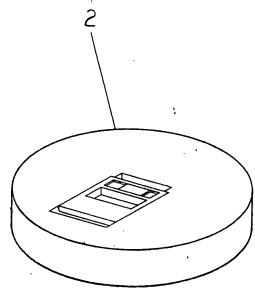




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| HOLE LOCATIONS FOR MOUNTING IN<br>H950 AND H951 CABINETS |                                     |       |
|----------------------------------------------------------|-------------------------------------|-------|
| AVAILABLE SPACE<br>RL02                                  | MOUNTING HOLES<br>(FROM DATUM HOLE) |       |
|                                                          | LOWER                               | UPPER |
| 5.25                                                     | 12                                  | 15    |
| 10.50                                                    | 21                                  | 24    |
| 15.75                                                    | 30                                  | 33    |
| 21.00                                                    | 39                                  | 42    |
| 26.25                                                    | 48                                  | 51    |
| 31.50                                                    | 57                                  | 60    |



WHEN TWO RL02'S  
ARE MOUNTED IN A  
CABINET THE POSITION  
OF THE SLIDE BRACKETS  
MUST BE ADJUSTED SO  
THAT THE BEZELS ARE PAR-  
ALLEL AND ALIGNED VERTICALLY.

SEE DETAIL "F"  
(SHEET 4)

5 REF

19 REF

REAR BRACKET: LOCATE  
AFTER ASSEMBLING  
SLIDE TO FRONT  
BRACKET

FRONT BRACKET:  
LOCATE SLIDE ON  
DIMPLE

SEE NOTE 7  
LOC AT REAR  
EDGE OF BEZEL

12 REF  
(QTY 2)  
4 PLACES

9 REF  
(QTY 2)  
4 PLACES

DATUM HOLE - HOLE LOCATIONS  
FOR H950 & H967 CABINETS ARE  
GIVEN IN TABLE ABOVE.

RL02-AK  
(SHOWN IN A H950 CAB.)

7. CONT  
D. SECURE DRIVE TO SLIDES USING  
SCREWS SUPPLIED. (SEE DETAIL "F",  
SHEET 4)  
TO REMOVE DRIVE, EXTEND SLIDES  
FULLY, REMOVE SCREWS, RELEASE  
LATCHES AND LIFT OFF.
8. FOR THE LAST DRIVE IN A SYSTEM, I/O  
CABLE PLUGS INTO EITHER SOCKET. TER-  
MINATOR (SUPPLIED WITH CONTROLLER)  
PLUGS INTO THE OTHER.
- NOTES CONT. ON SH. 2

H950 CAB  
(SHOWN FOR  
REFERENCE ONLY)

18 REF  
CABLE TIE AT  
MIDPOINT

SEE DETAIL "B"  
(SHEET 2)

3 REF

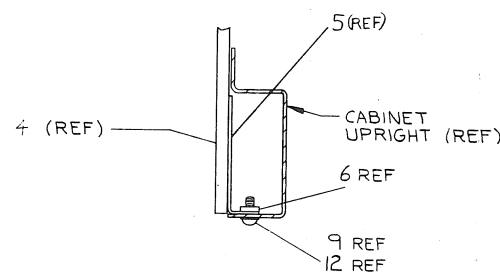
ALLOW 36.0 ± 1.0  
SERVICE LOOP BETWEEN  
CLAMPS

CABINET  
UPRIGHT  
(REF)

SEE NOTE 1  
VOLTAGE SELECTOR

SEE DETAIL "C"  
(SHEET 2)

REAR VIEW OF  
RL02-AK DISK DRIVE  
(ITEM 1)  
TYPICAL FOR ALL CABS  
NOTE 11



SECTION A-A  
(SHOWING TYPICAL MOUNTING  
OF CHASSIS SLIDES TO  
CABINET UPRIGHTS)  
SCALE: NONE

#### NOTES:

1. MACHINES ARE SHIPPED CONFIGURED FOR  
110 V, AND NOMINAL VOLTAGE RANGE. FOR  
220 V OPERATION REMOVE TWO SCREWS  
FROM "VOLTAGE SELECTOR" COVER WITH-  
DRAW THE COVER, AND REINSERT TURNED  
UPSIDE DOWN. AFTER INSERTION, 220  
MUST BE SHOWING THRU THE SMALL WIN-  
DOW. REPLACE THE TWO SCREWS, CUT  
OFF 110V PLUG ON THE POWER CORD,  
REPLACE BY 220 V PLUG (ITEM #20). FOR  
COLOR CODE SEE DETAIL "G", SHEET 4.
2. "LOW LINE" AND "NOMINAL LINE" ARE DE-  
FINED ON COVER OF "VOLTAGE RANGE  
SELECTOR" FOR LOW LINE VOLTAGE OP-  
ERATION REMOVE TWO SCREWS FROM  
"VOLTAGE RANGE SELECTOR" COVER, WITH-  
DRAW THE COVER AND RE-INSERT IT  
TURNED UPSIDE DOWN. AFTER INSERTION,  
"LOW" MUST BE SHOWING THRU THE SMALL  
WINDOW. REPLACE THE TWO SCREWS.
3. WHEN AN RL02-AK IS ORDERED IN CON-  
JUNCTION WITH H9500, H9501, H9502,  
H9503, H9600, H9601, H9602, H9603 INTER-  
LOCK KIT(S) (REF 21) OR CABLE RESTRAINT  
SYSTEM(S) (REF 22) MUST BE ORDERED  
AND INSTALLED.
4. WHEN AN RL02-AK IS ORDERED IN CON-  
JUNCTION WITH A H9503/H9603 THE TRIM  
PIECES (H9514-B) MUST BE ORDERED.
5. WHEN AN RL02-AK IS ORDERED IN CON-  
JUNCTION WITH A H9501/H9601 TRIM PIECES  
(H9514-A) MUST BE ORDERED.
6. TO ATTACH SHIPPING BRACKET (ITEM 7)  
REMOVE TWO SCREWS AND TWO LOCK-  
WASHERS FROM ONE SIDE OF THE POWER  
PANEL ON THE REAR OF DISK DRIVE (ITEM  
1), POSITION A SHIPPING BRACKET TO DE-  
TERMINE LOCATION OF "U" NUT (ITEM 13)  
AND ATTACH BRACKET USING ORIGINAL  
SCREWS AND LOCKWASHERS AND ITEMS  
12 AND 9 (AS SHOWN IN DETAIL "D") BRACKET  
MAY BE ATTACHED TO EITHER SIDE OF  
UNIT.
7. TO MOUNT RL02 IN CABINET:  
A. MOUNT BRACKETS AND SLIDES TO  
UPRIGHTS.  
B. EXTEND SLIDES AS FAR AS POSSIBLE  
BY RELEASING CATCHES. (SEE DETAIL  
"F" SHT 4)  
C. PLACE DRIVE ON SLIDES AND PUSH  
BACK UNTIL ENDS OF RAILS FIT UNDER  
TAB ON SLIDES AND LATCHES ENGAGE.

CAUTION: OFF SHEET PARTS LIST EXISTS.  
SEE K-PL-RL02-AK-DBP (Z0848).

|                                                     |                |                   |                                |
|-----------------------------------------------------|----------------|-------------------|--------------------------------|
| QUANTITY & VARIATION                                | DESCRIPTION    | DWG. PART NO.     | ITEM NO.                       |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES | ANGLES 90° 30' | CLASS OF ACCURACY | NOMINAL DIMENSION RANGE INCHES |
| SURFACE QUALITY IN MICROINCHES                      | CHECK ONE      | OVER 0.005        | OVER 0.005                     |
| PREFERRED                                           | MEDIUM         | 0.005 - 0.010     | 0.010 - 0.015                  |
|                                                     |                | 0.010 - 0.015     | 0.015 - 0.020                  |
|                                                     |                | 0.015 - 0.020     | 0.020 - 0.025                  |
|                                                     |                | 0.020 - 0.025     | 0.025 - 0.030                  |
|                                                     |                | 0.030 - 0.035     | 0.035 - 0.040                  |
|                                                     |                | 0.040 - 0.045     | 0.045 - 0.050                  |
|                                                     |                | 0.050 - 0.055     | 0.055 - 0.060                  |
|                                                     |                | 0.060 - 0.065     | 0.065 - 0.070                  |
|                                                     |                | 0.070 - 0.075     | 0.075 - 0.080                  |
|                                                     |                | 0.080 - 0.085     | 0.085 - 0.090                  |
|                                                     |                | 0.090 - 0.095     | 0.095 - 0.100                  |
|                                                     |                | 0.100 - 0.105     | 0.105 - 0.110                  |
|                                                     |                | 0.110 - 0.115     | 0.115 - 0.120                  |
|                                                     |                | 0.120 - 0.125     | 0.125 - 0.130                  |
|                                                     |                | 0.130 - 0.135     | 0.135 - 0.140                  |
|                                                     |                | 0.140 - 0.145     | 0.145 - 0.150                  |
|                                                     |                | 0.150 - 0.155     | 0.155 - 0.160                  |
|                                                     |                | 0.160 - 0.165     | 0.165 - 0.170                  |
|                                                     |                | 0.170 - 0.175     | 0.175 - 0.180                  |
|                                                     |                | 0.180 - 0.185     | 0.185 - 0.190                  |
|                                                     |                | 0.190 - 0.195     | 0.195 - 0.200                  |
|                                                     |                | 0.200 - 0.205     | 0.205 - 0.210                  |
|                                                     |                | 0.210 - 0.215     | 0.215 - 0.220                  |
|                                                     |                | 0.220 - 0.225     | 0.225 - 0.230                  |
|                                                     |                | 0.230 - 0.235     | 0.235 - 0.240                  |
|                                                     |                | 0.240 - 0.245     | 0.245 - 0.250                  |
|                                                     |                | 0.250 - 0.255     | 0.255 - 0.260                  |
|                                                     |                | 0.260 - 0.265     | 0.265 - 0.270                  |
|                                                     |                | 0.270 - 0.275     | 0.275 - 0.280                  |
|                                                     |                | 0.280 - 0.285     | 0.285 - 0.290                  |
|                                                     |                | 0.290 - 0.295     | 0.295 - 0.300                  |
|                                                     |                | 0.300 - 0.305     | 0.305 - 0.310                  |
|                                                     |                | 0.310 - 0.315     | 0.315 - 0.320                  |
|                                                     |                | 0.320 - 0.325     | 0.325 - 0.330                  |
|                                                     |                | 0.330 - 0.335     | 0.335 - 0.340                  |
|                                                     |                | 0.340 - 0.345     | 0.345 - 0.350                  |
|                                                     |                | 0.350 - 0.355     | 0.355 - 0.360                  |
|                                                     |                | 0.360 - 0.365     | 0.365 - 0.370                  |
|                                                     |                | 0.370 - 0.375     | 0.375 - 0.380                  |
|                                                     |                | 0.380 - 0.385     | 0.385 - 0.390                  |
|                                                     |                | 0.390 - 0.395     | 0.395 - 0.400                  |
|                                                     |                | 0.400 - 0.405     | 0.405 - 0.410                  |
|                                                     |                | 0.410 - 0.415     | 0.415 - 0.420                  |
|                                                     |                | 0.420 - 0.425     | 0.425 - 0.430                  |
|                                                     |                | 0.430 - 0.435     | 0.435 - 0.440                  |
|                                                     |                | 0.440 - 0.445     | 0.445 - 0.450                  |
|                                                     |                | 0.450 - 0.455     | 0.455 - 0.460                  |
|                                                     |                | 0.460 - 0.465     | 0.465 - 0.470                  |
|                                                     |                | 0.470 - 0.475     | 0.475 - 0.480                  |
|                                                     |                | 0.480 - 0.485     | 0.485 - 0.490                  |
|                                                     |                | 0.490 - 0.495     | 0.495 - 0.500                  |
|                                                     |                | 0.500 - 0.505     | 0.505 - 0.510                  |
|                                                     |                | 0.510 - 0.515     | 0.515 - 0.520                  |
|                                                     |                | 0.520 - 0.525     | 0.525 - 0.530                  |
|                                                     |                | 0.530 - 0.535     | 0.535 - 0.540                  |
|                                                     |                | 0.540 - 0.545     | 0.545 - 0.550                  |
|                                                     |                | 0.550 - 0.555     | 0.555 - 0.560                  |
|                                                     |                | 0.560 - 0.565     | 0.565 - 0.570                  |
|                                                     |                | 0.570 - 0.575     | 0.575 - 0.580                  |
|                                                     |                | 0.580 - 0.585     | 0.585 - 0.590                  |
|                                                     |                | 0.590 - 0.595     | 0.595 - 0.600                  |
|                                                     |                | 0.600 - 0.605     | 0.605 - 0.610                  |
|                                                     |                | 0.610 - 0.615     | 0.615 - 0.620                  |
|                                                     |                | 0.620 - 0.625     | 0.625 - 0.630                  |
|                                                     |                | 0.630 - 0.635     | 0.635 - 0.640                  |
|                                                     |                | 0.640 - 0.645     | 0.645 - 0.650                  |
|                                                     |                | 0.650 - 0.655     | 0.655 - 0.660                  |
|                                                     |                | 0.660 - 0.665     | 0.665 - 0.670                  |
|                                                     |                | 0.670 - 0.675     | 0.675 - 0.680                  |
|                                                     |                | 0.680 - 0.685     | 0.685 - 0.690                  |
|                                                     |                | 0.690 - 0.695     | 0.695 - 0.700                  |
|                                                     |                | 0.700 - 0.705     | 0.705 - 0.710                  |
|                                                     |                | 0.710 - 0.715     | 0.715 - 0.720                  |
|                                                     |                | 0.720 - 0.725     | 0.725 - 0.730                  |
|                                                     |                | 0.730 - 0.735     | 0.735 - 0.740                  |
|                                                     |                | 0.740 - 0.745     | 0.745 - 0.750                  |
|                                                     |                | 0.750 - 0.755     | 0.755 - 0.760                  |
|                                                     |                | 0.760 - 0.765     | 0.765 - 0.770                  |
|                                                     |                | 0.770 - 0.775     | 0.775 - 0.780                  |
|                                                     |                | 0.780 - 0.785     | 0.785 - 0.790                  |
|                                                     |                | 0.790 - 0.795     | 0.795 - 0.800                  |
|                                                     |                | 0.800 - 0.805     | 0.805 - 0.810                  |
|                                                     |                | 0.810 - 0.815     | 0.815 - 0.820                  |
|                                                     |                | 0.820 - 0.825     | 0.825 - 0.830                  |
|                                                     |                | 0.830 - 0.835     | 0.835 - 0.840                  |
|                                                     |                | 0.840 - 0.845     | 0.845 - 0.850                  |
|                                                     |                | 0.850 - 0.855     | 0.855 - 0.860                  |
|                                                     |                | 0.860 - 0.865     | 0.865 - 0.870                  |
|                                                     |                | 0.870 - 0.875     | 0.875 - 0.880                  |
|                                                     |                | 0.880 - 0.885     | 0.885 - 0.890                  |
|                                                     |                | 0.890 - 0.895     | 0.895 - 0.900                  |
|                                                     |                | 0.900 - 0.905     | 0.905 - 0.910                  |
|                                                     |                | 0.910 - 0.915     | 0.915 - 0.920                  |
|                                                     |                | 0.920 - 0.925     | 0.925 - 0.930                  |
|                                                     |                | 0.930 - 0.935     | 0.935 - 0.940                  |
|                                                     |                | 0.940 - 0.945     | 0.945 - 0.950                  |
|                                                     |                | 0.950 - 0.955     | 0.955 - 0.960                  |
|                                                     |                | 0.960 - 0.965     | 0.965 - 0.970                  |
|                                                     |                | 0.970 - 0.975     | 0.975 - 0.980                  |
|                                                     |                | 0.980 - 0.985     | 0.985 - 0.990                  |
|                                                     |                | 0.990 - 0.995     | 0.995 - 1.000                  |
|                                                     |                | 1.000 - 1.005     | 1.005 - 1.010                  |
|                                                     |                | 1.010 - 1.015     | 1.015 - 1.020                  |
|                                                     |                | 1.020 - 1.025     | 1.025 - 1.030                  |
|                                                     |                | 1.030 - 1.035     | 1.035 - 1.040                  |
|                                                     |                | 1.040 - 1.045     | 1.045 - 1.050                  |
|                                                     |                | 1.050 - 1.055     | 1.055 - 1.060                  |
|                                                     |                | 1.060 - 1.065     | 1.065 - 1.070                  |
|                                                     |                | 1.070 - 1.075     | 1.075 - 1.080                  |
|                                                     |                | 1.080 - 1.085     | 1.085 - 1.090                  |
|                                                     |                | 1.090 - 1.095     | 1.095 - 1.100                  |
|                                                     |                | 1.100 - 1.105     | 1.105 - 1.110                  |
|                                                     |                | 1.110 - 1.115     | 1.115 - 1.120                  |
|                                                     |                | 1.120 - 1.125     | 1.125 - 1.130                  |
|                                                     |                | 1.130 - 1.135     | 1.135 - 1.140                  |
|                                                     |                | 1.140 - 1.145     | 1.145 - 1.150                  |
|                                                     |                | 1.150 - 1.155     | 1.155 - 1.160                  |
|                                                     |                | 1.160 - 1.165     | 1.165 - 1.170                  |
|                                                     |                | 1.170 - 1.175     | 1.175 - 1.180                  |
|                                                     |                | 1.180 - 1.185     | 1.185 - 1.190                  |
|                                                     |                | 1.190 - 1.195     | 1.195 - 1.200                  |
|                                                     |                | 1.200 - 1.205     | 1.205 - 1.210                  |
|                                                     |                | 1.210 - 1.215     | 1.215 - 1.220                  |
|                                                     |                | 1.220 - 1.225     | 1.225 - 1.230                  |
|                                                     |                | 1.230 - 1.235     | 1.235 - 1.240                  |
|                                                     |                | 1.240 - 1.245     | 1.245 - 1.250                  |
|                                                     |                | 1.250 - 1.255     | 1.255 - 1.260                  |
|                                                     |                | 1.260 - 1.265     | 1.265 - 1.270                  |
|                                                     |                | 1.270 - 1.275     | 1.275 - 1.280                  |
|                                                     |                | 1.280 - 1.285     | 1.285 - 1.290                  |
|                                                     |                | 1.290 - 1.295     | 1.295 - 1.300                  |
|                                                     |                | 1.300 - 1.305     | 1.305 - 1.310                  |
|                                                     |                | 1.310 - 1.315     | 1.315 - 1.320                  |
|                                                     |                | 1.320 - 1.325     | 1.325 - 1.330                  |
|                                                     |                | 1.330 - 1.335     | 1.335 - 1.340                  |
|                                                     |                | 1.340 - 1.345     | 1.345 - 1.350                  |
|                                                     |                | 1.350 - 1.355     | 1.355 - 1.360                  |
|                                                     |                | 1.360 - 1.365     | 1.365 - 1.370                  |
|                                                     |                | 1.370 - 1.375     | 1.375 - 1.380                  |
|                                                     |                | 1.380 - 1.385     | 1.385 - 1.390                  |
|                                                     |                | 1.390 - 1.395     | 1.395 - 1.400                  |
|                                                     |                | 1.400 - 1.405     | 1.405 - 1.410                  |
|                                                     |                | 1.410 - 1.415     | 1.415 - 1.420                  |
|                                                     |                | 1.420 - 1.425     | 1.425 - 1.430                  |
|                                                     |                | 1.430 - 1.435     | 1.435 - 1.440                  |
|                                                     |                | 1.440 - 1.445     | 1.445 - 1.450                  |
|                                                     |                | 1.450 - 1.455     | 1.455 - 1.460                  |
|                                                     |                | 1.460 - 1.465     | 1.465 - 1.470                  |
|                                                     |                | 1.470 - 1.475     | 1.475 - 1.480                  |
|                                                     |                | 1.480 - 1.485     | 1.485 - 1.490                  |
|                                                     |                | 1.490 - 1.495     | 1.495 - 1.500                  |
|                                                     |                | 1.500 - 1.505     | 1.505 - 1.510                  |
|                                                     |                | 1.510 - 1.515     | 1.515 - 1.520                  |
|                                                     |                | 1.520 - 1.525     | 1.525 - 1.530                  |
|                                                     |                | 1.530 - 1.535     | 1.535 - 1.540                  |
|                                                     |                | 1.540 - 1.545     | 1.545 - 1.550                  |
|                                                     |                | 1.550 - 1.555     | 1.555 - 1.560                  |
|                                                     |                | 1.560 - 1.565     | 1.565 - 1.570                  |
|                                                     |                | 1.570 - 1.575     | 1.575 - 1.580                  |
|                                                     |                | 1.580 - 1.585     | 1.585 - 1.590                  |
|                                                     |                | 1.590 - 1.595     | 1.595 - 1.600                  |
|                                                     |                | 1.600 - 1.605     | 1.605 - 1.610                  |
|                                                     |                | 1.610 - 1.615     | 1.615 - 1.620                  |
|                                                     |                | 1.620 - 1.625     | 1.625 - 1.630                  |
|                                                     |                | 1.630 - 1.635     | 1.635 - 1.640                  |
|                                                     |                | 1.640 - 1.645     | 1.645 - 1.650                  |
|                                                     |                | 1.650 - 1.655     | 1.655 - 1.660                  |
|                                                     |                | 1.660 - 1.665     | 1.665 - 1.670                  |
|                                                     |                | 1.670 - 1.675     | 1.675 - 1.680                  |
|                                                     |                | 1.680 - 1.685     | 1.685 - 1.690                  |
|                                                     |                | 1.690 - 1.695     | 1.695 - 1.700                  |
|                                                     |                | 1.700 - 1.705     | 1.705 - 1.710                  |
|                                                     |                | 1.710 - 1.715     | 1.715 - 1.720                  |
|                                                     |                | 1.720 - 1.725     | 1.725 - 1.730                  |
|                                                     |                | 1.730 - 1.735     | 1.735 - 1.740                  |
|                                                     |                | 1.740 - 1.745     | 1.745 - 1.750                  |
|                                                     |                | 1.750 - 1.755     | 1.755 - 1.760                  |
|                                                     |                | 1.760 - 1.765     | 1.765 - 1.770                  |
|                                                     |                | 1.770 - 1.775     | 1.775 - 1.780                  |
|                                                     |                | 1.780 - 1.785     | 1.785 - 1.790                  |
|                                                     |                | 1.790 - 1.795     | 1.795 - 1.800                  |
|                                                     |                | 1.800 - 1.805     | 1.805 - 1.810                  |
|                                                     |                | 1.810 - 1.815     | 1.815 - 1.820                  |
|                                                     |                | 1.820 - 1.825     | 1.825 - 1.830                  |
|                                                     |                | 1.830 - 1.835     | 1.835 - 1.840                  |
|                                                     |                | 1.840 - 1.845     | 1.845 - 1.850                  |
|                                                     |                | 1.850 - 1.855     | 1.855 - 1.860                  |
|                                                     |                | 1.860 - 1.865     | 1.865 - 1.870                  |
|                                                     |                | 1.870 - 1.875     | 1.875 - 1.880                  |
|                                                     |                | 1.880 - 1.885     | 1.885 - 1.890                  |
|                                                     |                | 1.890 - 1.895     | 1.895 - 1.900                  |
|                                                     |                | 1.900 - 1.905     | 1.905 - 1.910                  |
|                                                     |                | 1.910 - 1.915     | 1.915 - 1.920                  |
|                                                     |                | 1.920 - 1.925     | 1.925 - 1.930                  |
|                                                     |                | 1.930 - 1.935     | 1.935 - 1.940                  |
|                                                     |                | 1.940 - 1.945     | 1.945 - 1.950                  |
|                                                     |                | 1.950 - 1.955     | 1.955 - 1.960                  |
|                                                     |                | 1.960 - 1.965     | 1.965 - 1.970                  |
|                                                     |                | 1.970 - 1.975     | 1.975 - 1.980                  |
|                                                     |                | 1.980 - 1.985     | 1.985 - 1.990                  |
|                                                     |                | 1.990 - 1.995     | 1.995 - 2.000                  |
|                                                     |                | 2.000 - 2.005     | 2.005 - 2.010                  |
|                                                     |                | 2.010 - 2.015     | 2.015 - 2.020                  |
|                                                     |                | 2.020 - 2.025     | 2.025 - 2.030                  |
|                                                     |                | 2.030 - 2.035     | 2.035 - 2.040                  |
|                                                     |                | 2.040 - 2.045     | 2.045 - 2.050                  |
|                                                     |                | 2.050 - 2.055     | 2.055 - 2.060                  |



NOTES: (CONT.)

9. CABINET OPTIONS INCLUDE SKINS, DOORS, COVERS, TRIM, & PWR CONTROLLERS.

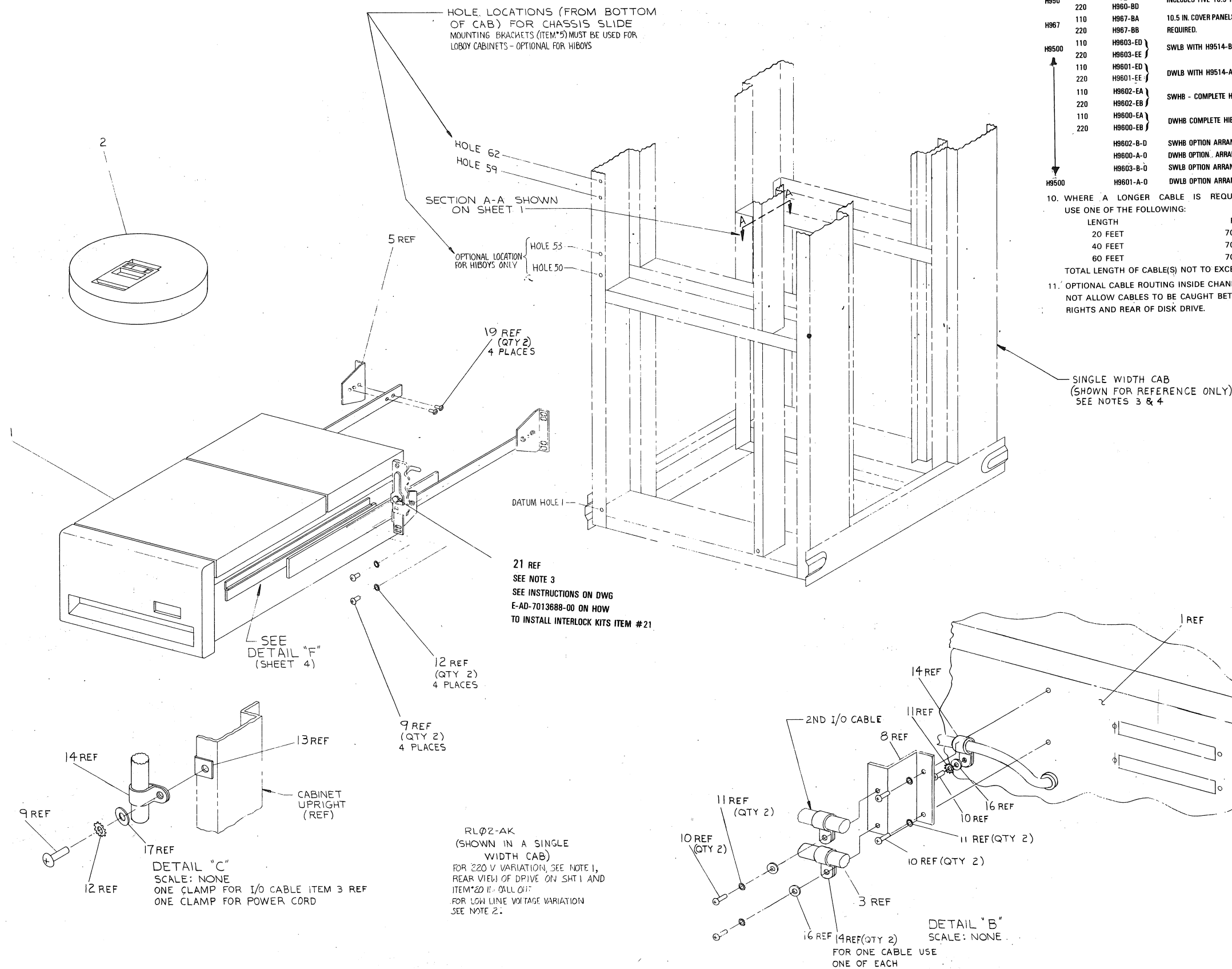
| TYPE  | VOLTAGE | DWG       | REMARKS                                                      |
|-------|---------|-----------|--------------------------------------------------------------|
| H950  | 110     | H960-BC   | INCLUDES FIVE 10.5 IN. PANELS                                |
|       | 220     | H960-BD   |                                                              |
| H967  | 110     | H967-BA   | 10.5 IN. COVER PANELS (H950-DA) MUST BE ORDERED IF REQUIRED. |
|       | 220     | H967-BB   |                                                              |
| H9500 | 110     | H9603-ED  | SWLB WITH H9514-B TOP COVERS.                                |
|       | 220     | H9603-EE  |                                                              |
|       | 110     | H9601-ED  | DWLB WITH H9514-A TOP COVERS.                                |
|       | 220     | H9601-EE  |                                                              |
|       | 110     | H9602-EA  | SWHB - COMPLETE HIBOY CABINET                                |
|       | 220     | H9602-EB  |                                                              |
|       | 110     | H9600-EA  | DWHB COMPLETE HIBOY CABINET                                  |
|       | 220     | H9600-EB  |                                                              |
| H9500 |         | H9602-B-D | SWHB OPTION ARRANGEMENT DWG. ORDER AS REQ'D                  |
|       |         | H9600-A-D | DWHB OPTION ARRANGEMENT DWG. ORDER AS REQ'D                  |
|       |         | H9603-B-D | SWLB OPTION ARRANGEMENT DWG. ORDER AS REQ'D                  |
|       |         | H9601-A-D | DWLB OPTION ARRANGEMENT DWG. ORDER AS REQ'D                  |

10. WHERE A LONGER CABLE IS REQUIRED THAN ITEM #3 USE ONE OF THE FOLLOWING:

| LENGTH  | PART. NO.  |
|---------|------------|
| 20 FEET | 7012122-20 |
| 40 FEET | 7012122-40 |
| 60 FEET | 7012122-60 |

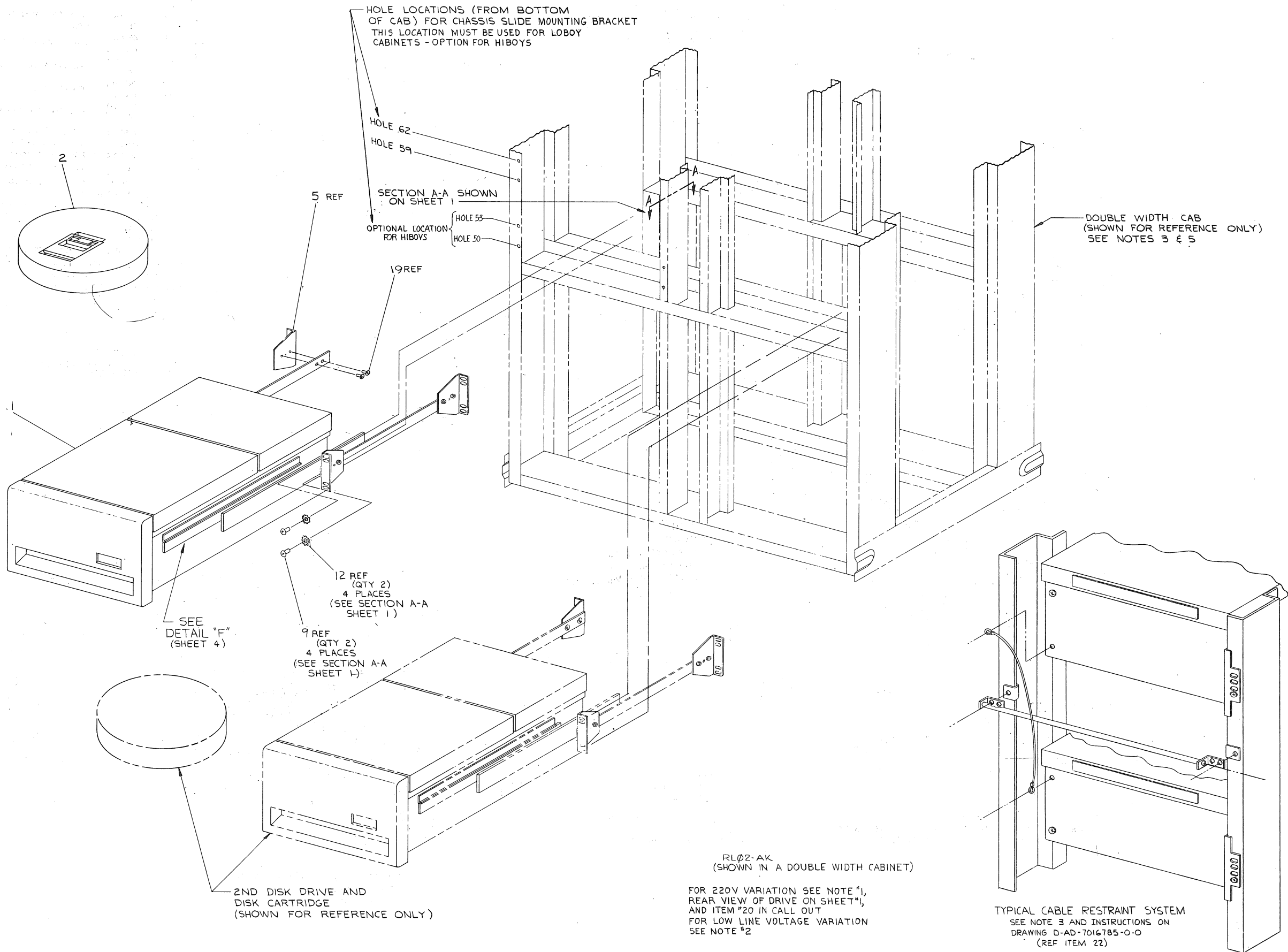
TOTAL LENGTH OF CABLE(S) NOT TO EXCEED 100 FEET

11. OPTIONAL CABLE ROUTING INSIDE CHANNEL UPRIGHTS. DO NOT ALLOW CABLES TO BE CAUGHT BETWEEN CABINET UPRIGHTS AND REAR OF DISK DRIVE.



| REV | NO. | DATE | BY | CHK | CHANGE NO. | REV. |
|-----|-----|------|----|-----|------------|------|
|     |     |      |    |     |            |      |

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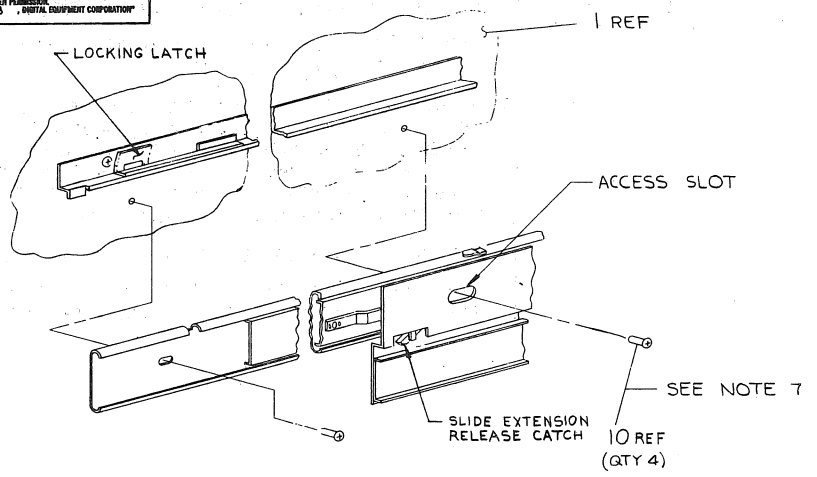


| REVISIONS |            |      |
|-----------|------------|------|
| CHK       | CHANGE NO. | REV. |
|           |            |      |

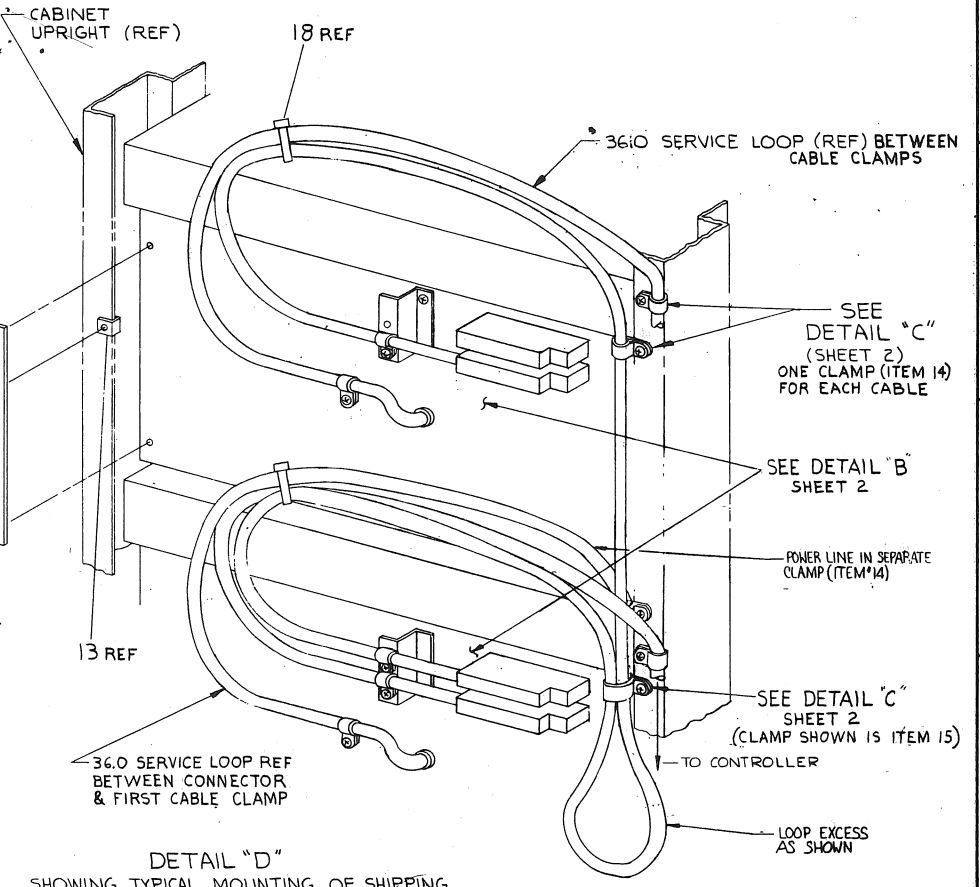
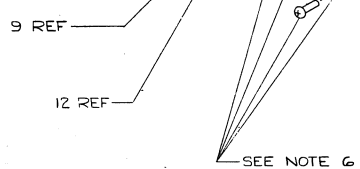
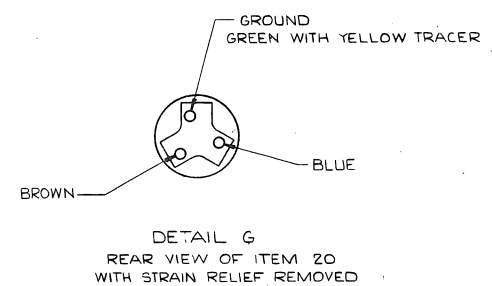
|                                      |              |                |                   |        |
|--------------------------------------|--------------|----------------|-------------------|--------|
| TITLE DISK DRIVE MTG KIT & CARTRIDGE |              | SIZE CODE E UA | NUMBER RL 02-AK-0 | REV. C |
| SCALE NONE                           | SHEET 3 OF 4 | DIST.          |                   |        |

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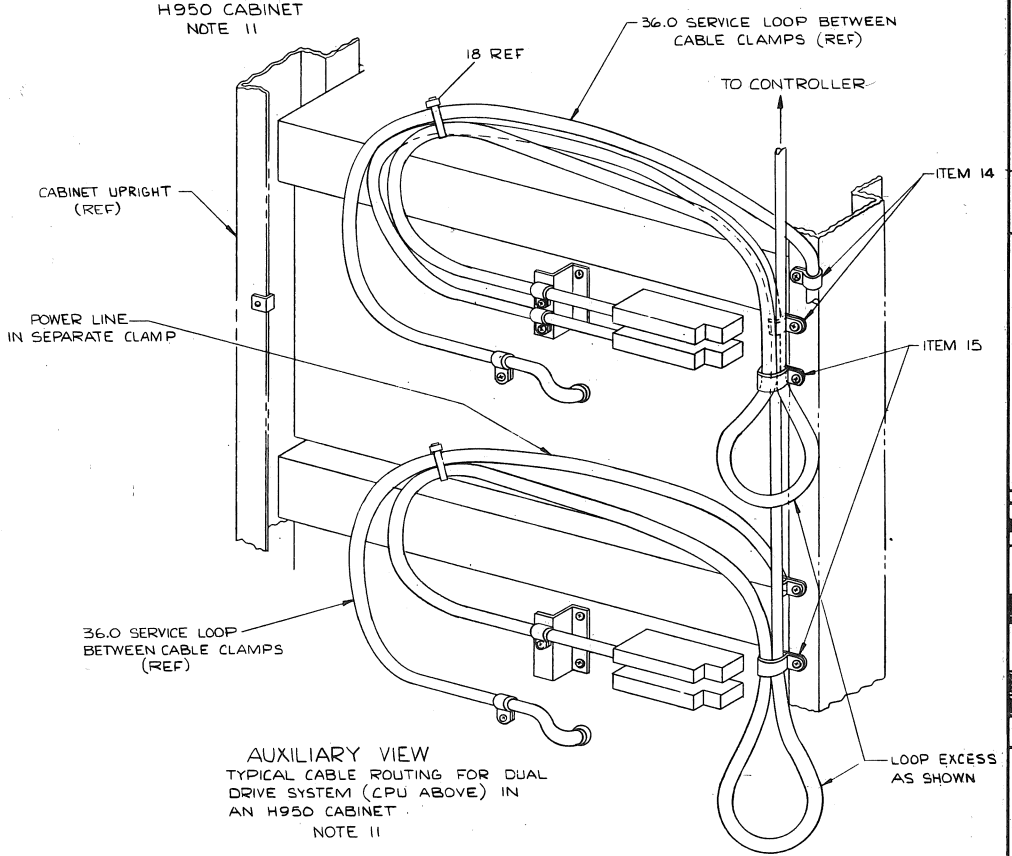
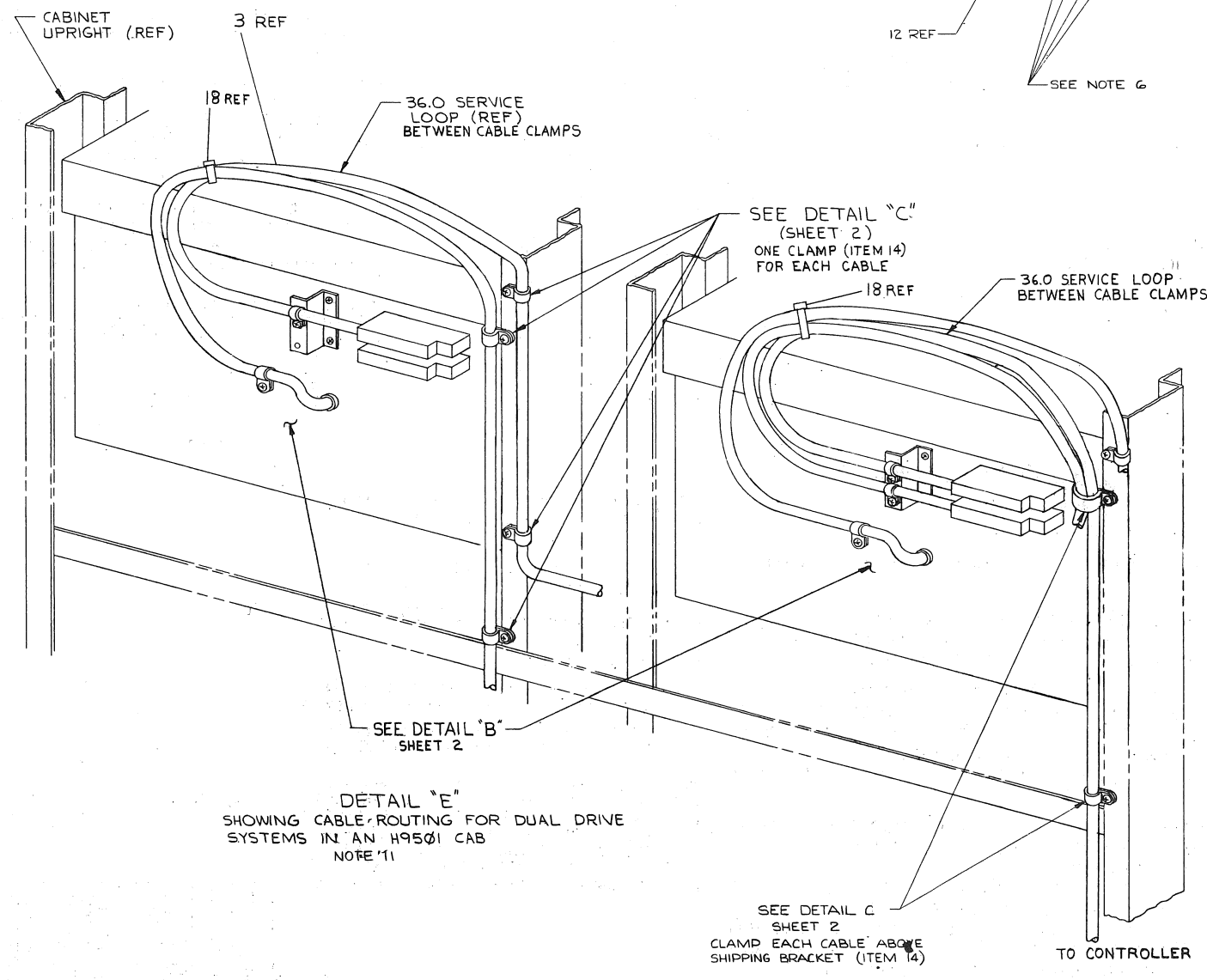
J  
H  
F  
E  
D  
C  
B  
A



DETAIL 'F'  
SEE NOTE 7



DETAIL 'D'  
SHOWING TYPICAL MOUNTING OF SHIPPING BRKT (ITEM 7) AND CABLE ROUTING FOR DUAL DRIVE SYSTEM (CPU BELOW) IN AN H950 CABINET  
NOTE 11



| REV. | CHANGE NO. | REV. |
|------|------------|------|
| 1    |            |      |

UARL02-AK-0

A

|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| A | B | C | D | E | F | G | H | I | J |
|---|---|---|---|---|---|---|---|---|---|



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| A | B | C | D | E | F | G | H | I | J |
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| A | B | C | D | E | F | G | H | I | J |
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| A | B | C | D | E | F | G | H | I | J |
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|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| A | B | C | D | E | F | G | H | I | J |
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|---|---|---|---|---|---|---|---|---|---|
| A | B | C | D | E | F | G | H | I | J |
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|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| A | B | C | D | E | F | G | H | I | J |
|---|---|---|---|---|---|---|---|---|---|

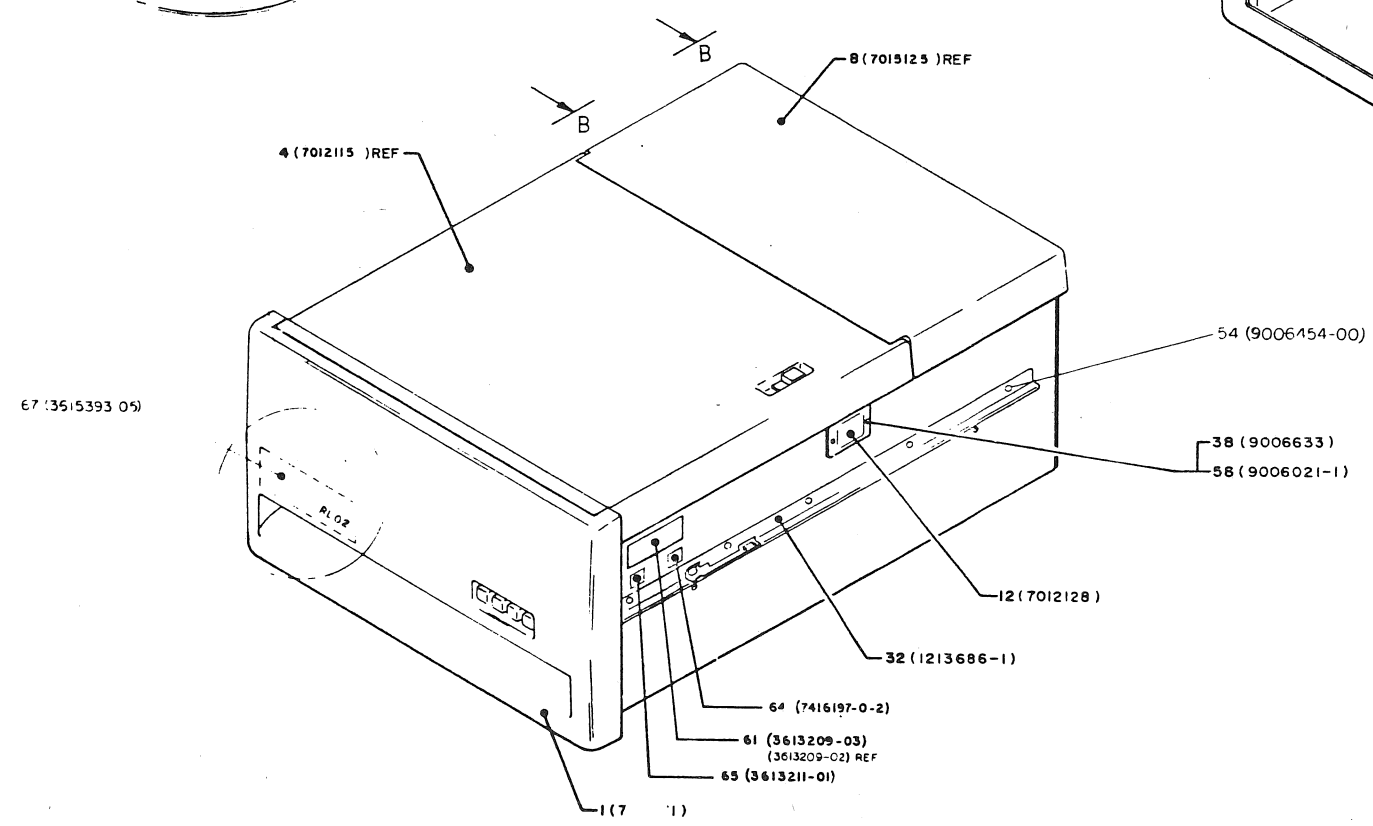
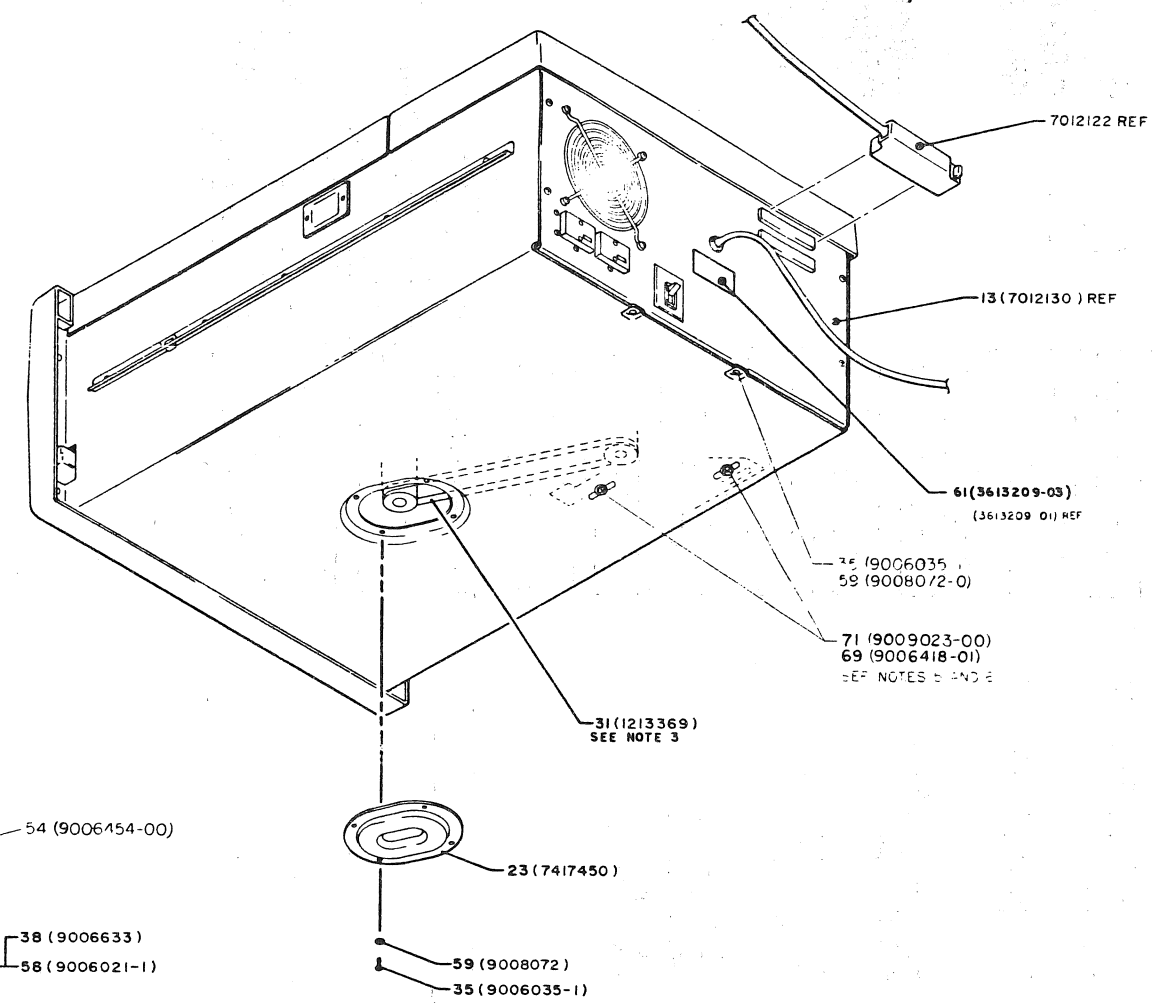
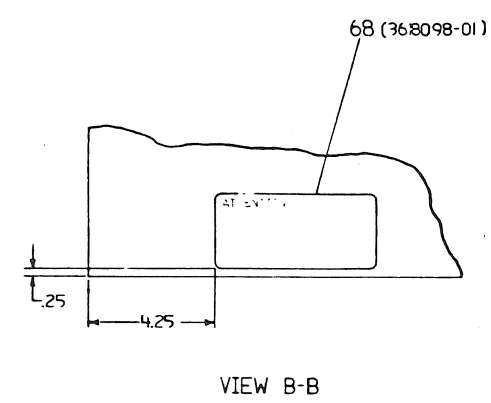
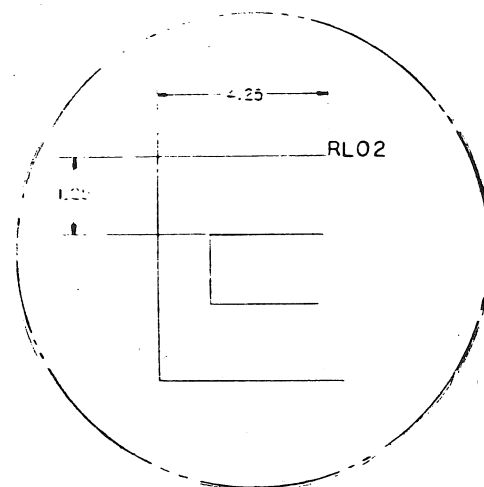
|   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|
| A | B | C | D | E | F | G | H | I | J |
|---|---|---|---|---|---|---|---|---|---|



NOTES

1. LOWER HEAD (ITEM 651) SHALL BE POSITIONED REARWARDS AGAINST PIN IN CARRIAGE
2. ALL SCREWS TO BE TIGHTENED AS FOLLOWS:

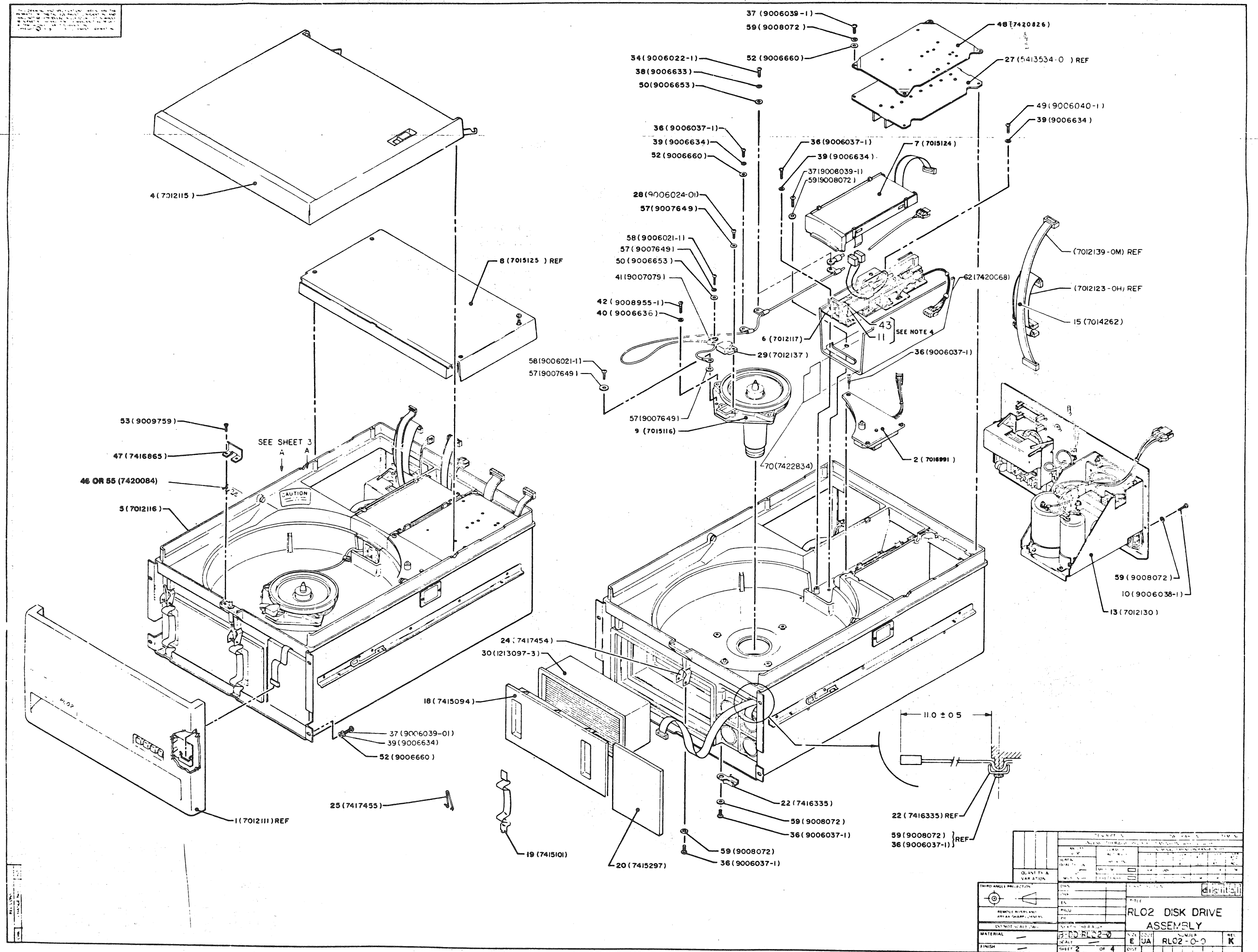
|       |        |        |                |        |
|-------|--------|--------|----------------|--------|
| 4-40  | SCREW, | TORQUE | $3.5 \pm 0.5$  | IN LBS |
| 6-32  | "      | "      | $5.0 \pm 1.0$  | "      |
| 8-32  | "      | "      | $10.0 \pm 1.0$ | "      |
| 10-32 | "      | "      | $18.0 \pm 2.0$ | "      |
3. DRIVE BELT TENSION  $10.0 \pm 1.0$  LBS.
4. 4-40 HEAD MOUNTING BOLTS TO BE TIGHTENED TO  $5.5$  IN. LBS.
5. TORQUE 8-32 SELF TAPPING HARDWARE (ITEM 69) TO  $.6-18$  IN. LBS.
6. BLOWER HOUSING SECURING HARDWARE TO BE REMOVED BEFORE OPERATING UNIT.



**CAUTION**  
OFF-SHEET PARTS LIST EXISTS.  
SEE K-PL PL02-0-DBF (Z0485).

[illegible][illegible]

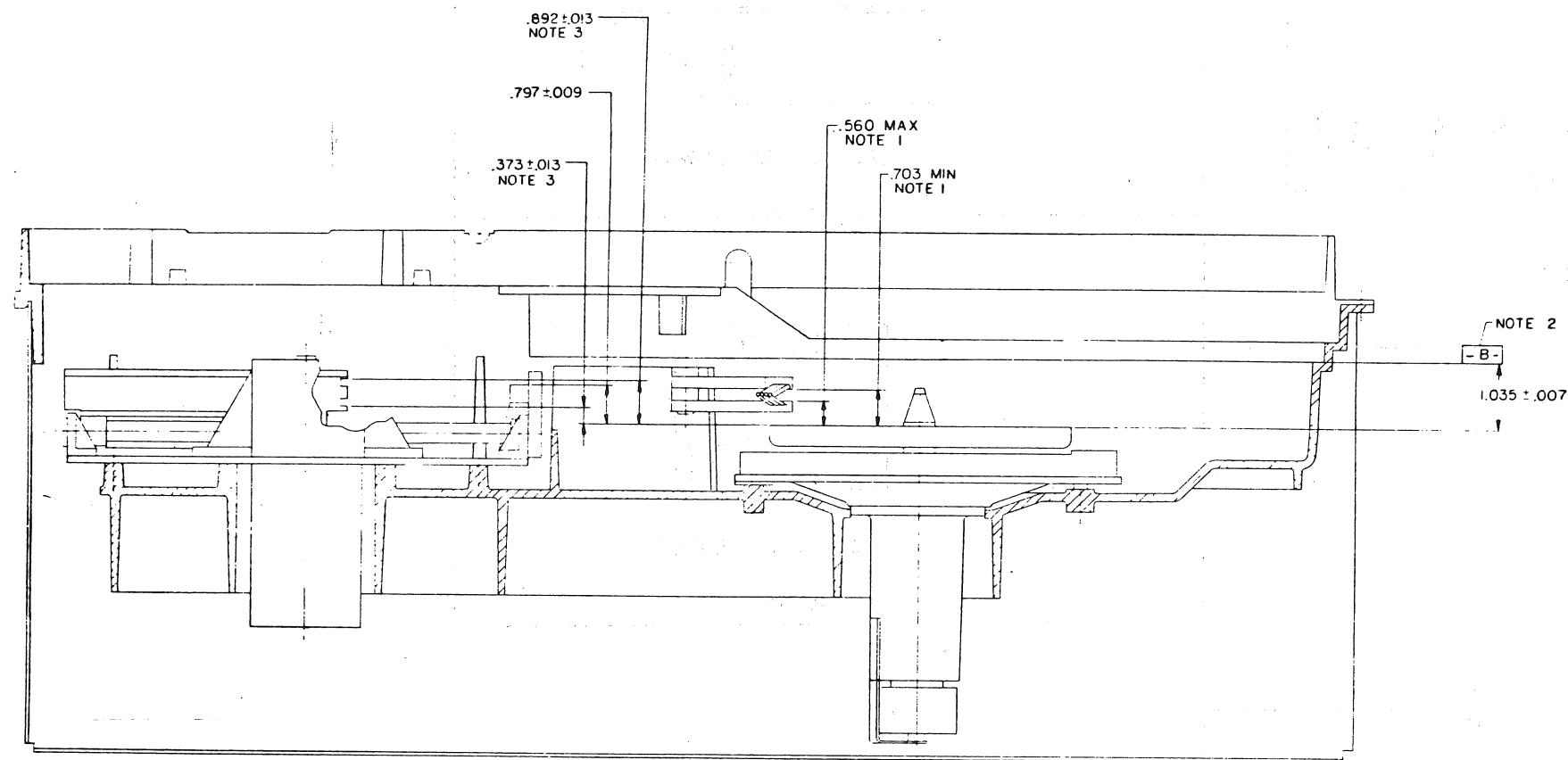




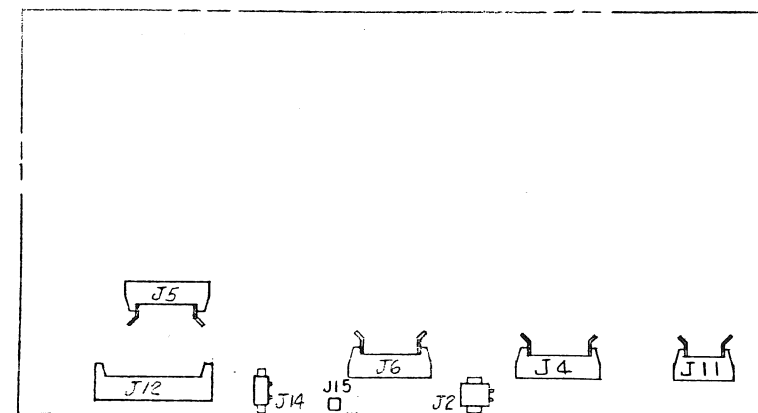




1. DIMENSION APPLIES TO HIGHEST OR LOWEST POINT ALONG BRUSH ARM OR BLOCK OF BRUSH.
2. 3. TOOLING POINTS. SEE DRAWING 7416846 OR 7415237.
3. DIMENSION HAS TO BE WITHIN .004 AT BOTH EXTREMES OF CARRIAGE TRAVEL.

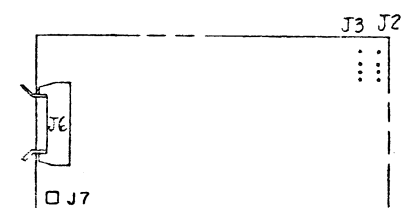


|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                    |  |              |  |         |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------|--|--------------|--|---------|--|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | DESCRIPTION                                        |  | QTY: PART NO |  | ITEM NO |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | UNLESS OTHERWISE SPECIFIED MATERIALS ARE IN INCHES |  |              |  |         |  |
| DIMENSIONS<br>1/16" 3/32" 1/8" 1/4" 3/8" 1/2" 5/8" 3/4" 7/8" 1" 1 1/8" 1 1/4" 1 1/2" 1 3/4" 2" 2 1/4" 2 1/2" 2 3/4" 3" 3 1/4" 3 1/2" 3 3/4" 4" 4 1/4" 4 1/2" 4 3/4" 5" 5 1/4" 5 1/2" 5 3/4" 6" 6 1/4" 6 1/2" 6 3/4" 7" 7 1/4" 7 1/2" 7 3/4" 8" 8 1/4" 8 1/2" 8 3/4" 9" 9 1/4" 9 1/2" 9 3/4" 10" 10 1/4" 10 1/2" 10 3/4" 11" 11 1/4" 11 1/2" 11 3/4" 12" 12 1/4" 12 1/2" 12 3/4" 13" 13 1/4" 13 1/2" 13 3/4" 14" 14 1/4" 14 1/2" 14 3/4" 15" 15 1/4" 15 1/2" 15 3/4" 16" 16 1/4" 16 1/2" 16 3/4" 17" 17 1/4" 17 1/2" 17 3/4" 18" 18 1/4" 18 1/2" 18 3/4" 19" 19 1/4" 19 1/2" 19 3/4" 20" 20 1/4" 20 1/2" 20 3/4" 21" 21 1/4" 21 1/2" 21 3/4" 22" 22 1/4" 22 1/2" 22 3/4" 23" 23 1/4" 23 1/2" 23 3/4" 24" 24 1/4" 24 1/2" 24 3/4" 25" 25 1/4" 25 1/2" 25 3/4" 26" 26 1/4" 26 1/2" 26 3/4" 27" 27 1/4" 27 1/2" 27 3/4" 28" 28 1/4" 28 1/2" 28 3/4" 29" 29 1/4" 29 1/2" 29 3/4" 30" 30 1/4" 30 1/2" 30 3/4" 31" 31 1/4" 31 1/2" 31 3/4" 32" 32 1/4" 32 1/2" 32 3/4" 33" 33 1/4" 33 1/2" 33 3/4" 34" 34 1/4" 34 1/2" 34 3/4" 35" 35 1/4" 35 1/2" 35 3/4" 36" 36 1/4" 36 1/2" 36 3/4" 37" 37 1/4" 37 1/2" 37 3/4" 38" 38 1/4" 38 1/2" 38 3/4" 39" 39 1/4" 39 1/2" 39 3/4" 40" 40 1/4" 40 1/2" 40 3/4" 41" 41 1/4" 41 1/2" 41 3/4" 42" 42 1/4" 42 1/2" 42 3/4" 43" 43 1/4" 43 1/2" 43 3/4" 44" 44 1/4" 44 1/2" 44 3/4" 45" 45 1/4" 45 1/2" 45 3/4" 46" 46 1/4" 46 1/2" 46 3/4" 47" 47 1/4" 47 1/2" 47 3/4" 48" 48 1/4" 48 1/2" 48 3/4" 49" 49 1/4" 49 1/2" 49 3/4" 50" 50 1/4" 50 1/2" 50 3/4" 51" 51 1/4" 51 1/2" 51 3/4" 52" 52 1/4" 52 1/2" 52 3/4" 53" 53 1/4" 53 1/2" 53 3/4" 54" 54 1/4" 54 1/2" 54 3/4" 55" 55 1/4" 55 1/2" 55 3/4" 56" 56 1/4" 56 1/2" 56 3/4" 57" 57 1/4" 57 1/2" 57 3/4" 58" 58 1/4" 58 1/2" 58 3/4" 59" 59 1/4" 59 1/2" 59 3/4" 60" 60 1/4" 60 1/2" 60 3/4" 61" 61 1/4" 61 1/2" 61 3/4" 62" 62 1/4" 62 1/2" 62 3/4" 63" 63 1/4" 63 1/2" 63 3/4" 64" 64 1/4" 64 1/2" 64 3/4" 65" 65 1/4" 65 1/2" 65 3/4" 66" 66 1/4" 66 1/2" 66 3/4" 67" 67 1/4" 67 1/2" 67 3/4" 68" 68 1/4" 68 1/2" 68 3/4" 69" 69 1/4" 69 1/2" 69 3/4" 70" 70 1/4" 70 1/2" 70 3/4" 71" 71 1/4" 71 1/2" 71 3/4" 72" 72 1/4" 72 1/2" 72 3/4" 73" 73 1/4" 73 1/2" 73 3/4" 74" 74 1/4" 74 1/2" 74 3/4" 75" 75 1/4" 75 1/2" 75 3/4" 76" 76 1/4" 76 1/2" 76 3/4" 77" 77 1/4" 77 1/2" 77 3/4" 78" 78 1/4" 78 1/2" 78 3/4" 79" 79 1/4" 79 1/2" 79 3/4" 80" 80 1/4" 80 1/2" 80 3/4" 81" 81 1/4" 81 1/2" 81 3/4" 82" 82 1/4" 82 1/2" 82 3/4" 83" 83 1/4" 83 1/2" 83 3/4" 84" 84 1/4" 84 1/2" 84 3/4" 85" 85 1/4" 85 1/2" 85 3/4" 86" 86 1/4" 86 1/2" 86 3/4" 87" 87 1/4" 87 1/2" 87 3/4" 88" 88 1/4" 88 1/2" 88 3/4" 89" 89 1/4" 89 1/2" 89 3/4" 90" 90 1/4" 90 1/2" 90 3/4" 91" 91 1/4" 91 1/2" 91 3/4" 92" 92 1/4" 92 1/2" 92 3/4" 93" 93 1/4" 93 1/2" 93 3/4" 94" 94 1/4" 94 1/2" 94 3/4" 95" 95 1/4" 95 1/2" 95 3/4" 96" 96 1/4" 96 1/2" 96 3/4" 97" 97 1/4" 97 1/2" 97 3/4" 98" 98 1/4" 98 1/2" 98 3/4" 99" 99 1/4" 99 1/2" 99 3/4" 100" 100 1/4" 100 1/2" 100 3/4" 101" 101 1/4" 101 1/2" 101 3/4" 102" 102 1/4" 102 1/2" 102 3/4" 103" 103 1/4" 103 1/2" 103 3/4" 104" 104 1/4" 104 1/2" 104 3/4" 105" 105 1/4" 105 1/2" 105 3/4" 106" 106 1/4" 106 1/2" 106 3/4" 107" 107 1/4" 107 1/2" 107 3/4" 108" 108 1/4" 108 1/2" 108 3/4" 109" 109 1/4" 109 1/2" 109 3/4" 110" 110 1/4" 110 1/2" 110 3/4" 111" 111 1/4" 111 1/2" 111 3/4" 112" 112 1/4" 112 1/2" 112 3/4" 113" 113 1/4" 113 1/2" 113 3/4" 114" 114 1/4" 114 1/2" 114 3/4" 115" 115 1/4" 115 1/2" 115 3/4" 116" 116 1/4" 116 1/2" 116 3/4" 117" 117 1/4" 117 1/2" 117 3/4" 118" 118 1/4" 118 1/2" 118 3/4" 119" 119 1/4" 119 1/2" 119 3/4" 120" 120 1/4" 120 1/2" 120 3/4" 121" 121 1/4" 121 1/2" 121 3/4" 122" 122 1/4" 122 1/2" 122 3/4" 123" 123 1/4" 123 1/2" 123 3/4" 124" 124 1/4" 124 1/2" 124 3/4" 125" 125 1/4" 125 1/2" 125 3/4" 126" 126 1/4" 126 1/2" 126 3/4" 127" 127 1/4" 127 1/2" 127 3/4" 128" 128 1/4" 128 1/2" 128 3/4" 129" 129 1/4" 129 1/2" 129 3/4" 130" 130 1/4" 130 1/2" 130 3/4" 131" 131 1/4" 131 1/2" 131 3/4" 132" 132 1/4" 132 1/2" 132 3/4" 133" 133 1/4" 133 1/2" 133 3/4" 134" 134 1/4" 134 1/2" 134 3/4" 135" 135 1/4" 135 1/2" 135 3/4" 136" |  |                                                    |  |              |  |         |  |



LOGIC BOARD

FIG 1



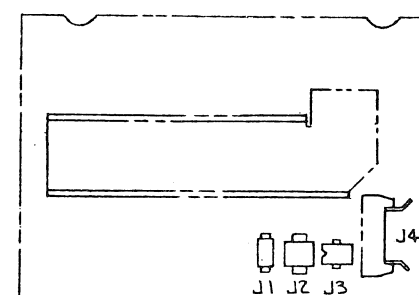
R/W BOARD

FIG. 2



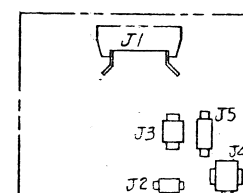
FRONT PANEL BOARD

FIG 3



D.C. SERVO BOARD

FIG 4



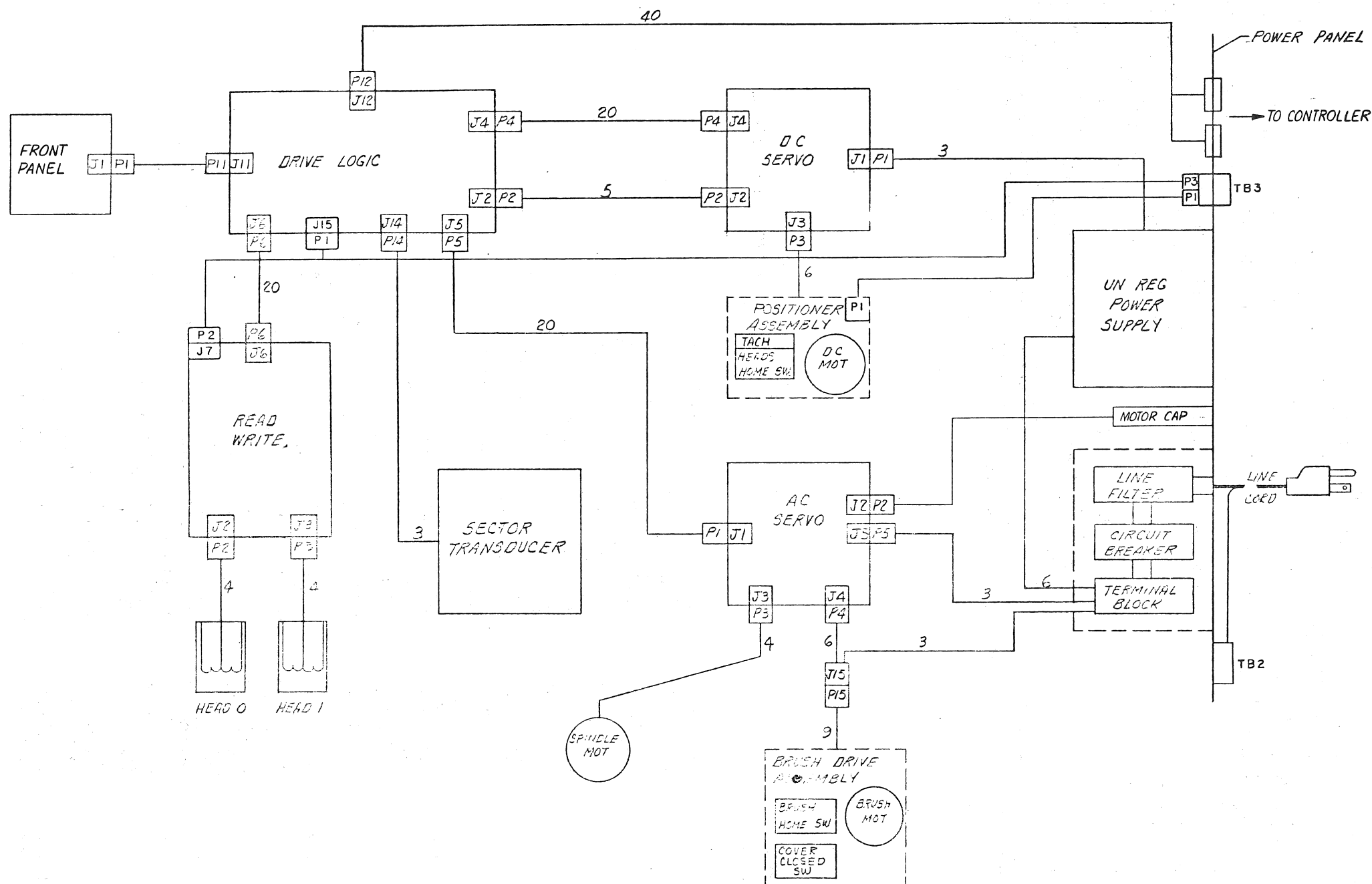
## A.C. SERVO BOARD

FIG 5

|            | A          | B          | C |
|------------|------------|------------|---|
| PL02-CX001 | PL02-CX008 | PL02-CX010 |   |
| B. MILLER  | K. GUENZEL | M. ZARICH  |   |

|                                      |  |                            |  |                           |  |                                                     |  |                 |  |                 |  |                  |  |
|--------------------------------------|--|----------------------------|--|---------------------------|--|-----------------------------------------------------|--|-----------------|--|-----------------|--|------------------|--|
|                                      |  |                            |  |                           |  | DESCRIPTION                                         |  | DWG. PART NO.   |  | ITEM NO.        |  |                  |  |
|                                      |  |                            |  |                           |  | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |  |                 |  |                 |  |                  |  |
| QUANTITY & VARIATION                 |  | ANGLES<br>30° 30'          |  | CLASS OF ACCURACY         |  | NOMINAL DIMENSIONS RADIUS INCHES                    |  |                 |  |                 |  |                  |  |
|                                      |  | SURFACE QUALITY IN         |  | (CHECK ONE)               |  | OVER 0 TO 0.2                                       |  | OVER 0.2 TO 1.2 |  | OVER 1.2 TO 4.0 |  | OVER 4.0 TO 80.0 |  |
|                                      |  | ✓                          |  | MEDIUM                    |  | ±0.04                                               |  | ±0.08           |  | ±0.12           |  | ±0.16            |  |
|                                      |  | MATERIAL                   |  | PREPARED                  |  | ±0.12                                               |  | ±0.16           |  | ±0.24           |  | ±0.31            |  |
| THIRD ANGLE PROJECTION               |  |                            |  | DRN. R. Michael 25 SEP 78 |  | FIRST USED ON                                       |  | RL02            |  | digital         |  |                  |  |
| REMOVE BURRS AND BREAK SHARP CORNERS |  |                            |  | CHKD. W. M. 3 MAY 79      |  | TITLE                                               |  | RL02            |  | SYSTEM CABLING  |  |                  |  |
| DO NOT SCALE DWS                     |  | FACILENG. B. GLOVER 5-4-79 |  | ENG. R. G. 5-4-79         |  |                                                     |  |                 |  |                 |  |                  |  |
|                                      |  | PROD. D. 5-4-79            |  |                           |  |                                                     |  |                 |  |                 |  |                  |  |
| MATERIAL                             |  | B-DD-RL02-0                |  | SIZE CODE                 |  | D IC                                                |  | NUMBER          |  | RL02-0-3        |  | REV C            |  |
| FINISH                               |  | SHEET 1 OF 2               |  | DST.                      |  |                                                     |  |                 |  |                 |  |                  |  |

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| QUANTITY & VARIATION                 |  | DESCRIPTION                                         |  | DWG. PART NO. |  | ITEM NO. |  |
|--------------------------------------|--|-----------------------------------------------------|--|---------------|--|----------|--|
| THIRD ANGLE PROJECTION               |  | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |  | RL02          |  | A        |  |
| REMOVE BURRS AND BREAK SHARP CORNERS |  | PROJ. ENG.                                          |  | RL02          |  | A        |  |
| BY MANUFACTURING                     |  | NEXT HIGHER ASSY                                    |  | RL02          |  | A        |  |
| MATERIAL                             |  | B-DD-RL02-0                                         |  | SIZE          |  | D        |  |
| FINISH                               |  | SCALE                                               |  | CODE          |  | C        |  |
|                                      |  | REV                                                 |  | NUMBER        |  | REV      |  |
|                                      |  | C                                                   |  | RL02-0-3      |  | C        |  |

| LINE ITEM | DOCUMENT NUMBER  | PART NUMBER | DESCRIPTION                    | QUANTITY PER VARIATION |
|-----------|------------------|-------------|--------------------------------|------------------------|
| 1         | D-AD-7012111-0-0 | 7012111-00  | BEZEL ASSY                     | 1                      |
| 2         | D-AD-7012112-0-0 | 7012112-00  | BRUSH DRIVE ASSY               | 1                      |
| 3         | E-AD-7012114-0-0 | 7012114-00  | DISK MOTOR ASSY                | 1                      |
| 4         | E-AD-7012115-0-0 | 7012115-00  | FRONT COVER ASSY               | 1                      |
| 5         | E-AD-7012116-0-0 | 7012116-00  | MAIN CHASSIS ASSY              | 1                      |
| 6         | D-AD-7012117-0-0 | 7012117-00  | POSITIONER ASSY                | 1                      |
| 7         | D-AD-7015124-0-0 | 7015124-00  | RLO2 R/W BOX ASSY              | 1                      |
| 8         | D-AD-7015125-0-0 | 7015125-00  | RLO2 REAR COVER ASSY           | 1                      |
| 9         | D-AD-7015116-0-0 | 7015116-00  | SPINDLE ASSY                   | 1                      |
| 10        |                  | 9006038-01  | SCREW,PAN,PHIL 8-32X 7/16 SS   | 4                      |
| 11        | D-IA-7015637-0-0 | 7015637-00  | RLO2 DATA HEAD "A"UP           | 1                      |
| 12        | B-AD-7012128-0-0 | 7012128-00  | ACCESS COVER ASSEMBLY          | 1                      |
| 13        | D-AD-7012130-0-0 | 7012130-00  | POWER PANEL ASSEMBLY           | 1                      |
| 14        | B-IA-7012139-0-0 | 7012139-0F  | INTERCONNECT CABLE             | 2                      |
| 15        | B-IA-7014262-0-0 | 7014262-00  | INTERCONNECT CABLE ASSEMBLY    | 1                      |
| 16        | C-IA-7012140-0-0 | 7012140-00  | POWER HARNESS DC               | 1                      |
| 17        | B-IA-7012107-0-0 | 7012107-3D  | INTERCONNECT CABLE             | 1                      |
| 18        | D-MD-7415094-0-0 | 7415094-00  | REAR COVER                     | 1                      |
| 19        | C-MD-7415101-0-0 | 7415101-00  | SPRING, PLENUM COVER           | 2                      |
| 20        | C-MD-7415297-0-0 | 7415297-00  | FILTER,PAD                     | 1                      |
| 21        | C-MD-7415303-0-0 | 7415303-00  | COVER AC SERVO                 | 1                      |
| 22        | C-MD-7416335-0-0 | 7416335-00  | CABLE RETAINER                 | 1                      |
| 23        | D-MD-7417450-0-0 | 7417450-00  | HATCH                          | 1                      |
| 24        | C-MD-7417454-0-0 | 7417454-00  | BRACKET PLENUM                 | 2                      |
| 25        | C-MD-7417455-0-0 | 7417455-00  | LATCH PLENUM                   | 2                      |
| 26        | D-UA-5411848-0-0 | 5411848-00  | ETCH BRD 54-11848              | 1                      |
| 27        | D-UA-5413534-0-0 | 5413534-00  | DC SERVO + POWER SUPPLY (RLO2) | 1                      |
| 28        |                  | 9006024-01  | SCREW,PAN,PHIL 6-32X 1/2 SS    | 2                      |
| 29        | D-AD-7012137-0-0 | 7012137-00  | TRANSUDUCER ASSY               | 1                      |
| 30        |                  | 1213097-00  | FILTER,AIR,HEFA,33CFM          | 1                      |

| REVISION HISTORY |             |     | BASIC PART NO:                  |    | ORLO2 |  | DRN: |  | W.GRIMES |  | DATE: 15 FEB 78 |  | TITLE |  | PARTS LIST |  |
|------------------|-------------|-----|---------------------------------|----|-------|--|------|--|----------|--|-----------------|--|-------|--|------------|--|
| ENG              | ECO NUMBER  | REV | SECTION A                       | OF | A     |  |      |  |          |  |                 |  |       |  |            |  |
| ---              | RL02-CZ002  | A   | SECTION, VARIATION INDEX:CHK'D: |    |       |  |      |  |          |  |                 |  |       |  |            |  |
| BM               | RL02-CX003  | B   | LAJ OO                          |    |       |  |      |  |          |  |                 |  |       |  |            |  |
| BM               | RL02-CX004  | C   |                                 |    |       |  |      |  |          |  |                 |  |       |  |            |  |
| KG               | RL02-CX006A | D   | DES.ENG.: B.MILLER              |    |       |  |      |  |          |  |                 |  |       |  |            |  |
| KG               | RL02-CX008  | E   |                                 |    |       |  |      |  |          |  |                 |  |       |  |            |  |
| KG               | RL02-CX009  | F   | RESP.ENG.: B.MILLER             |    |       |  |      |  |          |  |                 |  |       |  |            |  |
| MZ               | RL02-CX010  | H   |                                 |    |       |  |      |  |          |  |                 |  |       |  |            |  |
|                  |             | I   | SIZE CODE: NUMBER               |    |       |  |      |  |          |  |                 |  |       |  |            |  |
|                  |             | J   | REV                             |    |       |  |      |  |          |  |                 |  |       |  |            |  |
|                  |             | K   | MFG.ENG.: D.LICK                |    |       |  |      |  |          |  |                 |  |       |  |            |  |
|                  |             | L   | ASSEMBLY NUMBER:                |    |       |  |      |  |          |  |                 |  |       |  |            |  |
|                  |             | M   | TOP DOCUMENT NUMBER:            |    |       |  |      |  |          |  |                 |  |       |  |            |  |
|                  |             | N   | # B-DD-RL02-0                   |    |       |  |      |  |          |  |                 |  |       |  |            |  |
|                  |             | O   | FILE NAME:                      |    |       |  |      |  |          |  |                 |  |       |  |            |  |
|                  |             | P   | E-UA-RL02-0-0                   |    |       |  |      |  |          |  |                 |  |       |  |            |  |
|                  |             | Q   | Z0485H.FLS                      |    |       |  |      |  |          |  |                 |  |       |  |            |  |
|                  |             | R   | EDIT #                          |    |       |  |      |  |          |  |                 |  |       |  |            |  |
|                  |             | S   | 18                              |    |       |  |      |  |          |  |                 |  |       |  |            |  |

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| LINE ITEM | DOCUMENT NUMBER  | PART NUMBER | DESCRIPTION                       | QUANTITY PER VARIATION |
|-----------|------------------|-------------|-----------------------------------|------------------------|
| 31        |                  | 1213369-00  | BELT,WOVEN,ENDLESS,375WX27,148LG  | 1                      |
| 32        |                  | 1213686-01  | MOUNTING RAIL FOR 12-13686-00     | 1                      |
| 33        |                  | 1214330-00  | SPRING,EXTENSION,2.5LXG,360D      | 1                      |
| 34        |                  | 9006022-01  | SCREW,PAN,PHIL 5-32X 3/8 SS       | 2                      |
| 35        |                  | 9006035-01  | SCREW,PAN,PHIL 8-32X 1/4 SS       | 6                      |
| 36        |                  | 9006037-01  | SCREW,PAN,PHIL 8-32X 3/8 SS       | 13                     |
| 37        |                  | 9006039-01  | SCREW,PAN,PHIL 8-32X 1/2 SS       | 12                     |
| 38        |                  | 9006633-00  | WASHER,LOCK,INT,2800D X .146ID    | 4                      |
| 39        |                  | 9006634-00  | WASHER,LOCK,INT,2300D X .172ID    | 15                     |
| 40        |                  | 9006636-00  | WASHER,LOCK,INT,3800D X .200ID    | 3                      |
| 41        |                  | 9007079-00  | CLAMP, CABLE, SCREW MNT, 1/8"     | 4                      |
| 42        |                  | 9008955-01  | SCREW,PAN,PHIL 10-32X 15/16SS     | 3                      |
| 43        | I-IA-7015637-0-0 | 7015637-01  | RL02 DATA HEAD "A" IN             | 1                      |
| 44        |                  | 9009884-00  | WASHER, FLAT, TEFLON .62 OD X .31 | 4                      |
| 45        |                  | 9009885-00  | WASHER, SPRING                    | 2                      |
| 46        | B-MD-7420084-0-0 | 7420084-00  | SHIM, LATCH                       | A/R                    |
| 47        | C-MD-7416865-0-0 | 7416865-00  | BRACKET LATCH                     | 1                      |
| 48        | D-MD-7420826-0-0 | 7420826-00  | COVER, DC SERVO BOARD             | 1                      |
| 49        |                  | 9006040-01  | SCREW,PAN,PHIL 8-32X 5/8 SS       | 2                      |
| 50        |                  | 9006653-00  | WASHER, FLAT, .375 O.D. X .156 I  | 3                      |
| 51        |                  | 1214359-00  | WASHER,FLAT,S/S,169ID X .620D X   | 2                      |
| 52        |                  | 9006660-00  | WASHER, FLAT, .375 O.D. X .187 I  | 11                     |
| 53        |                  | 9009759-00  | SCREW,FLAT,PHIL, 8-32X 3/8        | 2                      |
| 54        |                  | 9006454-00  | RIVET, BLIND, .156 DIA X .254 LG  | 10                     |
| 55        | B-MD-7420084-0-0 | 7420084-01  | SHIM LATCH                        | A/R                    |
| 56        |                  | 3700406-00  | INSTR PKG DISK RL01 DRIVE         | 1                      |
| 57        |                  | 9007649-00  | WASHER, LOCK, EXTERNAL TOOTH #6   | 5                      |
| 58        |                  | 9006021-01  | SCREW,PAN,PHIL 6-32X 5/16 SS      | 4                      |
| 59        |                  | 9008072-00  | WASHER, LOCK, EXTERNAL TOOTH #8   | 21                     |
| 60        |                  | 9009974-00  | WASHER, FLAT, METAL, .62 O.D. X   | 2                      |
| 61        |                  | 3613209-03  | LABEL,ELECTRICAL DATA VARIATIO    | 1                      |
| 62        | I-MD-7420068-0-0 | 7420068-00  | SHIELD POSITIONER                 | 1                      |
| 63        |                  | 3614783-00  | LABEL,ADH BACK "DANGER HIGH VOLT  | 1                      |
| 64        |                  | 7416197-02  | DECAL, LA36                       | 1                      |
| 65        | A-DC-7416197-0-0 | 3613211-01  | DECAL,CLEAR PREPRINTED CSA 1-1/4  | 1                      |
| 66        |                  | 3615687-00  | LABEL,ADHESIVE BACK FOR RL02      | 1                      |
| 67        |                  | 3615393-05  | LABEL,RUB-ON,RL02                 | 1                      |
| 68        |                  | 3616643-00  | LABEL,CAUTION                     | 1                      |
| 69        |                  | 9006418-01  | SCREW,TAPPING,TYPE TT,PAN ,PHIL,  | 2                      |
| 70        | B-MD-7422834-0-0 | 7422834-00  | INSULATOR,HEAD CABLE              | 1                      |
| 71        |                  | 9009023-00  | WASHER,LOCK,INT,.3300D X .172ID   | 2                      |
| 72        | C-IA-7017608-0-0 | 7017608-00  | *** THIS ITEM IS NOT USED ***     | -                      |
| 73        | B-IA-7017609-0-0 | 7017609-00  | *** THIS ITEM IS NOT USED ***     | -                      |

| D | I | G | I | T | A | L | TITLE                    | SECTION A | OF | A | SIZE | CODE | DOCUMENT NUMBER | REV |
|---|---|---|---|---|---|---|--------------------------|-----------|----|---|------|------|-----------------|-----|
|   |   |   |   |   |   |   | RLO2 DISK DRIVE ASSEMBLY |           |    |   |      |      | K PL RLO2-O-DEF | H   |

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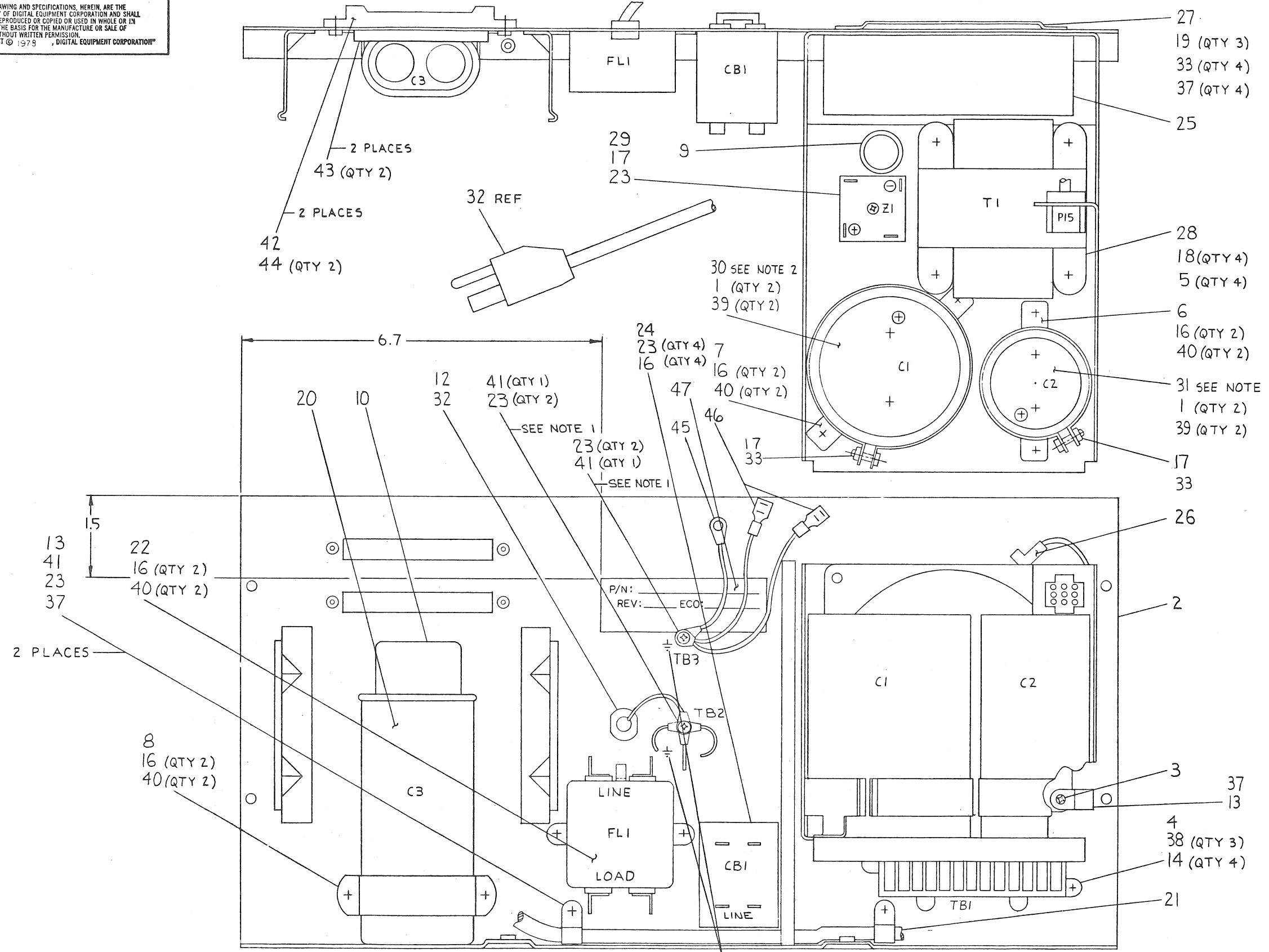
# NOTES:

1. INT TOOTH LOCK WASHERS (ITEM 23) ARE USED OVER AND UNDER GROUND TERMINALS.
2. ORIENT TERMINALS AS SHOWN.

REV. 2  
NUMBER 7012130-0-0  
SIZE CODE D

| QUANTITY & VARIATION                                                                                                                                         |  | DESCRIPTION                                | DWG./PART NO.                    | ITEM NO.                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------|
| THIRD ANGLE PROJECTION<br>REMOVE BURRS AND BREAK SHARP CORNERS<br>DO NOT SCALE DWG<br>MATERIAL<br>FINISH                                                     |  | ANGLES<br>±0° 30'                          | CLASS OF ACCURACY<br>(CHECK ONE) | NOMINAL DIMENSION RANGE INCHES                                                                                    |
|                                                                                                                                                              |  | SURFACE QUALITY<br>IN<br>MICROINCHES       | MEDIUM<br>PREFERRED              | OVER 0 TO 0.2<br>OVER 0.2 TO 1.2<br>OVER 1.2 TO 4.0<br>OVER 4.0 TO 12.0<br>OVER 12.0 TO 40.0<br>OVER 40.0 TO 80.0 |
| DRN. S. NEUCHOR 12/AUG 77<br>CHK'D G. SCHNEIDER 24/AUG 77<br>ENG. G. SCHNEIDER 24/AUG 77<br>PROJ. ENG. R. ARVIDSSON 10/AUG 77<br>PROD. B. RYLANDER 10/AUG 77 |  | FIRST USED ON<br>RL01<br>digital           |                                  |                                                                                                                   |
| SEE PARTS LIST                                                                                                                                               |  | TITLE<br>POWER PANEL ASSY                  |                                  |                                                                                                                   |
| SCALE: 1/1                                                                                                                                                   |  | SIZE CODE NUMBER REV.<br>D AD7012130-0-0 V |                                  |                                                                                                                   |
| SHEET 1 OF 3                                                                                                                                                 |  | DIST.                                      |                                  |                                                                                                                   |

| REV. | CHANGE NO. | DESCRIPTION                   |
|------|------------|-------------------------------|
| A    | 1          | RELEASED AT PREVIOUS REV X008 |
| B    | 2          | 7012130-0001 G. REICHENBERG   |
| C    | 3          | 7012130-0002 G. SCHNEIDER     |
| D    | 4          | RL01-00009 G. SCHNEIDER       |
| E    | 5          | 7012130-CX003 K. GUENZEL      |
| F    | 6          | 7012130-CX004 G. REICHENBERG  |
| G    | 7          | 7012130-CX005 G. REICHENBERG  |
| H    | 8          | RL01-CZ018 K. GUENZEL         |
| I    | 9          | 7012130-CZ006 K. GUENZEL      |
| J    | 10         | 7012130-CZ007 K. GUENZEL      |
| K    | 11         | 7012130-CZ008 K. GUENZEL      |
| L    | 12         | 7012130-CZ009 K. GUENZEL      |
| M    | 13         | 7012130-CZ010 K. GUENZEL      |
| N    | 14         | 7012130-CZ011 K. GUENZEL      |
| O    | 15         | 7012130-CZ012 K. GUENZEL      |
| P    | 16         | 7012130-CZ013 K. GUENZEL      |
| Q    | 17         | 7012130-CZ014 K. GUENZEL      |
| R    | 18         | 7012130-CZ015 K. GUENZEL      |
| S    | 19         | 7012130-CZ016 K. GUENZEL      |
| T    | 20         | 7012130-CZ017 K. GUENZEL      |
| U    | 21         | 7012130-CZ018 K. GUENZEL      |
| V    | 22         | 7012130-CZ019 K. GUENZEL      |

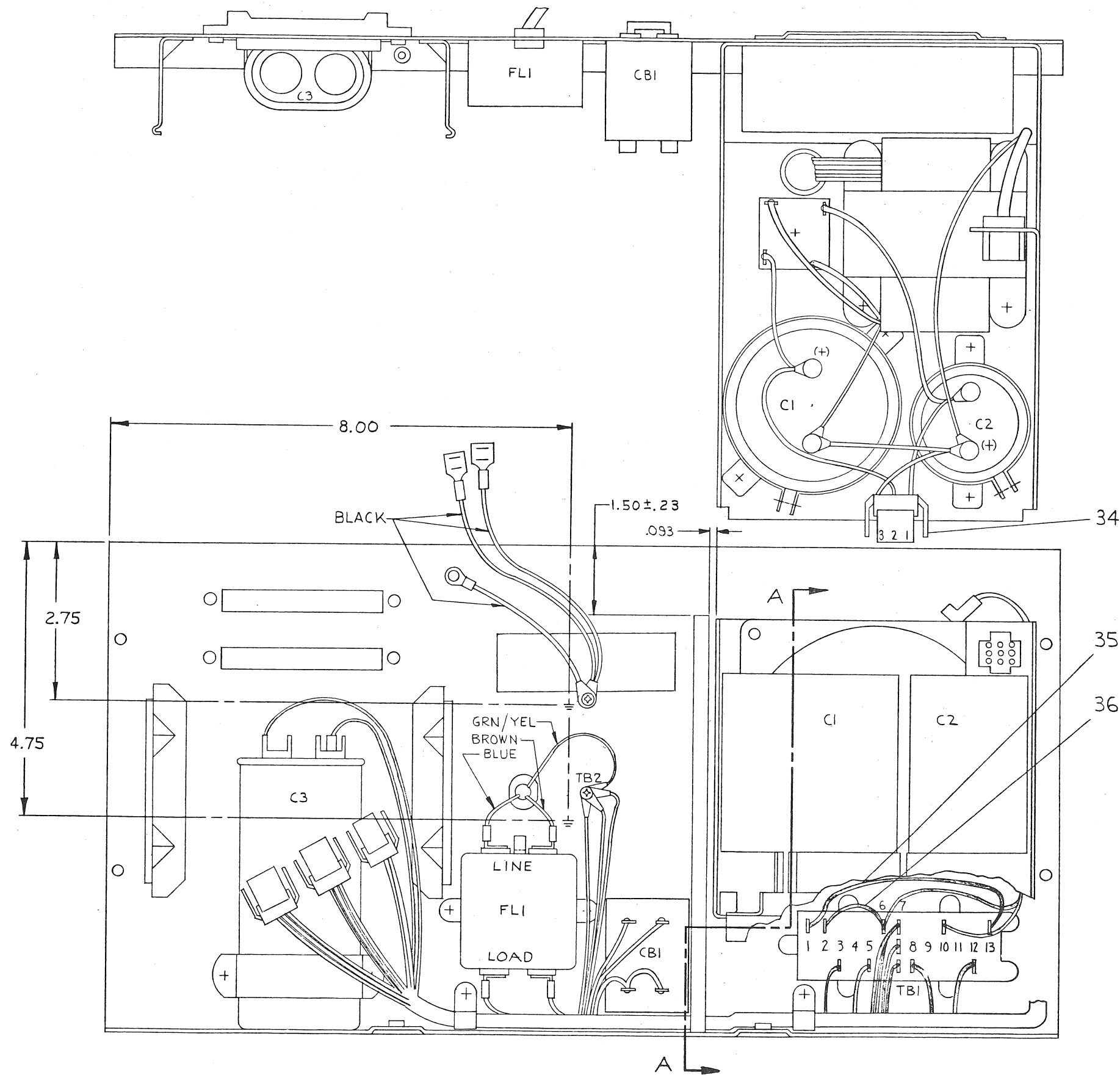
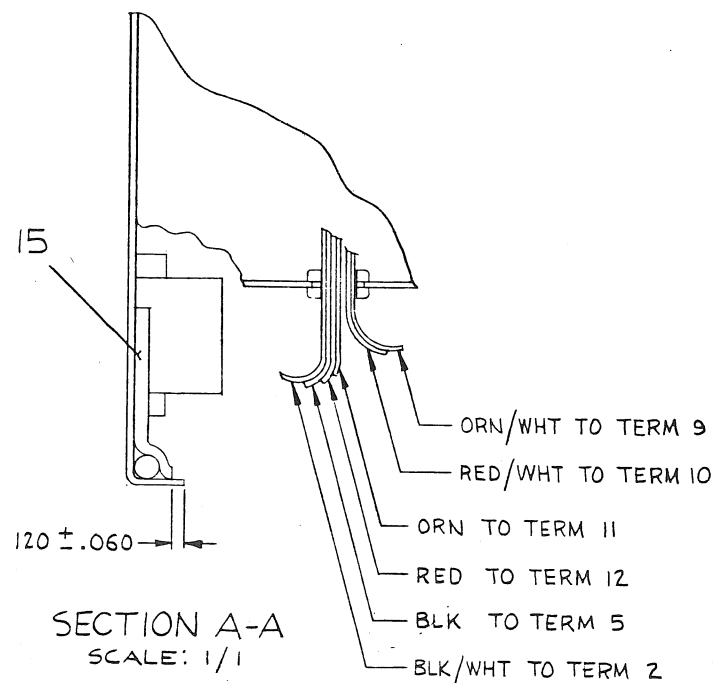


CAUTION: OFF SHEET PARTS LIST EXISTS.  
SEE K-PL-7012130-0-DBP (Z0849)

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# NOTES:

- INPUT VOLTAGE 50 OR 60 HZ  
90-110, 105-128 VAC  
180-220, 210-256 VAC
- OUTPUT VOLTAGE  $\pm 11.5$  VDC MIN AT MIN POINT OF THE RIPPLE. 18 VDC MAX AT HIGH LINE. (MAX OF 25 VDC AT HIGH LINE NO LOAD).
- OUTPUT CURRENT: POSITIVE OUTPUT  
2.5 AMP CONTINUOUS  
3.5 AMP PULSE "25 MS"  
NEGATIVE OUTPUT  
.25 AMP CONTINUOUS  
3.5 AMP PULSE "25 MS"  
PULSE CURRENT ON ALTERNATE OUTPUT AT A 65 MS OUT CYCLE.
- OUTPUT RIPPLE AT 110 VOLTS  
A. NO LOAD 100 MV P/P  
B. +2.5 A 600 MV P/P  
-.25 A 300 MV P/P  
C. +2.5 A 600 MV P/P  
-3.75 A 1.5 V DURING PULSE  
RIPPLE AT 90 V RMS  
+2.5 A 500 MV  
-3.75 A 2V  
+6 A 900 MV  
-.25 A 400 MV
- HIGH POT TEST PER UL 478  
CONNECT BOTH AC LEADS TO THE POSITIVE TERMINAL OF THE SUPPLY AND GRN WIRE GROUND TO THE NEGATIVE TERMINAL OF THE SUPPLY. CLOSE CIRCUIT BREAKER AND INCREASE VOLTAGE TO 1750 VDC, ANY CURRENT INDICATES FAILURE.



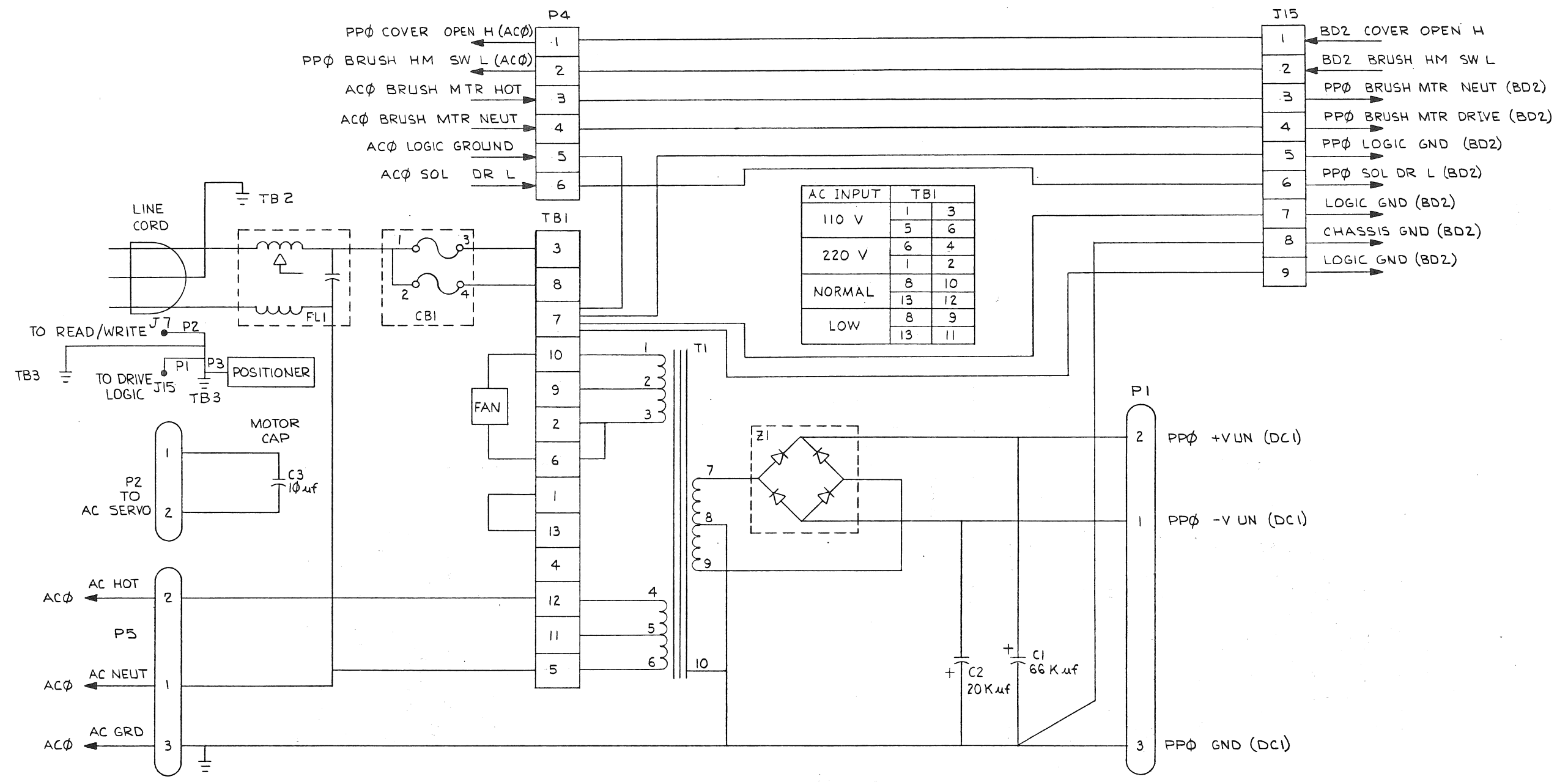
| REVISIONS |            |      |
|-----------|------------|------|
| CHK       | CHANGE NO. | REV. |
|           |            |      |

DEC FORM NO. 010 137

| TITLE            |              | SIZE/CODE | NUMBER      | REV. |
|------------------|--------------|-----------|-------------|------|
| POWER PANEL ASSY |              | D AD      | 7012130-0-0 | V    |
| SCALE: 1/1       | SHEET 2 OF 3 | DIST.     |             |      |



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| REVISIONS |            |      |
|-----------|------------|------|
| CHK       | CHANGE NO. | REV. |
|           |            |      |

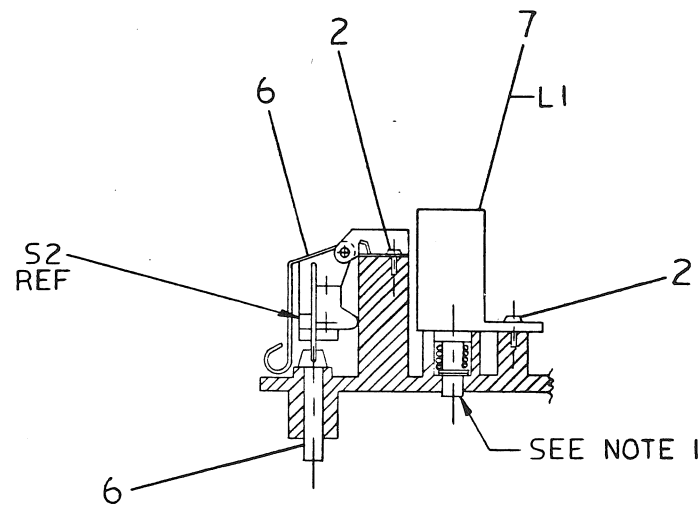
| LINE ITEM                                                                                                                                                                                                                                                                                      | DOCUMENT NUMBER | PART NUMBER | DESCRIPTION                      | QUANTITY PER VARIATION<br>00 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|----------------------------------|------------------------------|
| 1                                                                                                                                                                                                                                                                                              | 1               | 9006070-01  | SCREW,PAN,PHIL 10-32X 5/16 SS    | 4                            |
| 2                                                                                                                                                                                                                                                                                              | 2               | 7416326-00  | CHASSIS                          | 1                            |
| 3                                                                                                                                                                                                                                                                                              | 3               | 9006028-01  | SCREW,PAN,PHIL 6-32X1 SS         | 1                            |
| 4                                                                                                                                                                                                                                                                                              | 4               | 7012127-00  | CHASSIS ASSY                     | 1                            |
| 5                                                                                                                                                                                                                                                                                              | 5               | 9008072-00  | WASHER, LOCK, EXTERNAL TOOTH #8  | 4                            |
| 6                                                                                                                                                                                                                                                                                              | 6               | 1210430-00  | BRACKET,CAPACITOR,2"             | 1                            |
| 7                                                                                                                                                                                                                                                                                              | 7               | 1210431-00  | BRACKET,CAPACITOR,3-1/16"        | 1                            |
| 8                                                                                                                                                                                                                                                                                              | 8               | 1213156-01  | BRACKET,CAPACITOR,WRAP-AROUND    | 1                            |
| 9                                                                                                                                                                                                                                                                                              | 9               | 9007016-00  | GROMMET, RUBBER                  | 1                            |
| 10                                                                                                                                                                                                                                                                                             | 10              | 1213683-00  | BOOT,CAPACITOR,RUBBER            | 1                            |
| 11                                                                                                                                                                                                                                                                                             | 11              | 9007113-00  | *** THIS ITEM IS NOT USED ***    | -                            |
| 12                                                                                                                                                                                                                                                                                             | 12              | 9009768-01  | BUSHING,STRAIN RELIEF ,280-.393W | 1                            |
| 13                                                                                                                                                                                                                                                                                             | 13              | 9007082-00  | CLAMP,CABLE,SCREW MTD, 5/16"     | 3                            |
| 14                                                                                                                                                                                                                                                                                             | 14              | 9009800-01  | SCREW,PAN,PHILLIPS, 6X7/8 SELF-  | 4                            |
| 15                                                                                                                                                                                                                                                                                             | 15              | 9009059-01  | TAPE,FOAM, 1/2W X 1/4THK W/ ADH  | A/R                          |
| 16                                                                                                                                                                                                                                                                                             | 16              | 9006020-01  | SCREW,PAN,PHIL 6-32X 1/4 SS      | 12                           |
| 17                                                                                                                                                                                                                                                                                             | 17              | 9006023-01  | SCREW,PAN,PHIL 6-32X 7/16 SS     | 3                            |
| 18                                                                                                                                                                                                                                                                                             | 18              | 9006036-01  | SCREW,PAN,PHIL 8-32X 5/16 SS     | 4                            |
| 19                                                                                                                                                                                                                                                                                             | 19              | 9006027-01  | SCREW,PAN,PHIL 6-32X 7/8 SS      | 3                            |
| 20                                                                                                                                                                                                                                                                                             | 20              | 1013102-00  | 10 MFD 370VAC 6% PAPER/OIL       | 1                            |
| 21                                                                                                                                                                                                                                                                                             | 21              | 7012108-00  | POWER PANEL HARNESS              | 1                            |
| 22                                                                                                                                                                                                                                                                                             | 22              | 1215360-00  | FILTER,LINE,115/250V,47-400HZ, F | 1                            |
| 23                                                                                                                                                                                                                                                                                             | 23              | 9006633-00  | WASHER,LOCK,INT,.2800D X .146ID  | 11                           |
| 24                                                                                                                                                                                                                                                                                             | 24              | 1216827-00  | CKT BKR 2.5 A 250V 2P MAGNETIC   | 1                            |
| 25                                                                                                                                                                                                                                                                                             | 25              | 1209403-01  | FAN,115CFM,SLEEVE BRNG           | 1                            |
| 26                                                                                                                                                                                                                                                                                             | 26              | 7012110-00  | HARNESS AC-TB                    | 1                            |
| 27                                                                                                                                                                                                                                                                                             | 27              | 1210263-00  | GUARD,FINGER 4.125 X 4.125 MTG H | 1                            |
| 28                                                                                                                                                                                                                                                                                             | 28              | 1613897-00  | XFMR P-AB S=11.5@6A              | 1                            |
| 29                                                                                                                                                                                                                                                                                             | 29              | 1110051-00  | DM 16 ASSYE200V & 25A #990-3     | 1                            |
| 30                                                                                                                                                                                                                                                                                             | 30              | 1013530-00  | 66,000 MFD 30V +75-10% AL EL     | 1                            |
| REVISION HISTORY                                                                                                                                                                                                                                                                               |                 |             |                                  |                              |
| ENG                                                                                                                                                                                                                                                                                            | ECD NUMBER      | REV         | SECTION A OF A                   | ORLO1                        |
| KG                                                                                                                                                                                                                                                                                             | 7012130-CX010   | IF          | SECTION. VARIATION INDEX:CHK'D:  | DATE: 12-AUG-76              |
| KG                                                                                                                                                                                                                                                                                             | RL02-CX008      | IR          | [AJ 00                           |                              |
| KG                                                                                                                                                                                                                                                                                             | 7012130-CX011   | IS          |                                  |                              |
| MZ                                                                                                                                                                                                                                                                                             | RL02-CX010      | IT          | [BJ                              |                              |
| KG                                                                                                                                                                                                                                                                                             | 7012130-CX012   | IU          | [CJ                              |                              |
| IW                                                                                                                                                                                                                                                                                             | 7012130-CX013   | Iv          | [DJ                              |                              |
|                                                                                                                                                                                                                                                                                                |                 |             | [EJ                              |                              |
|                                                                                                                                                                                                                                                                                                |                 |             | [FJ                              |                              |
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| LINE ITEM | DOCUMENT NUMBER | PART NUMBER | DESCRIPTION                      | QUANTITY PER VARIATION<br>00 |
|-----------|-----------------|-------------|----------------------------------|------------------------------|
| 31        | 31              | 1013531-00  | 20,000 MFD 40V +75-10% AL EL     | 1                            |
| 32        | 32              | 7012109-00  | POWER HARNESS                    | 1                            |
| 33        | 33              | 9006560-00  | NUT,KEP , 6-32 X5/16AF           | 6                            |
| 34        | 34              | 7012142-00  | CABLE                            | 1                            |
| 35        | 35              | 7012125-0E  | INTERCONNECT CABLE               | 1                            |
| 36        | 36              | 7012125-0B  | TB INTERCONNECTOR HARNESS        | 1                            |
| 37        | 37              | 9006653-00  | WASHER, FLAT, .375 O.D. X .156 I | 7                            |
| 38        | 38              | 9009800-06  | SCREW,PAN,PHILLIPS, 6X.38        | 3                            |
| 39        | 39              | 9006635-00  | WASHER,LOCK,INT,.3100D X .200ID  | 4                            |
| 40        | 40              | 9007649-00  | WASHER, LOCK, EXTERNAL TOOTH #6  | 8                            |
| 41        | 41              | 9006021-01  | SCREW,PAN,PHIL 6-32X 5/16 SS     | 4                            |
| 42        | 42              | 1211591-35  | CONN,ZIF 40PIN RCPT ASSY         | 2                            |
| 43        | 43              | 1211591-38  | CONN,ZIF 40PIN RCPT,SWAP IN GU   | 4                            |
| 44        | 44              | 9008301-01  | SCREW,PAN,PHIL 4-40X 1/4 SS      | 4                            |
| 45        | 45              | 7017609-00  | GROUND HARNESS                   | 1                            |
| 46        | 46              | 7017608-00  | GROUND HARNESS                   | 1                            |
| 47        | 47              | 9009255-00  | LABEL, POWER SUPPLY, 2-15/16 " L | 1                            |
| 48        | 48              | 3612680-00  | DECAL, GROUND SIGN PER 3E6 *     | 2                            |

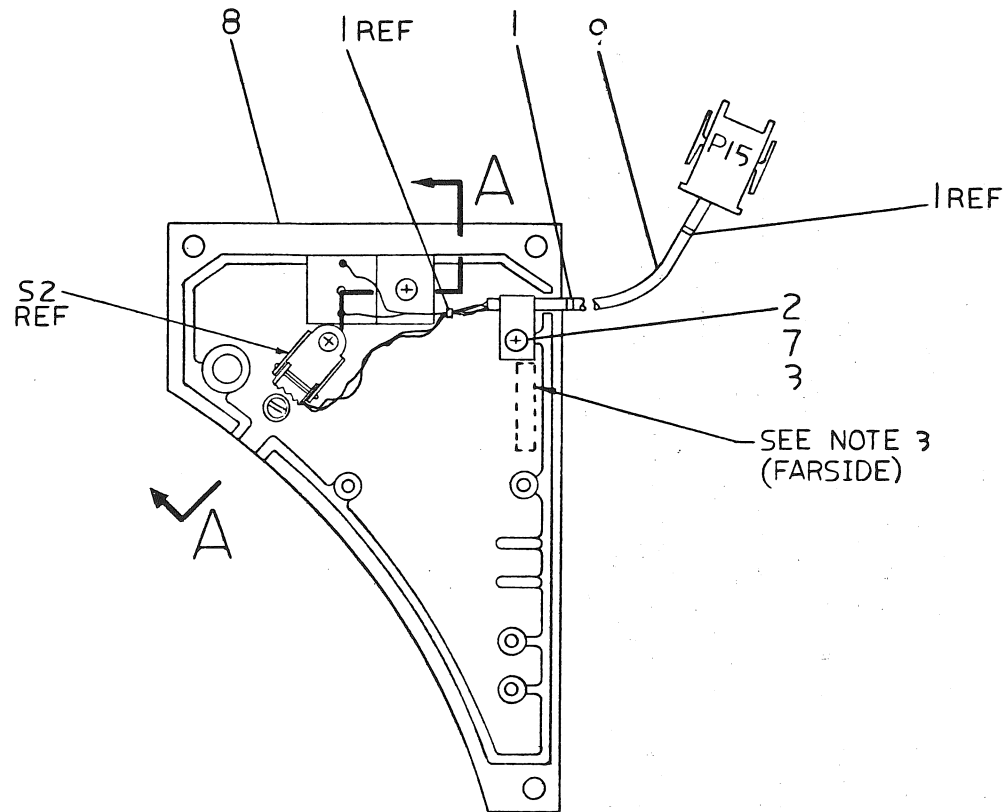
|   |   |   |   |   |   |   |       |  |                      |  |           |    |   |           |                 |               |   |
|---|---|---|---|---|---|---|-------|--|----------------------|--|-----------|----|---|-----------|-----------------|---------------|---|
| D | I | G | I | T | A | L | TITLE |  | POWER PANEL ASSEMBLY |  | SECTION A | OF | A | SIZE:CODE | DOCUMENT NUMBER | REV           |   |
|   |   |   |   |   |   |   |       |  |                      |  |           |    |   | K         | PL              | 7012130-0-DBP | V |



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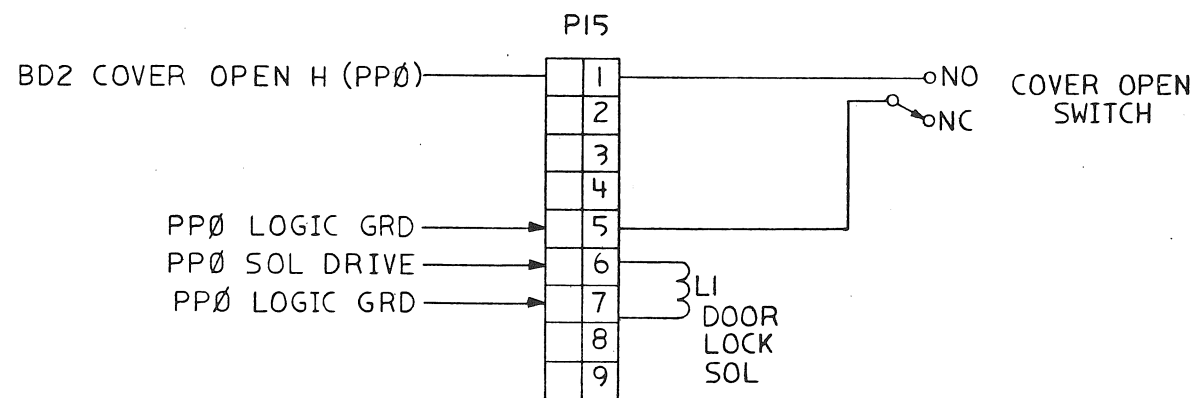


SECTION A-A



NOTES:

1. PLUNGER OF SOLENOID, COVER LOCK (ITEM 5) MUST MOVE FREELY. WHEN ASSEMBLY IS POSITIONED IN "UP" POSITION (TIP OF PLUNGER POINTING UP) A D C VOLTAGE OF 6.9 VOLTS SHALL PULL THE PLUNGER DOWN.
2. CONNECT LEADS OF SOLENOID, COVER LOCK (ITEM 5) TO PINS 6 & 7 OF CONNECTOR BODY (PI5). DRESS WIRES AND TIE TO COVER, SWITCH HARNESS (ITEM 9) WITH TIE, CABLE (ITEM 1) AS SHOWN.
3. PART TO BE MARKED WITH PART NO. (7016991-00) AND LATEST REVISION LETTER IN AREA SHOWN (FARSIDE).



CIRCUIT SCHEMATIC

CAUTION: OFF SHEET PARTS LISTS EXISTS.  
SEE K-PL-7016991-0-DBP (Z0984).

| DATE                                                                                                    | ECO NUMBER | REV |
|---------------------------------------------------------------------------------------------------------|------------|-----|
| 582                                                                                                     | 1001       | *   |
| RELEASED TO<br>ECO CONTROL<br>PER ECO PLAN<br>CX048 AT REV<br>* K.D. 1 OCT 80<br>* GUENZEL<br>* 10/1/80 |            |     |

|                                                                                                          |  |                                     |  |                            |  |                       |  |
|----------------------------------------------------------------------------------------------------------|--|-------------------------------------|--|----------------------------|--|-----------------------|--|
| DESCRIPTION                                                                                              |  | DRAWING NO.                         |  | PART NO.                   |  | ITEM NO.              |  |
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND THE FOLLOWING TOLERANCES APPLY (PER DEC STD 114) |  |                                     |  |                            |  |                       |  |
| INCHES TOLERANCES                                                                                        |  | ANGLES ± 0° 30'                     |  | APPLICABLE DIMENSION RANGE |  |                       |  |
| .X = ± .1<br>.XX = ± .02<br>.XXX = ± .005                                                                |  | SURFACE QUALITY<br>✓<br>MICROINCHES |  | (CHECK ONE)                |  |                       |  |
|                                                                                                          |  |                                     |  | DIMENSION RANGE IN INCHES  |  |                       |  |
|                                                                                                          |  |                                     |  | OVER 0 TO 0.2              |  |                       |  |
|                                                                                                          |  |                                     |  | OVER 0.2 TO 1.2            |  |                       |  |
|                                                                                                          |  |                                     |  | OVER 1.2 TO 4.0            |  |                       |  |
|                                                                                                          |  |                                     |  | OVER 4.0 TO 12.0           |  |                       |  |
|                                                                                                          |  |                                     |  | OVER 12.0 TO 40.0          |  |                       |  |
|                                                                                                          |  |                                     |  | OVER 40.0 TO 60.0          |  |                       |  |
|                                                                                                          |  |                                     |  | ± .02                      |  |                       |  |
|                                                                                                          |  |                                     |  | ± .03                      |  |                       |  |
|                                                                                                          |  |                                     |  | ± .05                      |  |                       |  |
|                                                                                                          |  |                                     |  | ± .10                      |  |                       |  |
|                                                                                                          |  |                                     |  | ± .004                     |  |                       |  |
|                                                                                                          |  |                                     |  | ± .008                     |  |                       |  |
|                                                                                                          |  |                                     |  | ± .012                     |  |                       |  |
|                                                                                                          |  |                                     |  | ± .016                     |  |                       |  |
|                                                                                                          |  |                                     |  | ± .024                     |  |                       |  |
|                                                                                                          |  |                                     |  | ± .04                      |  |                       |  |
| THIRD ANGLE PROJECTION                                                                                   |  | DRN K.D.                            |  | DATE 1 OCT 80              |  | TITLE digital         |  |
| DO NOT SCALE DRAWING                                                                                     |  | CHK'D R.C. Nish                     |  | DATE 22 OCT 80             |  | SWITCH COVER ASSY     |  |
| REMOVE BURRS AND BREAK SHARP CORNERS                                                                     |  | DES. ENG. J. H. Hout                |  | DATE 2 OCT 80              |  |                       |  |
| MATERIAL                                                                                                 |  | RES. ENG. J. H. Hout                |  | DATE 2 OCT 80              |  |                       |  |
| SEE PARTS LIST                                                                                           |  | MFG. ENG. J. H. Hout                |  | DATE                       |  |                       |  |
| FINISH                                                                                                   |  | NEXT HIGHER DOC                     |  | E-UA-RL01-0-0              |  |                       |  |
|                                                                                                          |  |                                     |  |                            |  | DOCUMENT NUMBER       |  |
|                                                                                                          |  |                                     |  |                            |  | SIZE CODE NUMBER REV. |  |
|                                                                                                          |  |                                     |  |                            |  | D AD 7016991-0-0 *    |  |
|                                                                                                          |  |                                     |  |                            |  | SCALE 1/1 SHEET OF    |  |

AUTOMATED BY PRTLST,3L(40)

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COMPONENT SIDE VIEW

60  
8PLC'S  
MNT ON  
SIDE 2

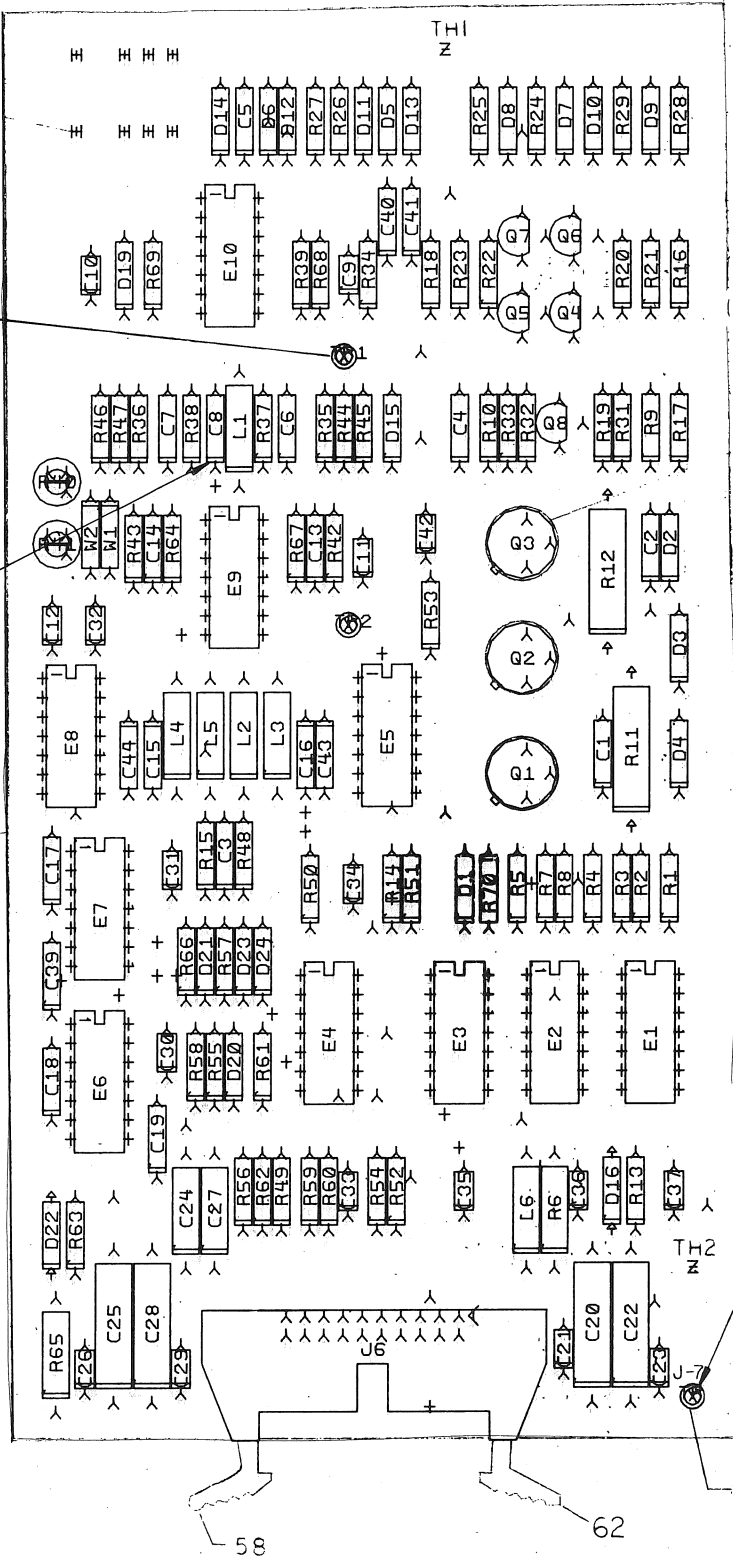
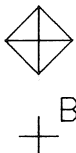
65  
2 PLCS

I-1

I-3

43, 44  
45  
TYP  
3 PLC'S

I-2  
I-4



NOTES:

| CHK | CHANGE    | NO | REV |
|-----|-----------|----|-----|
| B   | 5413536-  |    | B   |
|     | CX001     |    |     |
|     | M. ZARICH |    |     |
|     | 80        |    |     |
|     | M. ZARICH |    |     |

|                                |
|--------------------------------|
| ETCH REV. B                    |
| P.C. OF SIGN DATA BASE RCV. BL |

| SIGNATURES                       | DATE      | digital       |
|----------------------------------|-----------|---------------|
| DRN. <i>L. P.</i>                | 8/3/78    |               |
| CHK'D. <i>L. P.</i>              | 8/3/78    |               |
| ENG. <i>B. N.</i>                | 8/3/77    |               |
| PROJ. ENG. <i>M. Z.</i>          | 2/1/78    |               |
| PROD. <i>P. Z.</i>               | 2/1/78    |               |
| SCALE 2/                         | SIZE CODE | NUMBER        |
| SHT. 1 OF 2                      | D UA      | 5413536-0-0 B |
| NEXT HIGHER ASSY: B-DD-5413536-0 |           |               |

AUTOMATED BY PRTLIST.2E(3)

P A R T S L I S T

SHEET A1 OF A2

| LINE ITEM | DOCUMENT NUMBER  | PART NUMBER | DESCRIPTION                          | QTY PER VARIATION | REFERENCE DESIGNATOR            |
|-----------|------------------|-------------|--------------------------------------|-------------------|---------------------------------|
| 1         | D-MD-5013535-0-0 | 5013535-00  | ETCHED CIRCUIT BD                    | 1                 | C9-C12,C21,C23,C26,C29-C37,C42  |
| 2         |                  | 1001610-00  | .01 MFD 50V -20+80 Z5U AXIAL         | 17                | C20,C22,C25,C28                 |
| 3         |                  | 1005306-00  | 6.BMFD 35V 10% S.TANT                | 4                 | C16,C43                         |
| 4         |                  | 1013466-14  | 82.0 MNE 50V 5% CER.                 | 2                 | C8                              |
| 5         |                  | 1013466-06  | 100.0 MNE 50V 5% CER.                | 1                 | C5                              |
| 6         |                  | 1013466-05  | 56.0 MNE 50V 5% CER.                 | 1                 | C1,C2,C4,C17,C39                |
| 7         |                  | 1013466-07  | 220.0 MNE 50V 5% CER.                | 5                 | C18                             |
| 8         |                  | 1013466-09  | 1000.0 MNE 50V 10% CER.              | 1                 | C24,C32                         |
| 9         |                  | 1013466-11  | .22 MFD 50V +80/-20% CER.            | 2                 | C19,C40,C41                     |
| 10        |                  | 1013466-15  | 1200.0 MNE 50V 5% CER.               | 2                 | D16,D22                         |
| 11        |                  | 1108943-00  | IN 4733A VZ= 5.1 5% IW Y             | 1                 | D19                             |
| 12        |                  | 1113953-00  | IN 5523D VZ= 5.1 1% 1Z               | 1                 | D5-D10,D15,D20,D21,D23,D24      |
| 13        |                  | 1100122-00  | IN 7484 VZ= 3.9 5% TR= 4NS PIV= 50 S | 11                | D5                              |
| 14        |                  | 111577-00   | 150.0 .25 W 5.0 % CC                 | 1                 | R5                              |
| 15        |                  | 1300250-00  | 100.0 .25 W 5.0 % CC                 | 5                 | R39,R52,R54,R59,R69             |
| 16        |                  | 1300232-00  | 100.0 1.0 W 5.0 % CC                 | 2                 | R11,R12                         |
| 17        |                  | 1300247-00  | 120.0 .25 W 5.0 % CC                 | 1                 | R56                             |
| 18        |                  | 1300365-00  | 1.0 K .25 W 5.0 % CC                 | 8                 | R13,R14,R35,R36,R48,R49,R66,R70 |
| 19        |                  | 1300444-00  | 3.90 K .25 W 5.0 % CC                | 3                 | R46                             |
| 20        |                  | 1300447-00  | 4.70 K .25 W 5.0 % CC                | 1                 | R9,R10,R32                      |
| 21        |                  | 1301775-00  | 820.0 .25 W 5.0 % CC                 | 1                 | R31                             |
| 22        |                  | 1301317-00  | 10.0 .25 W 5.0 % CC                  | 2                 | R63                             |
| 23        |                  | 1302612-00  | 1.78 K 1/4W 1% RN55D-F 100PPM        | 2                 | R50,R51                         |
| 24        |                  | 1300193-00  | 33.0 .50 W 5.0 % CC                  | 2                 | R64,R65                         |
| 25        |                  | 1300193-00  | 300 1/4W 1% RN55D-F 100PPM           | 2                 | R62                             |
| 26        |                  | 1304725-00  | 5.10 K .25 W 5.0 % CC                | 1                 | R55,R58                         |
| 27        |                  | 1312930-00  | 680.0 .25 W 5.0 % CC                 | 4                 | R16,R18,R21,R23                 |
| 28        |                  | 1301424-00  | 20.0 K .25 W 5.0 % CC                | 1                 | R60                             |
| 29        |                  | 1302391-00  | 2.70 K .25 W 5.0 % CC                | 1                 | R33                             |
| 30        |                  | 1300425-00  |                                      |                   |                                 |

| REVISION HISTORY | BASIC PART NO:  | 13536 | DRN:                     | JERRY BEST        | DATE: 14-AUG-78 | TITLE                | SECTION A OF A   | SIZE/PL         | PL | 5413536-0-DBP | REV |
|------------------|-----------------|-------|--------------------------|-------------------|-----------------|----------------------|------------------|-----------------|----|---------------|-----|
| ENG              | ECO NUMBER      | REV   | SECTION A OF A           | CHK'D:            | L. RODHR        | DATE: 14-AUG-78      | READ/WRITE BOARD | DOCUMENT NUMBER |    |               |     |
| INIT             | 5413536-CX001   | A     | SECTION, VARIATION INDEX | DES. ENG:         | B. NOBUCHI      | DATE:                |                  |                 |    |               |     |
| IMZ              | M. ZACHA W.C.M. | B     | EA1 00                   | RESP. ENG.:       | B. NOBUCHI      | DATE: 14-AUG-78      |                  |                 |    |               |     |
| 7 JAN 80         |                 | EB1   |                          | IMFG. ENG.:       | P. CHURCH       | DATE:                |                  |                 |    |               |     |
|                  |                 | ED1   |                          | ASSEMBLY NUMBER:  |                 | TOP DOCUMENT NUMBER: |                  |                 |    |               |     |
|                  |                 | EE1   |                          | ID-0A-5413536-0-0 |                 | IRL02                |                  |                 |    |               |     |
|                  |                 | EF1   |                          |                   |                 |                      |                  |                 |    |               |     |
|                  |                 | EJ1   |                          |                   |                 |                      |                  |                 |    |               |     |
|                  |                 | EK1   |                          |                   |                 |                      |                  |                 |    |               |     |
|                  |                 | EL1   |                          |                   |                 |                      |                  |                 |    |               |     |
|                  |                 | EN1   |                          |                   |                 |                      |                  |                 |    |               |     |

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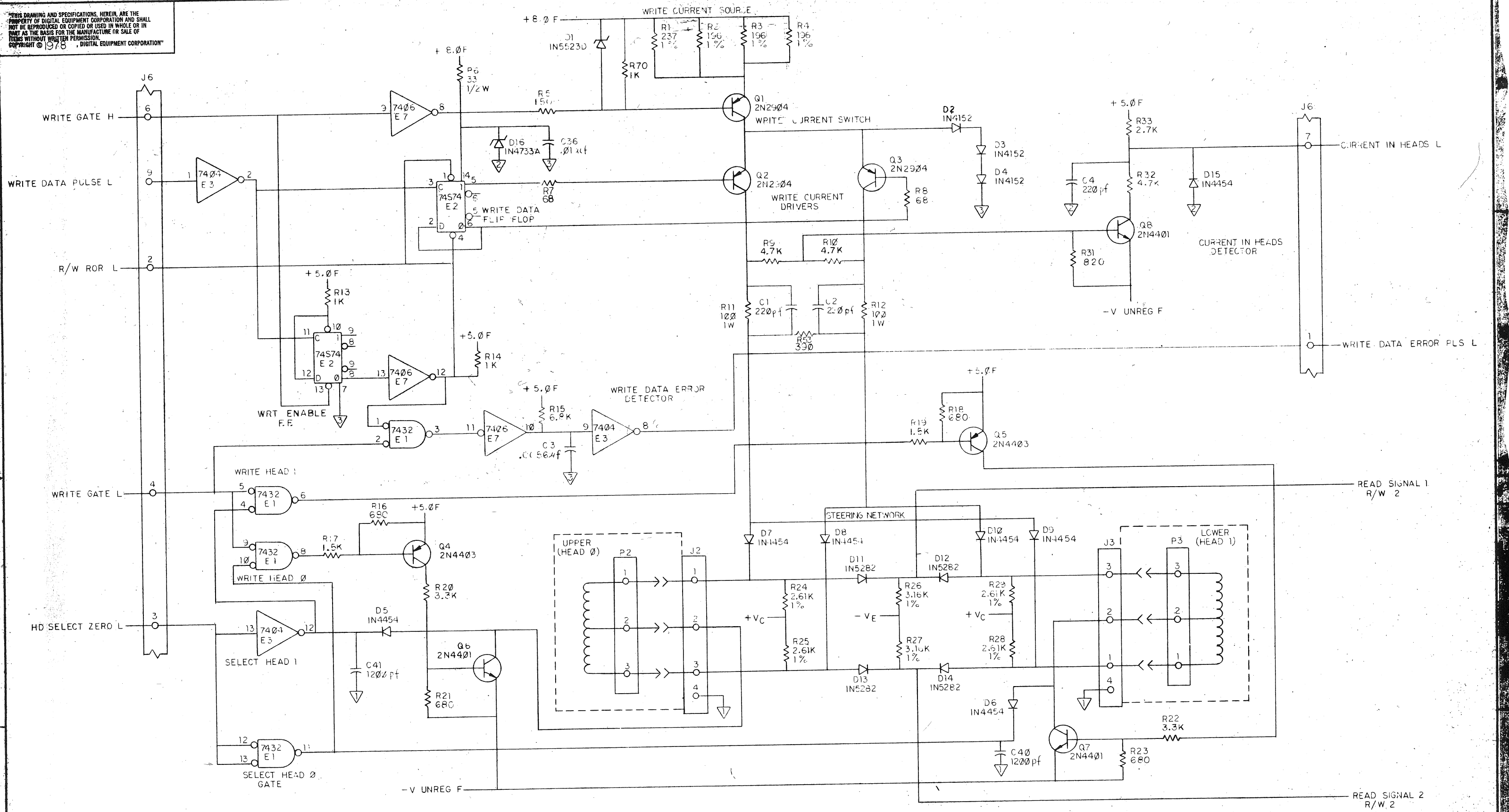
P A R T S L I S T

SHEET A2 OF A2

| LINE ITEM | DOCUMENT NUMBER | PART NUMBER | DESCRIPTION                      | QTY PER VARIATION | REFERENCE DESIGNATOR |
|-----------|-----------------|-------------|----------------------------------|-------------------|----------------------|
| 31        |                 | 1302956-00  | 196 1/4W 1% RN55D-F 100PPM       | 3                 | R2,R3,R4             |
| 32        |                 | 1300439-00  | 3.30 K .25 W 5.0 % CC            | 2                 | R20,R22              |
| 33        |                 | 1305143-00  | 825 1/4W 1% RN55D-F 100PPM       | 2                 | R44,R45              |
| 34        |                 | 1303303-00  | 2.61 K 1/4W 1% RN55D-F 100PPM    | 4                 | R24,R25,R28,R29      |
| 35        |                 | 1302645-00  | 1.1 K 1/4W 1% RN55D-F 100PPM     | 1                 | R61                  |
| 36        |                 | 1301477-00  | 82.0 .25 W 5.0 % CC              | 1                 | R68                  |
| 37        |                 | 1301322-00  | 180.0 .25 W 5.0 % CC             | 2                 | R37,R38              |
| 38        |                 | 1313469-00  | 240.0 .25 W 5.0 % CC             | 2                 | R34                  |
| 39        |                 | 1303045-00  | 3.16 K 1/4W 1% RN55D-F 100PPM    | 1                 | R26,R27              |
| 40        |                 | 1501913-00  | 2N 2904A PNP 600MW SI 60 40 Y    | 3                 | R1-R3                |
| 41        |                 | 1513489-00  | 2N 4401 PNP 350MW SI-40 30       | 2                 | R6-R8                |
| 42        |                 | 1513490-00  | HEAT SINK BLACK                  | 3                 | R4                   |
| 43        |                 | 1210001-00  | TRANSISTORS #10253               | 3                 |                      |
| 44        |                 | 9007201-00  | COMPOUND, THERMAL JOINT          | 3                 |                      |
| 45        |                 | 9008268-00  | CHOKE(CERAMIC BEAD)AXIAL LEAD,ON | 1                 | L6                   |
| 46        |                 | 1611257-01  | 33.0 OH INDUCTOR                 | 4                 | L2-L5                |
| 47        |                 | 1613898-01  | 39.0 OH INDUCTOR                 | 1                 | L1                   |
| 48        |                 | 1910268-00  | DEC 75107B RECEIVER,LINE,DUAL,   | 1                 | E8                   |
| 49        |                 | 1909686-00  | 7404 INVERTER GATE-HEX 11        | 1                 | E3                   |
| 50        |                 | 1910544-00  | 74574 FF-D DUAL,EDGE TRIGG       | 1                 | E2                   |
| 51        |                 | 1910544-00  | 733 DIFFERENTIAL AMP,WID         | 2                 | E9,E10               |
| 52        |                 | 1910644-00  | 7406 INVERTER GATE-HEX 11        | 1                 | E7                   |
| 53        |                 | 1910741-00  | 7432 OR GATE-QUAD 2IN, PO        | 1                 | E1                   |
| 54        |                 | 1911521-00  | DEC 75107B-01 RECEIVER,LINE,DUAL | 2                 | E5,E4                |
| 55        |                 | 1910268-01  | 75108B RECEIVER,LINE,DUAL,       | 1                 | E6                   |
| 56        |                 | 1910725-00  | HEADER,100 20POS RT ANGLE        | 1                 | J6                   |
| 57        |                 | 1209941-06  | HEADER                           | 1                 |                      |
| 58        |                 | 1209941-03  | HEADER                           | 1                 |                      |
| 59        |                 | 1209941-04  | RT ANGLE LEFT L                  | 1                 |                      |
| 60        |                 | 1210385-01  | PIN                              | 8                 |                      |
| 61        |                 | 9007791-00  | 1POS WIRE WRAP                   | 1                 | TP1,TP2              |
| 62        |                 | 1303067-00  | TERM PCB 1/4W 1% RN55D-F 100PPM  | 2                 | R42,R43              |
| 63        |                 | 1300219-00  | 422 .25 W 5.0 % CC               | 4                 | R7,R8,R47,R57        |
| 64        |                 | 1301423-00  | 68.0 .25 W 5.0 % CC              | 2                 | R15,R64,R67          |
| 65        |                 | 1300391-00  | 1.50 K .25 W 5.0 % CC            | 3                 | R17,R19              |
| 66        |                 | 111417-00   | IN 4152 PIV=450 I=75M            | 1                 | D2-D4                |
| 67        |                 | 1113003-00  | IN 5282 PIV=55 I=500M D035       | 4                 | D1-D14               |
| 68        |                 | 1015573-01  | 5600.0 MNE 50V 5% CER, \$        | 5                 | C3,C6,C7,C13,C14     |
| 69        |                 | 1304857-00  | 237 1/4W 1% RN55D-F 100PPM       | 1                 | R1                   |
| 70        |                 | 1300309-00  | 390.0 .25 W 5.0 % CC             | 1                 | R53                  |
| 71        |                 | 1013466-17  | 150 MNE 50V 5% CER               | 2                 | C15,C44              |
| 72        |                 | 1309185-07  | 2 K 1/2W10% POT 100PPM           | 2                 | R40,R41              |
| 73        |                 | 9009185-00  | JUMPER, WIRE, INSULATED, BLACK B | 2                 | W1,W2                |
| 74        |                 | 121737-00   | TERM QUICK 1POS TAB PC MNT       | 1                 | J7                   |

| D | I | G | I | T | A | L | TITLE            | SECTION A OF A | SIZE/PL | PL | 5413536-0-DBP | REV |
|---|---|---|---|---|---|---|------------------|----------------|---------|----|---------------|-----|
|   |   |   |   |   |   |   | READ/WRITE BOARD |                |         |    |               | B   |

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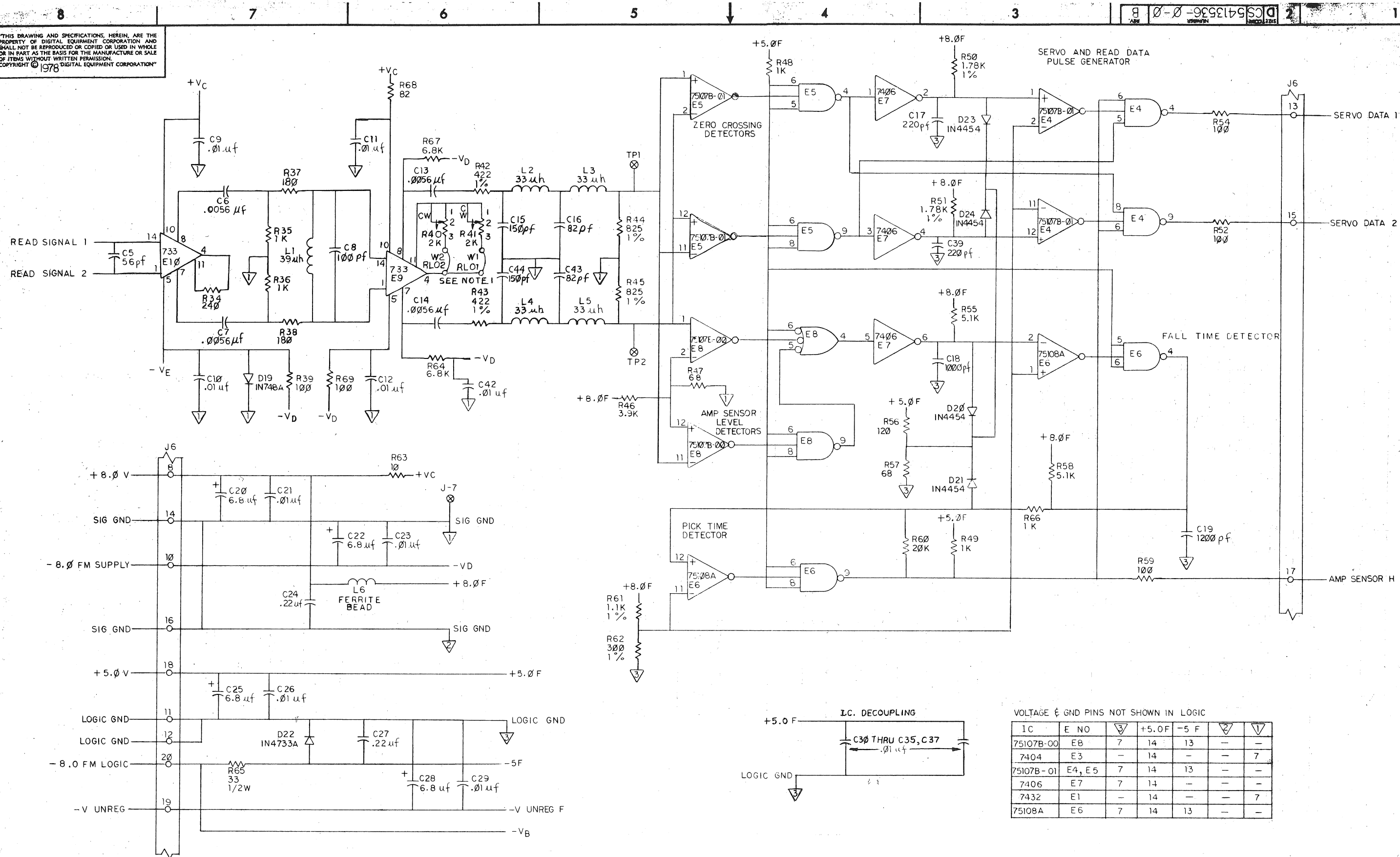


NOTE:  
1. FOR RLO1 CUT W2 AND LEAVE IN W1.  
FOR RLO2 CUT W1 AND LEAVE IN W2.

| REV. | CHG. | NO. | DATE    | BY        | CHK. |
|------|------|-----|---------|-----------|------|
| B    |      | 1   | 8/1/78  | M. ZARICH |      |
| A    |      | 1   | 7/27/78 | M. ZARICH |      |

|                    |            |               |                  |         |
|--------------------|------------|---------------|------------------|---------|
| DRN. B. Nichols    | 14 July 78 | FIRST USED ON | RLO2             | digital |
| CHK'D L. Roubin    | 8/1/78     | TITLE         | READ/WRITE BOARD |         |
| ENG. R. M. Jach    | 8/18/78    | SIZE          | D                |         |
| PROJ. ENG. J. Jach | 8/18/78    | CODE          | CS 5413536-0-1   |         |
| PROD. J. Jach      | 9/27/78    | NUMBER        | 8                | REV.    |
| NEXT HIGHER ASSY.  |            | SHEET         | 1 OF 2           |         |
| SCALE              |            | DIST.         |                  |         |

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VOLTAGE & GND PINS NOT SHOWN IN LOGIC

| IC        | E NO   | V | +5.0F | -5 F | V | V |
|-----------|--------|---|-------|------|---|---|
| 75107B-00 | E8     | 7 | 14    | 13   | - | - |
| 7404      | E3     | - | 14    | -    | - | 7 |
| 75107B-01 | E4, E5 | 7 | 14    | 13   | - | - |
| 7406      | E7     | 7 | 14    | -    | - | - |
| 7432      | E1     | - | 14    | -    | - | 7 |
| 75108A    | E6     | 7 | 14    | 13   | - | - |

| REVISIONS |            |      | TITLE            |  | SIZE CODE    |  | NUMBER      |  | REV. |  |
|-----------|------------|------|------------------|--|--------------|--|-------------|--|------|--|
| CHK       | CHANGE NO. | REV. | READ/WRITE BOARD |  | D CS         |  | 5413536-0-1 |  | B    |  |
|           |            |      | SCALE            |  | SHEET 2 OF 2 |  | DIST.       |  |      |  |



COMPONENT SIDE VIEW



| CHK | CHANGE NO            | REV |
|-----|----------------------|-----|
| AD  | 5411846-0001         | E   |
| AD  | REICHENBERG<br>CZ002 | F   |
| AD  | 5411846-<br>CX005    | H   |
| AD  | M ZARICH             | J   |
| AD  | 5411846-<br>CX006    |     |
| AD  | DG.29SEP80           |     |
| AD  | M.ZARICH             |     |

[illegible]

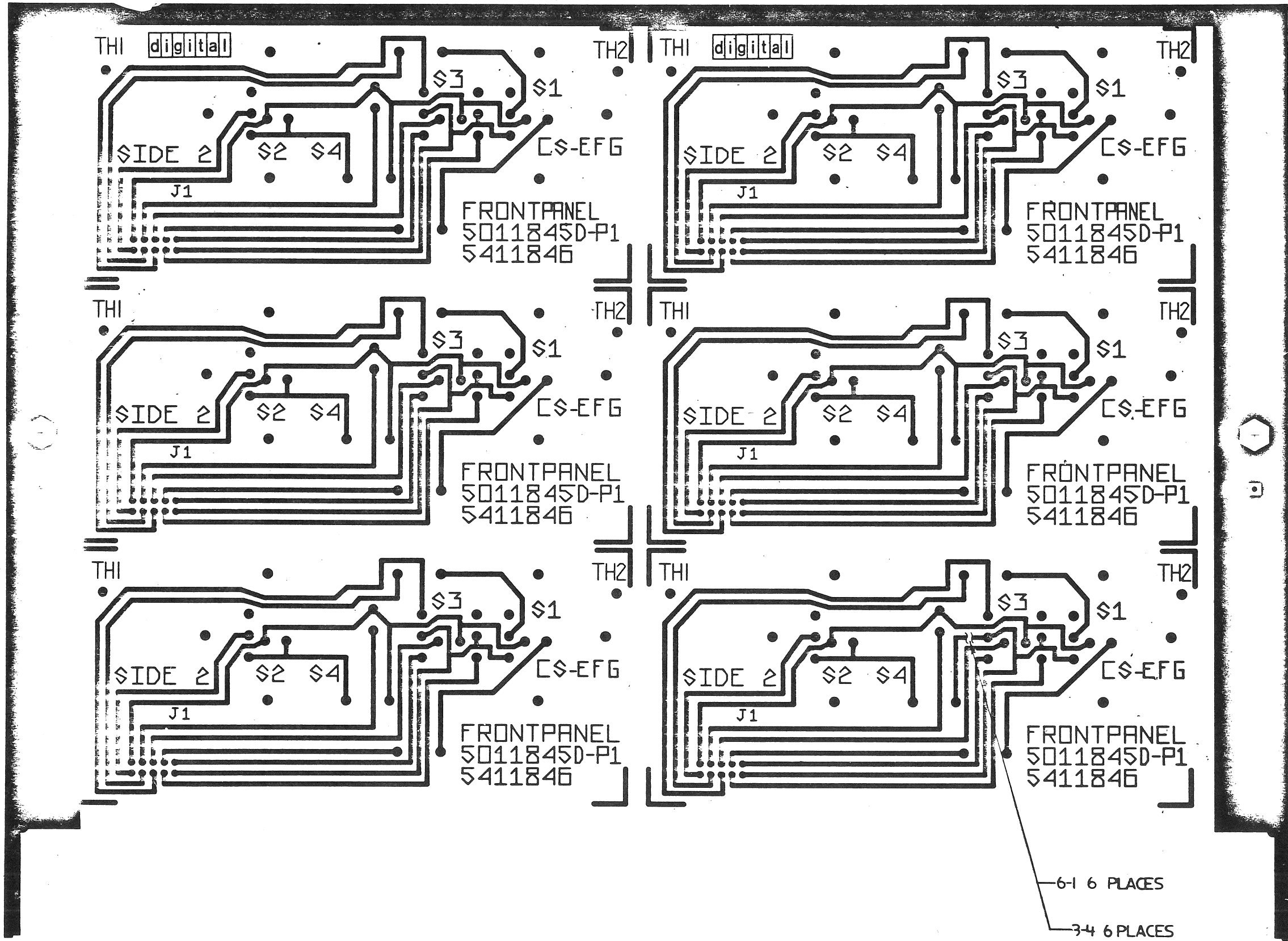
|                                      |  |                   |             |
|--------------------------------------|--|-------------------|-------------|
| SIGNATURES                           |  | DATE              | digital     |
| DRN. <i>MR. Riley</i>                |  | 11/5/76           |             |
| CHK'D. <i>Burnell</i>                |  | 1-11-77           |             |
| ENG. <i>A</i>                        |  | 3-7-77            |             |
| PROJ. ENG. <i>P. B. ...</i>          |  | 3/4/77            |             |
| PROD.                                |  |                   | TITLE       |
|                                      |  |                   | FRONT PANEL |
| SCALE <i>2/1</i>                     |  | SIZE              | CODE        |
| SHT. <i>1</i> OF <i>3</i>            |  | <i>D</i>          | <i>JA</i>   |
|                                      |  | NUMBER            | REV         |
|                                      |  | <i>541846-0-0</i> | <i>J</i>    |
| NEXT HIGH ASSY. <i>B-DD-541846-0</i> |  |                   |             |

1 MS#



1977

0-0-9481145 5411846-0-0



6-1 6 PLACES

3-4 6 PLACES

| OK | REVISIONS    |
|----|--------------|
|    | REVISION NO. |
|    | REV.         |

|       |             |           |                  |       |   |
|-------|-------------|-----------|------------------|-------|---|
| TITLE | FRONT PANEL | SIZE CODE | D UA 5411846-0-0 | REV.  | J |
| SCALE | NONE        | SHEET     | 2 OF 3           | DIST. |   |







| LINE ITEM | DOCUMENT NUMBER  | PART NUMBER | DESCRIPTION                      | QTY PER VARIATION | REFERENCE DESIGNATOR |
|-----------|------------------|-------------|----------------------------------|-------------------|----------------------|
| 1         | D-MD-5011845-0-0 | 5011845-00  | 54-11846 ETCH CRKT BRD           | 1                 |                      |
| 2         |                  | 1209941-05  | HEADER,100 10POS RT ANGLE        | 1                 | J1                   |
| 3         |                  | 1209941-04  | HEADER RT ANGLE,RIGHT            | 1                 |                      |
| 4         |                  | 1209941-03  | HEADER RT ANGLE LEFT L           | 1                 |                      |
| 5         |                  | 1212690-02  | SW,PB 1P RK06 UNIT SELECT        | 1                 | S3                   |
| 6         |                  | 1212691-00  | SW,PB CAP "O/READY" FOR 12-1     | 1                 |                      |
| 7         |                  | 1212714-05  | SW,PB CAP,YEL/BLK,"LOAD"         | 1                 |                      |
| 8         |                  | 1212714-01  | SW,PB CAP,YEL/BLK,"WRITE PROT"   | 1                 |                      |
| 9         |                  | 1212714-02  | SW,PB CAP,RED/BLK,"FAULT"        | 1                 |                      |
| 10        |                  | 1212715-02  | INDICATOR,DISPLAY PANEL,W/14V LA | 1                 | S4                   |
| 11        |                  | 1212717-05  | SW,PB 1P 3A W/14V LAMP           | 2                 | S1,S2                |
| 12        |                  | 1212716-01  | LAMP,WEDGE,14V                   | 1                 |                      |
| 13        |                  | 1213188-01  | MOUNTING BRACKET,SWITCH          | 1                 |                      |
| 14        |                  | 1301322-00  | 180.0 .25 W 5.0 % CC             | 1                 | R1                   |
| 15        |                  | 9006732-00  | EYELET, ROLLED FLANGE, .121 OD X | 2                 |                      |
| 16        |                  | 9107560-01  | WIRE,BUSS,22AWG                  | 2                 | W1,W2                |
| 17        |                  | 9006655-00  | WASHER, FLAT, .312 O.D. X .125 I | 2                 |                      |

[illegible]

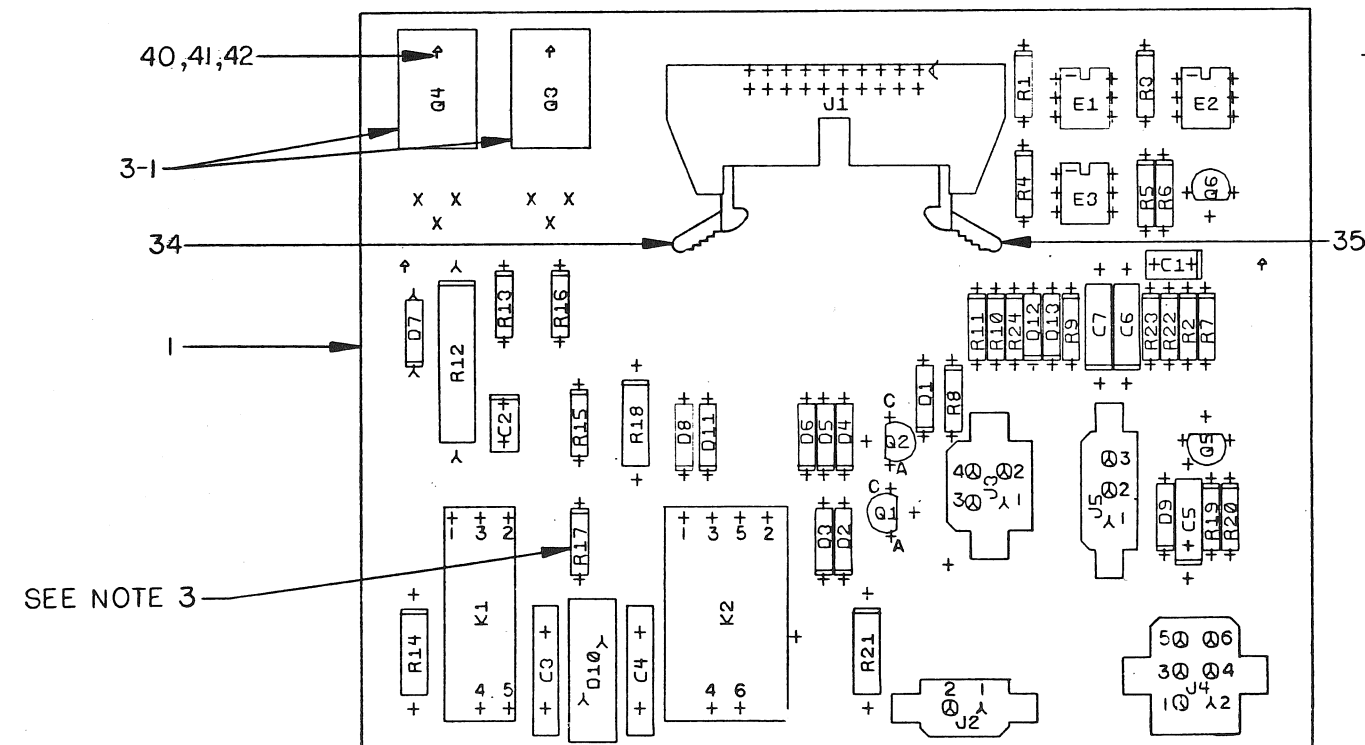
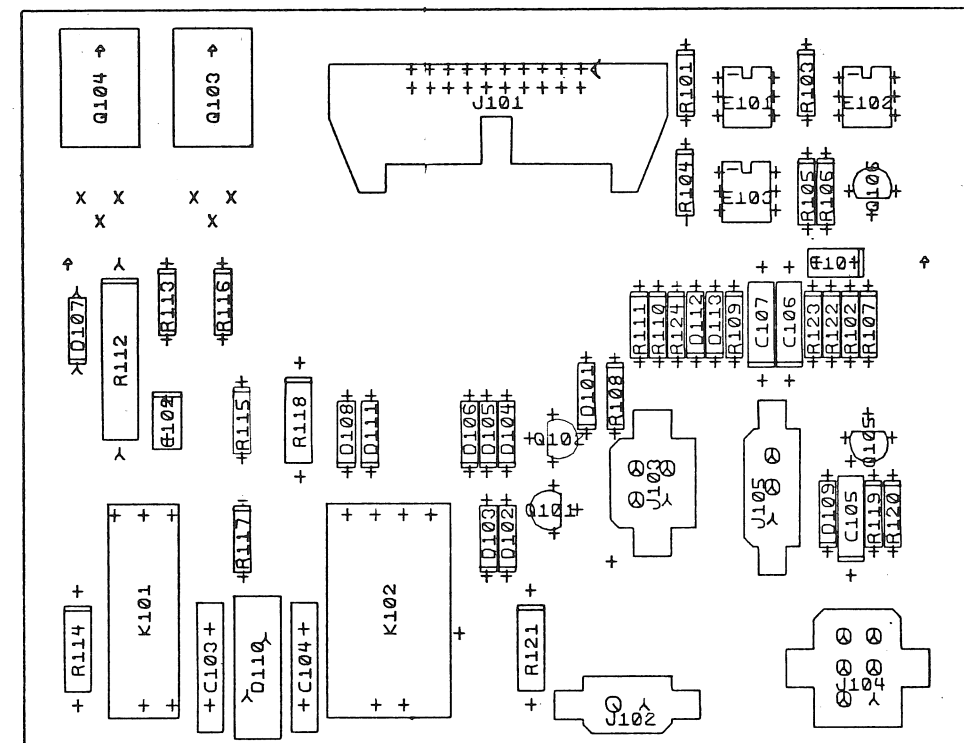


|                                     |                     |      |                |      |
|-------------------------------------|---------------------|------|----------------|------|
| DRN. <i>W. Hargis</i> 27 FEB 76     | FIRST USED ON _____ |      | <b>digital</b> |      |
| CHK'D <i>E. Enos</i> 1-11-77        | TITLE               |      |                |      |
| ENG. <i>J. Hargis</i> 3-7-77        | FRONT PANEL         |      |                |      |
| PROJ. ENG. <i>J. Hargis</i> 3-10-77 |                     |      |                |      |
| PROD. <i>J. Hargis</i> 3-9-77       |                     |      |                |      |
| NEXT HIGHER ASSY.                   |                     |      |                |      |
|                                     |                     |      |                |      |
| SCALE <i>1/2" = 1'</i>              | SIZE                | CODE | NUMBER         | REV. |
| SHEET <i>1</i> OF <i>1</i>          | DIST.               | CS   | 5411846-0-1    | K    |

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COMPONENT SIDE VIEW

| ACTUAL REF DESIGNATORS          | SUPERFICIAL REF DESIGNATORS                           |
|---------------------------------|-------------------------------------------------------|
| C1,C2,C3,C4,C5,C6,C7            | C101 , C102 , C103 , C104 , C105 , C106 , C107        |
| D1,D2,D3,D4,D5,D6,D7            | D101 , D102 , D103 , D104 , D105 , D106 , D107        |
| D8,D9,D10,D11,D12,D13           | D108 , D109 , D110 , D111 , D112 , D113               |
| E1,E2,E3                        | E101 , E102 , E103                                    |
| K1,K2,K3                        | K101 , K102 , K103                                    |
| J1,J2,J3,J4,J5                  | J101 , J102 , J103 , J104 , J105                      |
| Q1,Q2,Q3,Q4,Q5,Q6               | Q101 , Q102 , Q103 , Q104 , Q105 , Q106               |
| R1,R2,R3,R4,R5,R6,R7            | R101 , R102 , R103 , R104 , R105 , R106 , R107        |
| R8,R9,R10,R11,R12,R13,R14       | R108 , R109 , R110 , R111 , R112 , R113 , R114        |
| R15,R16,R17,R18,R19,R20,R21,R22 | R115 , R116 , R117 , R118 , R119 , R120 , R121 , R122 |



## NOTES:

- 8 HOLES .0465 (+.000-.0045) MAYNARD ONLY
- U/L APPROVAL REQUIRED
- REWORK INSTRUCTIONS:
  - REMOVE R17 (330Ω, 1/4W, 5%)
  - INSTALL R17 (330Ω, 1/2W, 5%)

|        |          |      |       |
|--------|----------|------|-------|
| STEP E | ↑ Y AXIS | STEP | TIMES |
| REPEAT | → X AXIS | STEP | TIMES |

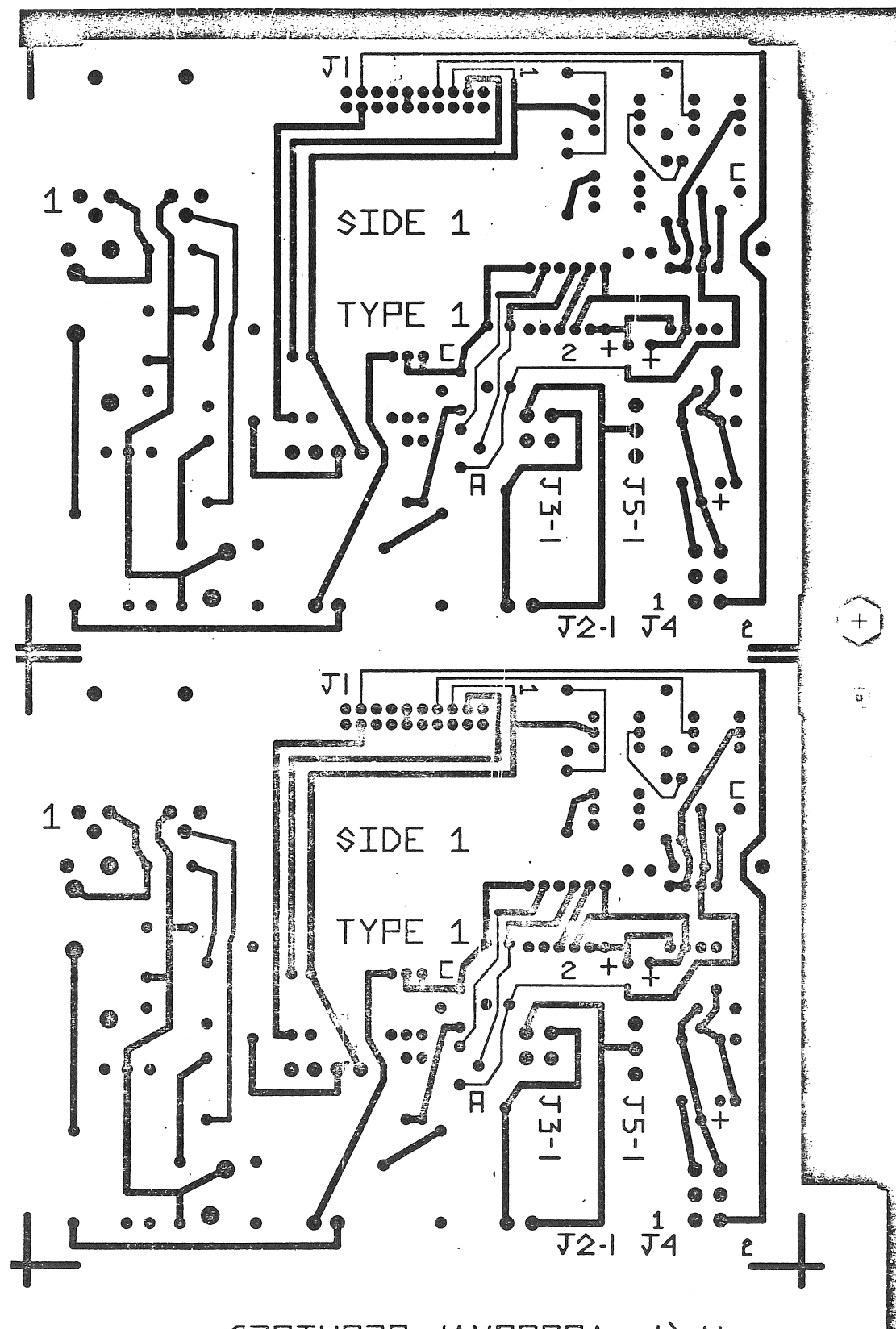
| CHK | CHANGE NO      | REV |  |  |  |
|-----|----------------|-----|--|--|--|
|     | 5411848-0001   | D   |  |  |  |
|     | P. BURNELL     |     |  |  |  |
|     | TO: HIG.       |     |  |  |  |
|     | 77 REICHENBERG |     |  |  |  |
|     | W.M. 5411848-  | E   |  |  |  |
|     | MAR 0X002      |     |  |  |  |
|     | MAR P. BURNELL |     |  |  |  |
|     | 78             |     |  |  |  |
|     | W.M. 5411848-  | F   |  |  |  |
|     | MAR 02 003     |     |  |  |  |
|     | MAR M ZARICH   |     |  |  |  |
|     | 79             |     |  |  |  |
|     | REDRAWN        |     |  |  |  |
|     | 5 JUNE 80      |     |  |  |  |

|                            |      |
|----------------------------|------|
| ETCH REV.                  | E-P2 |
| P.C. DESIGN DATA BASE REV. | E-P2 |

| SIGNATURES                       | DATE    |
|----------------------------------|---------|
| DRN. T. SHETRAWSKI               | 6-9-77  |
| CHK D. T. SHETRAWSKI             | 15-9-77 |
| MECH. ENG. G. RIECHENBERG        | 26-9-77 |
| PROJ. ENG. P. ARNOLD             | 26-9-77 |
| PROD. R. STROTT                  | 26-9-77 |
| SCALE 2/1                        |         |
| SHT. 1 OF 4                      |         |
| NEXT HIGHER ASSY. B-DD-5411848-0 |         |

|                  |        |
|------------------|--------|
| digital          |        |
| TITLE AC SERVO   |        |
| SIZE CODE        | NUMBER |
| 0 UA 5411848-0-0 | F      |
| REV              |        |

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U/L APPROVAL REQUIRED

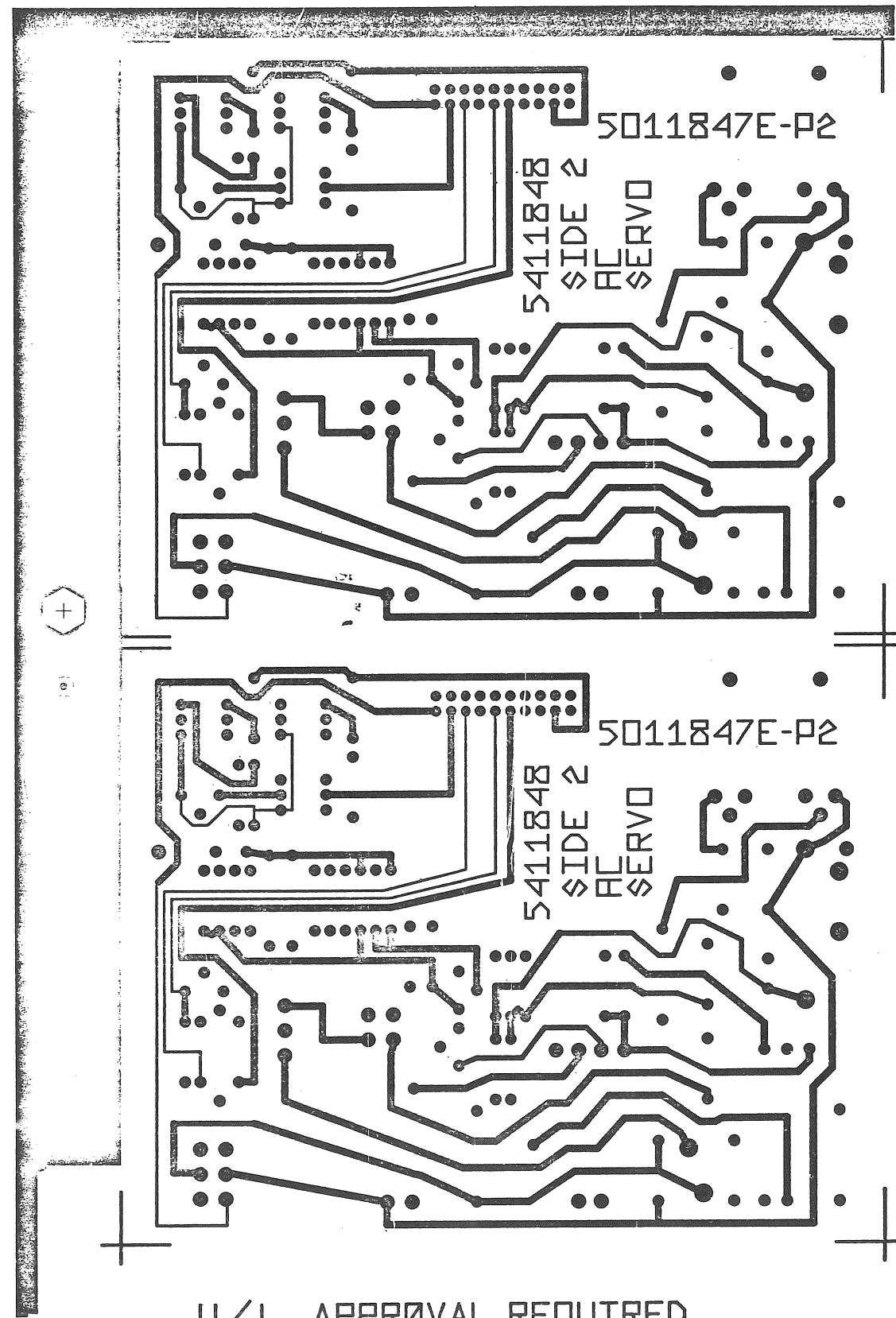
VIEWED FROM SIDE 1

| REVISIONS |           |     |
|-----------|-----------|-----|
| CHK       | CHANGE NO | REV |
|           |           |     |

|          |     |            |   |        |   |      |
|----------|-----|------------|---|--------|---|------|
| TITLE    |     | SIZE CODE  |   | NUMBER |   | REV. |
| AC SERVO |     | DUA 541848 |   | 0-0    |   | F    |
| SCALE    | 2:1 | SHEET      | 2 | OF     | 4 |      |



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U/L APPROVAL REQUIRED

VIEWED FROM SIDE 2

| REVISIONS |           |     |
|-----------|-----------|-----|
| CHK       | CHANGE NO | REV |
|           |           |     |

| TITLE     |              | SIZE CODE | NUMBER       | REV. |
|-----------|--------------|-----------|--------------|------|
| AC SERVO  |              | D UA      | 5411848 -0-0 | F    |
| SCALE 2:1 | SHEET 3 OF 4 | DIST.     |              |      |

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REWORK INSTRUCTIONS

3-1. CHANGE Q3 AND Q4 TO 1510070-00, ITEM 38.

| REVISIONS |            |      |
|-----------|------------|------|
| CHK       | CHANGE NO. | REV. |
|           |            |      |

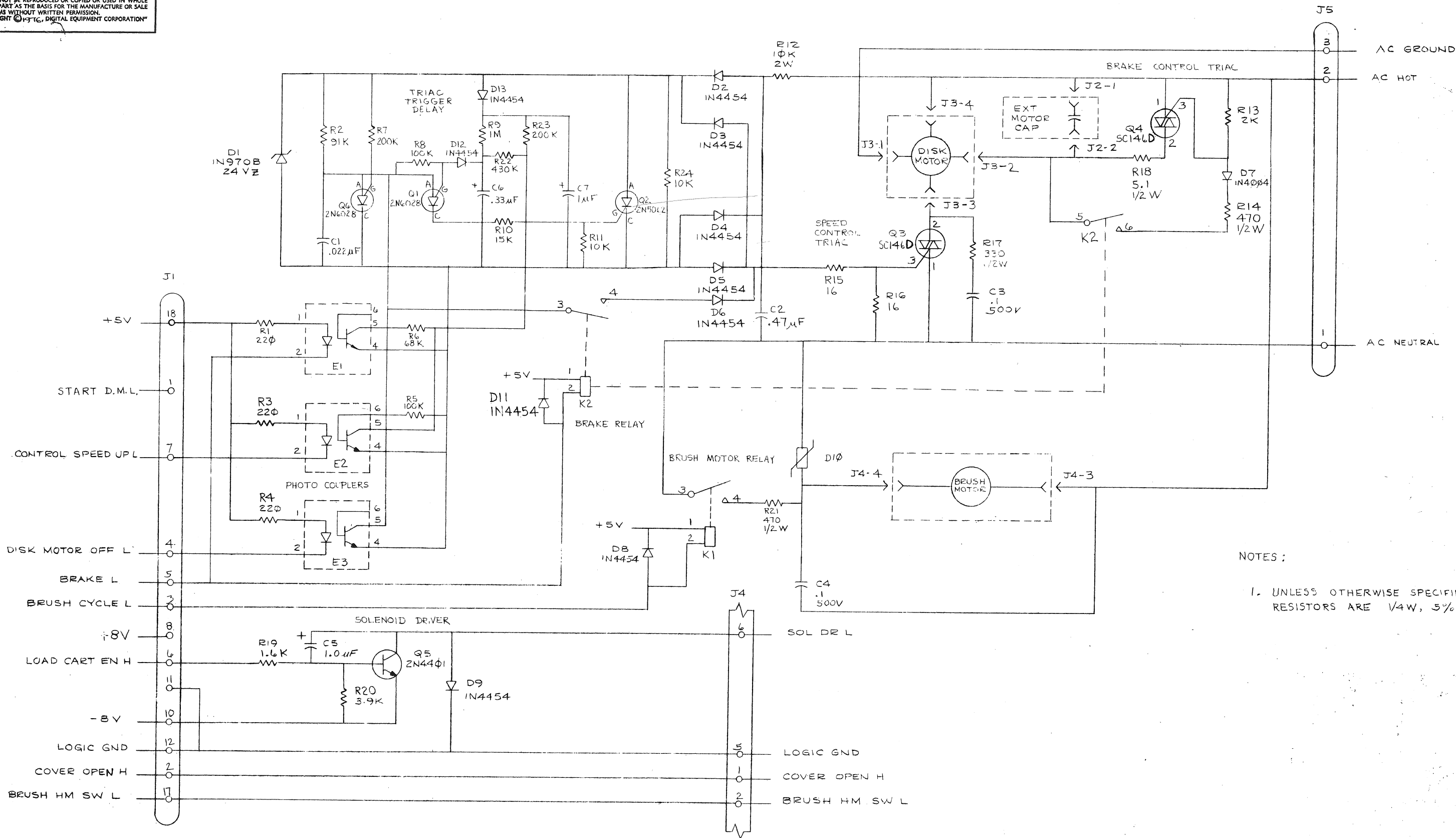
|                   |  |                   |                       |           |
|-------------------|--|-------------------|-----------------------|-----------|
| TITLE<br>AC SERVO |  | SIZE CODE<br>D UA | NUMBER<br>5411848-0-0 | REV.<br>F |
| SCALE             |  | SHEET 4 OF 4      |                       | DIST.     |



| LINE ITEM                                                                                                                                                                                                                                  | DOCUMENT NUMBER | PART NUMBER            | DESCRIPTION                     | QTY PER VARIATION | REFERENCE DESIGNATOR |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------|---------------------------------|-------------------|----------------------|
| 1                                                                                                                                                                                                                                          | 1               | D-MD-5011847-0-0       | ETCH CRKT BRD                   | 1                 | C1                   |
| 2                                                                                                                                                                                                                                          | 2               | 1011843-00             | .022 MFD 50V 1%, 67 DER.        | 1                 | C2                   |
| 3                                                                                                                                                                                                                                          | 3               | 1012312-01             | .47 MFD 50V XZ                  | 1                 | C3,C4                |
| 4                                                                                                                                                                                                                                          | 4               | 1013682-00             | 1 MFD 500V +80 -20% DER.        | 2                 | C5,C7                |
| 5                                                                                                                                                                                                                                          | 5               | 1001776-00             | 1 MFD 35V 10% S.TANT            | 2                 | D1                   |
| 6                                                                                                                                                                                                                                          | 6               | 1110856-00             | IN-9708-VZ=24.0 5% .40W Y       | 1                 | D2-D6,DB,D9,D11-D13  |
| 7                                                                                                                                                                                                                                          | 7               | 111577-00              | IN 4454 TR= 4NS PIV= 50 S       | 10                | D7                   |
| 8                                                                                                                                                                                                                                          | 8               | 1105796-00             | IN 4004 PIV=400 I= 1A D041 SP   | 1                 | E1-E3                |
| 9                                                                                                                                                                                                                                          | 9               | 1510727-01             | OPTO-COUPLED-ISOLATOR           | 3                 | K2                   |
| 10                                                                                                                                                                                                                                         | 10              | 1213917-00             | RLY,REED 5V COIL,DPDT           | 1                 | K1                   |
| 11                                                                                                                                                                                                                                         | 11              | 1213915-00             | RLY,REED, 5V COIL,SPDT          | 1                 | D10                  |
| 12                                                                                                                                                                                                                                         | 12              | 1110997-00             | VP-130A10-VOLT.-SUPPRESS-130VAC | 1                 | J1                   |
| 13                                                                                                                                                                                                                                         | 13              | 1209941-06             | HEADER,100 20POS RT ANGLE       | 1                 | J2                   |
| 14                                                                                                                                                                                                                                         | 14              | 1213922-00             | HEADER 2POS                     | 1                 | J3                   |
| 15                                                                                                                                                                                                                                         | 15              | 1213922-01             | HEADER 3POS                     | 1                 | J4                   |
| 16                                                                                                                                                                                                                                         | 16              | 1213922-03             | HEADER 4POS                     | 1                 | R1,R21               |
| 17                                                                                                                                                                                                                                         | 17              | 1213922-04             | HEADER 6POS                     | 1                 | R1,R3,R4             |
| 18                                                                                                                                                                                                                                         | 18              | 1300315-00             | 470 1/2W 5%                     | 2                 | R18                  |
| 19                                                                                                                                                                                                                                         | 19              | 1300271-00             | 220 1/4W 5%                     | 3                 | R6                   |
| 20                                                                                                                                                                                                                                         | 20              | 1311220-00             | 5.1 1/2W 5%                     | 1                 | R5,R8                |
| 21                                                                                                                                                                                                                                         | 21              | 1301327-00             | 68 K 1/4W 5%                    | 1                 | R20                  |
| 22                                                                                                                                                                                                                                         | 22              | 1302466-00             | 100 K 1/4W 5%                   | 2                 | R7,R23               |
| 23                                                                                                                                                                                                                                         | 23              | 1300444-00             | 3.9 K 1/4W 5%                   | 1                 | R10                  |
| 24                                                                                                                                                                                                                                         | 24              | 1314516-00             | 200 K 1/4W 5%                   | 2                 | R11,R24              |
| 25                                                                                                                                                                                                                                         | 25              | 1300496-00             | 15 K 1/4W 5%                    | 1                 | R12                  |
| 26                                                                                                                                                                                                                                         | 26              | 1300479-00             | 10 K 1/4W 5%                    | 2                 | R15,R16              |
| 27                                                                                                                                                                                                                                         | 27              | 1300482-00             | 10 K 2W 10%                     | 1                 | R22                  |
| 28                                                                                                                                                                                                                                         | 28              | 1312927-00             | 16 1/4W 5%                      | 2                 |                      |
| 29                                                                                                                                                                                                                                         | 29              | 1314649-00             | 430 K 1/4W 5%                   | 1                 |                      |
| REVISION HISTORY                                                                                                                                                                                                                           |                 |                        |                                 |                   |                      |
| 1                                                                                                                                                                                                                                          | 1               | BASIC PART NO: 5411848 | DRN: H. RICHER                  | DATE: 23 MAR 76   | D I G I T A L        |
| 2                                                                                                                                                                                                                                          | 2               | SECTION A OF A         | CHK'D: P. BURNELL               | DATE: 10 JAN 77   | PARTS LIST           |
| 3                                                                                                                                                                                                                                          | 3               | SECTION A OF A         | DES.ENG: P. BADUM               | DATE: 7 JUN 77    | AC-SERVO             |
| 4                                                                                                                                                                                                                                          | 4               | SECTION A OF A         | RESP.ENG.: P. BADUM             | DATE: 7 JUN 77    | DOCUMENT NUMBER      |
| 5                                                                                                                                                                                                                                          | 5               | SECTION A OF A         | MFG.ENG.: D. LESAGE             | DATE: 7 JUN 77    | SIZE-CODE: NUMBER    |
| 6                                                                                                                                                                                                                                          | 6               | SECTION A OF A         | ASSEMBLY NUMBER:                | DATE: 7 JUN 77    | REV                  |
| 7                                                                                                                                                                                                                                          | 7               | SECTION A OF A         | D-UA-5411848-0-0                | FILE NAME:        | EDIT #               |
| 8                                                                                                                                                                                                                                          | 8               | SECTION A OF A         |                                 | Z0491.PLS         | 3                    |
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| LINE ITEM                                                                                                                                                                                                                                  | DOCUMENT NUMBER | PART NUMBER            | DESCRIPTION                   | QTY PER VARIATION | REFERENCE DESIGNATOR |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------|-------------------------------|-------------------|----------------------|
| 30                                                                                                                                                                                                                                         | 30              | 1300296-00             | 330 1/2W 5%                   | 1                 | R17                  |
| 31                                                                                                                                                                                                                                         | 31              | 1302388-00             | 2 K 1/4W 5%                   | 1                 | R13                  |
| 32                                                                                                                                                                                                                                         | 32              | 1309595-00             | 1 M 1/4W 5%                   | 1                 | R9                   |
| 33                                                                                                                                                                                                                                         | 33              | 1303176-00             | 1.6 K 1/4W 5%                 | 1                 | R19                  |
| 34                                                                                                                                                                                                                                         | 34              | 1209941-03             | HEADER RT ANGLE LEFT L        | 1                 | J1                   |
| 35                                                                                                                                                                                                                                         | 35              | 1209941-04             | HEADER RT ANGLE,RIGHT         | 1                 | J1                   |
| 36                                                                                                                                                                                                                                         | 36              | 1510977-00             | 2N 4028 UJT 300MW R57B        | 2                 | Q1,Q6                |
| 37                                                                                                                                                                                                                                         | 37              | 1110968-00             | 2N 5062 SCRT100V I=.8A T092   | 1                 | Q2                   |
| 38                                                                                                                                                                                                                                         | 38              | 1510070-00             | TRIACQ400V,I> BA #RCA40669 M  | 2                 | Q3,Q4                |
| 39                                                                                                                                                                                                                                         | 39              | 1513489-00             | 2N 4401 NPN 350MW SI-40-20    | 1                 | Q5                   |
| 40                                                                                                                                                                                                                                         | 40              | 9006557-00             | NUT,KEP 4-40X 1/4 AF          | 2                 | Q3,Q4                |
| 41                                                                                                                                                                                                                                         | 41              | 9006010-01             | SCREW,PAN,PHIL, 4-40X 5/16    | 2                 | Q3,Q4                |
| 42                                                                                                                                                                                                                                         | 42              | 9006655-00             | WASHER,FLAT,312-0-D,X.125-I   | 2                 | Q3,Q4                |
| 43                                                                                                                                                                                                                                         | 43              |                        | *** THIS ITEM IS NOT USED *** |                   |                      |
| 44                                                                                                                                                                                                                                         | 44              | 1000002-04             | .33 MFD 35V 10% .150D S.TA    | 1                 | C6                   |
| 45                                                                                                                                                                                                                                         | 45              | 1314650-00             | 91 K 1/4W 5%                  | 1                 | R2                   |
| REVISION HISTORY                                                                                                                                                                                                                           |                 |                        |                               |                   |                      |
| 1                                                                                                                                                                                                                                          | 1               | BASIC PART NO: 5411848 | DRN: H. RICHER                | DATE: 23 MAR 76   | D I G I T A L        |
| 2                                                                                                                                                                                                                                          | 2               | SECTION A OF A         | CHK'D: P. BURNELL             | DATE: 10 JAN 77   | PARTS LIST           |
| 3                                                                                                                                                                                                                                          | 3               | SECTION A OF A         | DES.ENG: P. BADUM             | DATE: 7 JUN 77    | AC-SERVO             |
| 4                                                                                                                                                                                                                                          | 4               | SECTION A OF A         | RESP.ENG.: P. BADUM           | DATE: 7 JUN 77    | DOCUMENT NUMBER      |
| 5                                                                                                                                                                                                                                          | 5               | SECTION A OF A         | MFG.ENG.: D. LESAGE           | DATE: 7 JUN 77    | SIZE-CODE: NUMBER    |
| 6                                                                                                                                                                                                                                          | 6               | SECTION A OF A         | ASSEMBLY NUMBER:              | DATE: 7 JUN 77    | REV                  |
| 7                                                                                                                                                                                                                                          | 7               | SECTION A OF A         | D-UA-5411848-0-0              | FILE NAME:        | EDIT #               |
| 8                                                                                                                                                                                                                                          | 8               | SECTION A OF A         |                               | Z0491.PLS         | 3                    |
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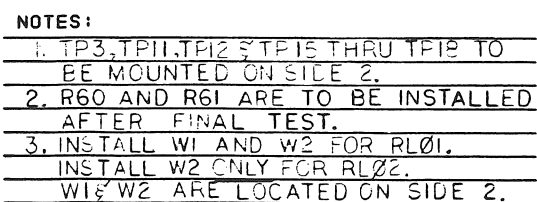


NOTES:

1. UNLESS OTHERWISE SPECIFIED:  
RESISTORS ARE 1/4W, 5%

| REV. | CHG. | NO. | DATE | BY | CHK. |
|------|------|-----|------|----|------|
| 1    | 1    | 1   | 1    | 1  | 1    |
| 2    | 2    | 2   | 2    | 2  | 2    |
| 3    | 3    | 3   | 3    | 3  | 3    |
| 4    | 4    | 4   | 4    | 4  | 4    |
| 5    | 5    | 5   | 5    | 5  | 5    |
| 6    | 6    | 6   | 6    | 6  | 6    |
| 7    | 7    | 7   | 7    | 7  | 7    |
| 8    | 8    | 8   | 8    | 8  | 8    |
| 9    | 9    | 9   | 9    | 9  | 9    |
| 10   | 10   | 10  | 10   | 10 | 10   |
| 11   | 11   | 11  | 11   | 11 | 11   |
| 12   | 12   | 12  | 12   | 12 | 12   |
| 13   | 13   | 13  | 13   | 13 | 13   |
| 14   | 14   | 14  | 14   | 14 | 14   |
| 15   | 15   | 15  | 15   | 15 | 15   |
| 16   | 16   | 16  | 16   | 16 | 16   |
| 17   | 17   | 17  | 17   | 17 | 17   |
| 18   | 18   | 18  | 18   | 18 | 18   |
| 19   | 19   | 19  | 19   | 19 | 19   |
| 20   | 20   | 20  | 20   | 20 | 20   |

|                    |               |        |             |
|--------------------|---------------|--------|-------------|
| DRN. 3/16/76       | FIRST USED ON | RLO1   | digital     |
| CHK'D 3/16/76      | ENG. 3/16/76  | 6-8-77 | TITLE       |
| PROJ. ENG. 3/16/76 | PROD. 3/16/76 | 4/7/77 | AC SERVO    |
| NEXT HIGHER ASSY.  | SIZE          | CODE   | NUMBER      |
| D-UA-5411848-0-0   | D             | CS     | 5411848-0-1 |
| SCALE 1:1          | SHEET 1       | OF 1   | DIST.       |



| CHK                                                                         | CHANGE NO | REV |
|-----------------------------------------------------------------------------|-----------|-----|
| 5413534-02001<br>BOB, NOGUCHI<br>M.B. ALP<br>5413534-<br>CX02A<br>M. ZARICH | B<br>C    |     |

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| ETCH REV. B                   |
| P.C. DESIGN DATA BASE REV. EL |

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|----------------------------------|--|---------|--------------------------------------------|--|--|--|
| SIGNATURES                       |  | DATE    | digital                                    |  |  |  |
| DRN. time & hand                 |  | 4-27-75 | TITLE DC SERVO<br>& POWER SUPPLY           |  |  |  |
| CHK'D. by [unclear]              |  |         |                                            |  |  |  |
| ENG. and [unclear]               |  |         |                                            |  |  |  |
| PROJ. ENG. [unclear]             |  |         |                                            |  |  |  |
| PROD. [unclear]                  |  | 5-22-75 | SIZE CODE NUMBER REV<br>D UA 5413534-0-0 C |  |  |  |
| SCALE 2/1                        |  |         |                                            |  |  |  |
| SHT. 1 OF 1                      |  |         |                                            |  |  |  |
| NEXT HIGHER ASSY. 8-DD-5413534-0 |  |         |                                            |  |  |  |



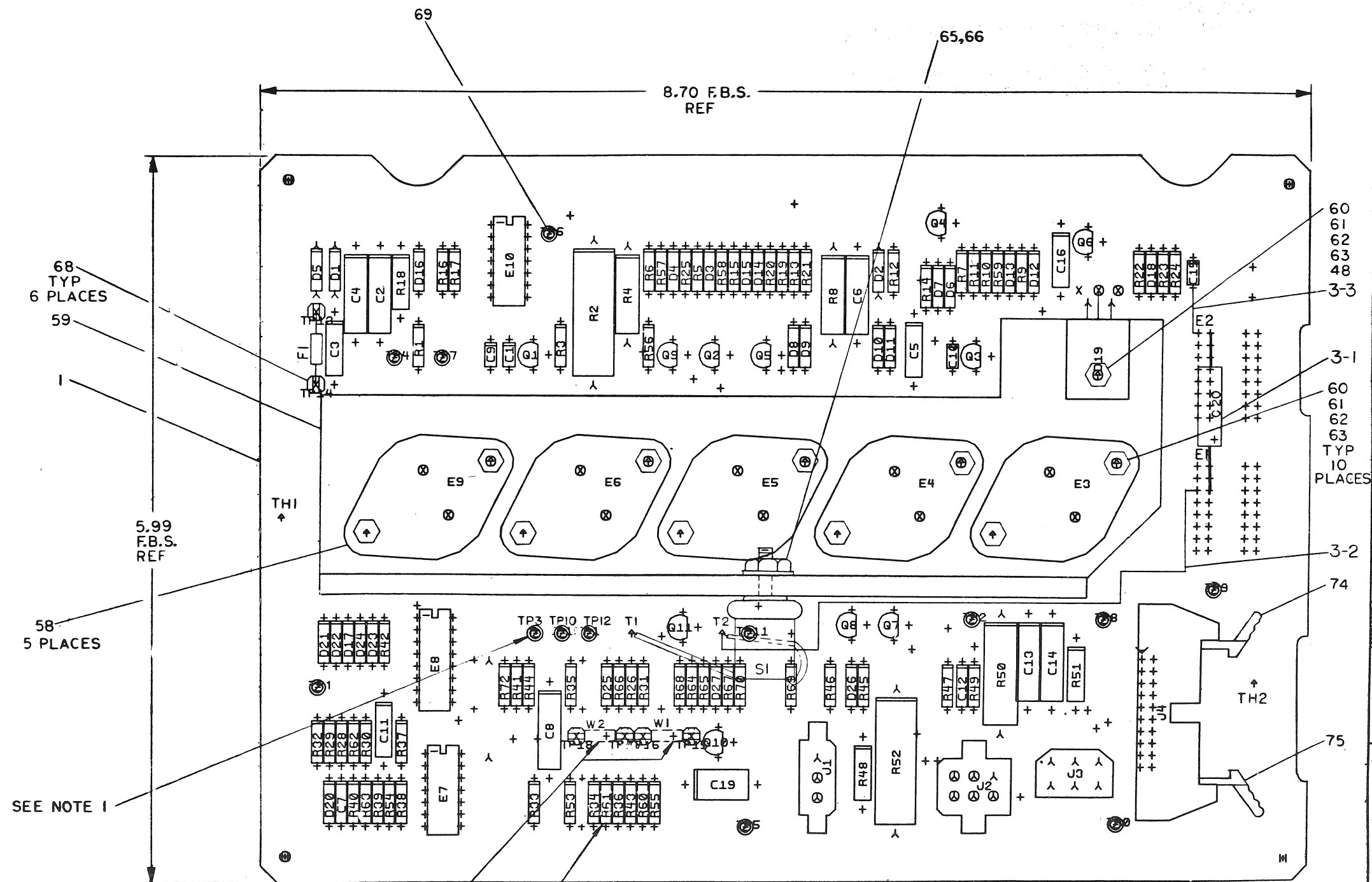
| LINE ITEM                                                                                                                                                                                                                                                                                    | DOCUMENT NUMBER  | PART NUMBER             | DESCRIPTION                   | QTY PER VARIATION    | REFERENCE DESIGNATOR            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------|-------------------------------|----------------------|---------------------------------|
| 1                                                                                                                                                                                                                                                                                            | D-MD-5013533-0-0 | 5013533-00              | ETCHED CIRCUIT BOARD          | 1                    | C12                             |
| 2                                                                                                                                                                                                                                                                                            |                  | 680.0 MMF               | 50V 10% CER.                  | 1                    | C7                              |
| 3                                                                                                                                                                                                                                                                                            |                  | 2200 MMF                | 50V 5% CER.                   | 1                    | C1                              |
| 4                                                                                                                                                                                                                                                                                            |                  | .01 MFD                 | 50V -20+80 Z5U AXIAL          | 4                    | C9,C10,C15                      |
| 5                                                                                                                                                                                                                                                                                            |                  | 1001610-00              |                               | 1                    | C8                              |
| 6                                                                                                                                                                                                                                                                                            |                  | 1002630-00              | 100V 10% 630UM MYLR           | 1                    | C3,C5,C11,C16                   |
| 7                                                                                                                                                                                                                                                                                            |                  | 1013466-11              | 50V +80/-20% CER.             | 4                    | C4,C6,C13,C14                   |
| 8                                                                                                                                                                                                                                                                                            |                  | 1005306-00              | 6.8MFD 35V 10% S.TANT         | 4                    | C2                              |
| 9                                                                                                                                                                                                                                                                                            |                  | 1000076-00              | 39 MFD 10V 10% 150D S.TA      | 1                    | R58                             |
| 10                                                                                                                                                                                                                                                                                           |                  | 1309422-00              | 5.1 1/4W 5% CC                | 1                    | R3,R23                          |
| 11                                                                                                                                                                                                                                                                                           |                  | 1312929-00              | 62 1/4W 5% CC                 | 2                    | R22                             |
| 12                                                                                                                                                                                                                                                                                           |                  | 1311523-00              | 110 1/4W 5% CC                | 1                    | R13                             |
| 13                                                                                                                                                                                                                                                                                           |                  | 1300247-00              | 120 1/4W 5% CC                | 1                    | R59                             |
| 14                                                                                                                                                                                                                                                                                           |                  | 1300271-00              | 220 1/4W 5% CC                | 1                    | R55                             |
| 15                                                                                                                                                                                                                                                                                           |                  | 1301425-00              | 300 1/4W 5% CC                | 1                    | R6                              |
| 16                                                                                                                                                                                                                                                                                           |                  | 1303178-00              | 620 1/4W 5% CC                | 1                    | R1,R7,R39,R44,R57               |
| 17                                                                                                                                                                                                                                                                                           |                  | 1300365-00              | 1 K 1/4W 5% CC                | 5                    | R5                              |
| 18                                                                                                                                                                                                                                                                                           |                  | 1300391-00              | 1.5 K 1/4W 5% CC              | 1                    | R31,R43                         |
| 19                                                                                                                                                                                                                                                                                           |                  | 1302388-00              | 2 K 1/4W 5% CC                | 2                    | R46,R47                         |
| 20                                                                                                                                                                                                                                                                                           |                  | 1300426-00              | 2.7 K 1/4W 5% CC              | 2                    | R53                             |
| 21                                                                                                                                                                                                                                                                                           |                  | 1302389-00              | 4.3 K 1/4W 5% CC              | 1                    | R10-R12,R14,R15,R19,R20,R24,R49 |
| 22                                                                                                                                                                                                                                                                                           |                  | 1300447-00              | 4.7 K 1/4W 5% CC              | 10                   | R48                             |
| 23                                                                                                                                                                                                                                                                                           |                  | 1303179-00              | 8.2 K 1/4W 5% CC              | 3                    | R9,R16,R17                      |
| 24                                                                                                                                                                                                                                                                                           |                  | 1300488-00              | 12 K 1/4W 5% CC               | 4                    | R25,R26,R45,R56                 |
| 25                                                                                                                                                                                                                                                                                           |                  | 1305346-00              | 27 K 1/4W 5% CC               | 1                    | R21                             |
| 26                                                                                                                                                                                                                                                                                           |                  | 1305131-00              | *** THIS ITEM IS NOT USED *** | -                    |                                 |
| 27                                                                                                                                                                                                                                                                                           |                  | 1312923-00              | 2.10 K 1/4W 1% RN55D-F 100PPM | 1                    | R41                             |
| 28                                                                                                                                                                                                                                                                                           |                  | 1305114-00              | 3.48 K 1/4W 1% RN55D-F 100PPM | 1                    | R34                             |
| 29                                                                                                                                                                                                                                                                                           |                  | 1314763-00              | 4.12 K 1/4W 1% RN55D-F 100PPM | 1                    | R36                             |
| 30                                                                                                                                                                                                                                                                                           |                  | 1303312-00              | 10.0 K 1/4W 1% RN55D-F 100PPM | 3                    | R28,R29,R62                     |
| CONT                                                                                                                                                                                                                                                                                         |                  |                         |                               |                      |                                 |
| 31                                                                                                                                                                                                                                                                                           |                  | 1303179-00              | 8.2 K 1/4W 5% CC              | 3                    | R9,R16,R17                      |
| 32                                                                                                                                                                                                                                                                                           |                  | 1300488-00              | 12 K 1/4W 5% CC               | 4                    | R25,R26,R45,R56                 |
| 33                                                                                                                                                                                                                                                                                           |                  | 1305346-00              | 27 K 1/4W 5% CC               | 1                    | R21                             |
| 34                                                                                                                                                                                                                                                                                           |                  | 1305131-00              | *** THIS ITEM IS NOT USED *** | -                    |                                 |
| 35                                                                                                                                                                                                                                                                                           |                  | 1312923-00              | 2.10 K 1/4W 1% RN55D-F 100PPM | 1                    | R41                             |
| 36                                                                                                                                                                                                                                                                                           |                  | 1305114-00              | 3.48 K 1/4W 1% RN55D-F 100PPM | 1                    | R34                             |
| 37                                                                                                                                                                                                                                                                                           |                  | 1314763-00              | 4.12 K 1/4W 1% RN55D-F 100PPM | 1                    | R36                             |
| 38                                                                                                                                                                                                                                                                                           |                  | 1303312-00              | 10.0 K 1/4W 1% RN55D-F 100PPM | 3                    | R28,R29,R62                     |
| PARTS LIST                                                                                                                                                                                                                                                                                   |                  |                         |                               |                      |                                 |
| 39                                                                                                                                                                                                                                                                                           |                  | BASIC PART NO: 5413534  | JERRY BEST                    | DATE: 26-JUL-78      | D I G I T A L                   |
| 40                                                                                                                                                                                                                                                                                           |                  | SECTION A OF A          | JERRY BEST                    | DATE: 26-JUL-78      | TITLE                           |
| 41                                                                                                                                                                                                                                                                                           |                  | SECTION,VARIATION INDEX | JERRY BEST                    | DATE: 26-JUL-78      | D.C. SERVO AND POWER SUPPLY     |
| 42                                                                                                                                                                                                                                                                                           |                  | CAJ 00                  |                               | DATE:                | DOCUMENT NUMBER                 |
| 43                                                                                                                                                                                                                                                                                           |                  | CBJ                     | DES.ENG: R. NOGUCHI           | DATE:                | SIZE CODE: NUMBER               |
| 44                                                                                                                                                                                                                                                                                           |                  | CCJ                     |                               | DATE:                | K PL 5413534-O-DBP B            |
| 45                                                                                                                                                                                                                                                                                           |                  | CDJ                     |                               | DATE:                | FILE NAME: EDIT #               |
| 46                                                                                                                                                                                                                                                                                           |                  | CEJ                     | RESP.ENG.: R. NOGUCHI         | DATE: 26-JUL-78      | Z0494B.PLS 13                   |
| 47                                                                                                                                                                                                                                                                                           |                  | CFJ                     |                               | DATE:                |                                 |
| 48                                                                                                                                                                                                                                                                                           |                  | CHJ                     | MFG.ENG.: P. CHURCH           | DATE:                |                                 |
| 49                                                                                                                                                                                                                                                                                           |                  | CJJ                     | ASSEMBLY NUMBER:              | TOP DOCUMENT NUMBER: |                                 |
| 50                                                                                                                                                                                                                                                                                           |                  | CKJ                     | ID-UA-5413534-0-0             | IRLOZ                |                                 |
| 51                                                                                                                                                                                                                                                                                           |                  | CLJ                     |                               |                      |                                 |
| 52                                                                                                                                                                                                                                                                                           |                  | CMJ                     |                               |                      |                                 |
| 53                                                                                                                                                                                                                                                                                           |                  | CNJ                     |                               |                      |                                 |
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| LINE | ITEM | DOCUMENT | NUMBER | PART       | NUMBER | DESCRIPTION                      | QTY | PER | VARIATION | REFERENCE                   | DESIGNATOR |
|------|------|----------|--------|------------|--------|----------------------------------|-----|-----|-----------|-----------------------------|------------|
|      |      |          |        |            |        |                                  | 00  |     |           |                             |            |
| 30   | 30   |          |        | 1312924-00 |        | 10.7 K 1/4W 1% RN55D-F 100PPM    | 1   |     |           | R32                         |            |
| 31   | 31   |          |        | 1309412-00 |        | 18.2 K 1/4W 1% RN55D-F 100PPM    | 1   |     |           | R33                         |            |
| 32   | 32   |          |        | 1315436-00 |        | 52.3 K 1% RN55D-F 100PPM         | 1   |     |           | R54                         |            |
| 33   | 33   |          |        | 1304843-00 |        | 243 K 1/4W 1% RN55D-F 100PPM     | 1   |     |           | R72                         |            |
| 34   | 34   |          |        | 1315437-00 |        | 237 K 1% RN55D-F 100PPM          | 1   |     |           | R38                         |            |
| 35   | 35   |          |        | 1302378-00 |        | 51 1/2W 5% CC                    | 1   |     |           | R51                         |            |
| 36   | 36   |          |        | 1300364-00 |        | 1 K 1/2W 5% CC                   | 2   |     |           | R18,R48                     |            |
| 37   | 37   |          |        | 1314068-00 |        | 360 1W 5% CC                     | 1   |     |           | R4                          |            |
| 38   | 38   |          |        | 1300368-00 |        | 1 K 1W 5% CC                     | 1   |     |           | R8                          |            |
| 39   | 39   |          |        | 1301494-00 |        | 200 2W 5% CC                     | 1   |     |           | R50                         |            |
| 40   | 40   |          |        | 1313358-00 |        | .2 5W 3% WW                      | 2   |     |           | R2,R52                      |            |
| 41   | 41   |          |        | 1105796-00 |        | 1N 4004 PIV=400 I= 1A D041 SP    | 3   |     |           | D1,D2,D5                    |            |
| 42   | 42   |          |        | 1113953-00 |        | 1N 5523D VZ= 5.1 1% 1% 5% .40W P | 8   |     |           | D4,D6,D8,D9,D16,D18,D21,D22 |            |
| 43   | 43   |          |        | 1109999-00 |        | 1N 757A VZ= 9.1 5% .40W          | 2   |     |           | D23,D24                     |            |
| 44   | 44   |          |        | 1110994-00 |        | 1N 751A VZ= 5.1 5% .40W          | 1   |     |           | D14                         |            |
| 45   | 45   |          |        | 1114117-00 |        | 1N 4152 PIV=450 I=75M            | 6   |     |           | D3,D7,D10,D11,D12,D13       |            |
| 46   | 46   |          |        | 1111577-00 |        | 1N 4454 TR= 4NS PIV= 50 S        | 6   |     |           | D15,D17,D20,D25-D27         |            |
| 47   | 47   |          |        | 1513698-00 |        | TRIAC200V,I>14A                  | 1   |     |           | D19                         |            |
| 48   | 48   |          |        | 9009597-00 |        | INSULATOR, THERMA-FILM \$        | 1   |     |           | Q2,Q4,Q8,Q9                 |            |
| 49   | 49   |          |        | 1513489-00 |        | 2N 4401 NPN 350MW SI 40 20       | 4   |     |           | Q1,Q3,Q5-Q7,Q11             |            |
| 50   | 50   |          |        | 1513490-00 |        | 2N 4403 PNP 350MW SI-40 30       | 2   |     |           | E4,E6                       |            |
| 51   | 51   |          |        | 1511282-00 |        | MJ2500 PNP 150WC SI 60 5 1K 5A   | 6   |     |           | E3                          |            |
| 52   | 52   |          |        | 1511349-00 |        | TIP 640 (OR MJ3000) NPN DARLNGT  | 1   |     |           | E8                          |            |
| 53   | 53   |          |        | 1911706-00 |        | 5012 ANALOG SWITCH,4CHNL         | 1   |     |           | E10                         |            |
| 54   | 54   |          |        | 1912818-00 |        | LS38 NAND BUFFER-QUAD 2IN        | 1   |     |           | E7                          |            |
| 55   | 55   |          |        | 1912107-01 |        | 324ANOP AMP,QUAD                 | 1   |     |           | E9                          |            |
| 56   | 56   |          |        | 1913695-00 |        | 7808 VOLT,REG,FX +               | 1   |     |           | E5                          |            |
| 57   | 57   |          |        | 1913694-00 |        | 7908 VOLT,REG,FX -               | 1   |     |           |                             |            |
| 58   | 58   |          |        | 9008419-00 |        | WASHER, FLAT, THERMAFILM .002THK | 5   |     |           |                             |            |
| 59   | 59   |          |        | 7418595-00 |        | HEATSINK ASSEMBLY                | 1   |     |           |                             |            |
| 60   | 60   |          |        | 9008033-01 |        | SCREW,PAN,PHIL, 4-40X 9/16       | 11  |     |           |                             |            |
| 61   | 61   |          |        | 9006557-00 |        | NUT,KEP, 4-40X 1/4 AF            | 11  |     |           |                             |            |
| 62   | 62   |          |        | 9006655-00 |        | WASHER, FLAT, .312 O.D. X .125 I | 11  |     |           |                             |            |
| 63   | 63   |          |        | 9008368-00 |        | COMPOUND, THERMAL JOINT \$       | A/R |     |           |                             |            |
| 64   | 64   |          |        | 1210824-00 |        | THERMOSTAT,00215,C0156,SPST      | 1   |     |           | S1                          |            |
| 65   | 65   |          |        | 9008185-00 |        | NUT,KEP, 6-32X1/4 AF             | 1   |     |           |                             |            |
| 66   | 66   |          |        | 9006653-00 |        | WASHER, FLAT, .375 O.D. X .156 I | 1   |     |           | F1                          |            |
| 67   | 67   |          |        | 1205747-00 |        | FUSE, SUB-MINI, 5.000A, 125V, A  | 1   |     |           | TP13-TP18                   |            |
| 68   | 68   |          |        | 9004735-00 |        | EYELET, FUNNEL FLANGE, .059 OD X | 6   |     |           | TP0-TP12                    |            |
| 69   | 69   |          |        | 9007791-00 |        | TERM PCB 2POS SOLDER,TURRET      | 13  |     |           | J1                          |            |
| 70   | 70   |          |        | 1213922-01 |        | HEADER 3POS                      | 1   |     |           | J2                          |            |
| 71   | 71   |          |        | 1213922-04 |        | HEADER 6POS                      | 1   |     |           | J3                          |            |
| 72   | 72   |          |        | 1213900-00 |        | CONN,RCPT 6PIN                   | 1   |     |           | J4                          |            |
| 73   | 73   |          |        | 1209941-06 |        | HEADER,100 20POS RT ANGLE        | 1   |     |           |                             |            |
| 74   | 74   |          |        | 1209941-04 |        | HEADER RT ANGLE,RIGHT            | 1   |     |           |                             |            |
| 75   | 75   |          |        | 1209941-03 |        | HEADER RT ANGLE LEFT L           | 1   |     |           |                             |            |
| 76   | 76   |          |        | 1305324-00 |        | 4.99 K 1/4W 1% RN55D-F 100PPM    | 2   |     |           | R37,R30                     |            |
| 77   | 77   |          |        | 130250-00  |        | 150 1/4W 5% CC                   | 1   |     |           | R42                         |            |
|      |      |          |        |            |        |                                  |     |     |           |                             |            |
|      |      |          |        |            |        |                                  |     |     |           |                             |            |
|      |      |          |        |            |        |                                  |     |     |           |                             |            |
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|      |      |          |        |            |        |                                  |     |     |           |                             |            |
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|      |      |          |        |            |        |                                  |     |     |           |                             |            |
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|      |      |          |        |            |        |                                  |     |     |           |                             |            |
|      |      |          |        |            |        |                                  |     |     |           |                             |            |
|      |      |          |        |            |        |                                  |     |     |           |                             |            |
|      |      |          |        |            |        |                                  |     |     |           |                             |            |
|      |      |          |        |            |        |                                  |     |     |           |                             |            |
|      |      |          |        |            |        |                                  |     |     |           |                             |            |
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|      |      |          |        |            |        |                                  |     |     |           |                             |            |
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|      |      |          |        |            |        |                                  |     |     |           |                             |            |
|      |      |          |        |            |        |                                  |     |     |           |                             |            |
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|      |      |          |        |            |        |                                  |     |     |           |                             |            |

| LINE | ITEM | DOCUMENT NUMBER | PART NUMBER | DESCRIPTION                      | QTY PER VARIATION | REFERENCE DESIGNATOR |
|------|------|-----------------|-------------|----------------------------------|-------------------|----------------------|
| 78   | 78   |                 | 1312618-00  | 16.9 K 1/4W 1% RN55D-F 100PPM    | 1                 | R40                  |
| 79   | 79   |                 | 1300229-00  | 100 1/4W 5% CC                   | 1                 | R43                  |
| 80   | 80   |                 | 1305336-00  | *** THIS ITEM IS NOT USED ***    | -                 | R45                  |
| 81   | 81   |                 | 1309416-00  | 31.6 K 1/4W 1% RN55D-F 100PPM    | 1                 |                      |
| 82   | 82   |                 | 1015574-01  | *** THIS ITEM IS NOT USED ***    | -                 | W1,W2                |
| 83   | 83   |                 | 9009185-00  | JUMPER, WIRE, INSULATED, BLACK B | 2                 | R44                  |
| 84   | 84   |                 | 1303044-00  | 100 K 1/4W 1% RN55D-F 100PPM     | 1                 |                      |
| 85   | 85   |                 | 1015574-00  | *** THIS ITEM IS NOT USED ***    | -                 | R46                  |
| 86   | 86   |                 | 1315435-00  | 25.5 K 1/4W 1% RN55D-F 100PPM    | 1                 | R47                  |
| 87   | 87   |                 | 1312930-00  | 5.1 K 1/4W 5% CC                 | 1                 | C19                  |
| 88   | 88   |                 | 1015520-00  | 1 MFD 100V 5% M-POLYESTER        | 1                 | Q10                  |
| 89   | 89   |                 | 1513697-00  | 2N 5640 FET N CHNLL              | 1                 | R49                  |
| 90   | 90   |                 | 1300479-00  | 10 K 1/4W 5% CC                  | 1                 |                      |
| 91   | 91   |                 | 1302466-00  | 100 K 1/4W 5% CC                 | 1                 | R70                  |

|   |   |   |   |   |   |   |       |                             |                |      |      |                 |     |
|---|---|---|---|---|---|---|-------|-----------------------------|----------------|------|------|-----------------|-----|
| D | I | G | I | T | A | L | TITLE | D.C. SERVO AND POWER SUPPLY | SECTION A OF A | SIZE | CODE | DOCUMENT NUMBER | REV |
|   |   |   |   |   |   |   |       |                             |                | K    | PL   | 5413534-0-DEP   | B   |





NOTES:

1. TP3, TP11, TP12 & TP15 THRU TP19 TO BE MOUNTED ON SIDE 2.
2. R60 AND R61 ARE TO BE INSTALLED AFTER FINAL TEST.
3. INSTALL W1 AND W2 FOR RL01. INSTALL W2 ONLY FOR RL02. W1 & W2 ARE LOCATED ON SIDE 2.

| CHK          | CHANGE | NO | REV |  |
|--------------|--------|----|-----|--|
| 5413534-0001 | B      |    |     |  |
| BOB NOGUCHI  |        |    |     |  |
| 5413534-0002 | C      |    |     |  |
| CX02A        |        |    |     |  |
| M. ZARICH    |        |    |     |  |
| 5413534-0003 | D      |    |     |  |
| CX003        |        |    |     |  |
| M. ZARICH    |        |    |     |  |

|                               |
|-------------------------------|
| ETCH REV. B                   |
| P.C. DESIGN DATA BASE REV. BL |

| SIGNATURES                       | DATE        |     |
|----------------------------------|-------------|-----|
| DRN. Paul R. Korduch             | 6/15/76     |     |
| CHK'D. D. J. M. M. M.            | 6/15/76     |     |
| ENG. J. J. M. M. M.              | 6/15/76     |     |
| PROJ. ENG. J. J. M. M.           | 6/15/76     |     |
| PROD. J. J. M. M.                | 6/15/76     |     |
| SCALE 2/1                        |             |     |
| SHT. 1 OF 2                      |             |     |
| NEXT HIGHER ASSY. B-DD-5413534-0 |             |     |
| TITLE DC SERVO & POWER SUPPLY    |             |     |
| SIZE CODE                        | NUMBER      | REV |
| D UA                             | 5413534-0-0 | D   |

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# REWORK INSTRUCTIONS:

ECO 5413534-CX003

## COMPONENT ADDS SIDE 1:

- 3-1 ADD POLARIZED SIDE OF C20 (1002781-00) AT E1-3 AND THE GND SIDE AT E2-1.

## WIRE ADDS SIDE 1:

- 3-2 ADD WIRE FROM THE PTH NEXT TO E1-3 TO T2.
- 3-3 ADD WIRE FROM THE PTH NEXT TO E2-1 TO C15 GND (BOTTOM).

| REVISION HISTORY |            |      |
|------------------|------------|------|
| DATE             | ECO NUMBER | REV. |

| DOCUMENT NUMBER |      |             |
|-----------------|------|-------------|
| SIZE            | CODE | NUMBER      |
| D               | UA   | 5413534-0-0 |
| SCALE           |      | REV.        |
| --H--           |      | D           |
| SHEET 2 OF 2    |      |             |

TITLE  
DC SERVO AND  
POWER SUPPLY



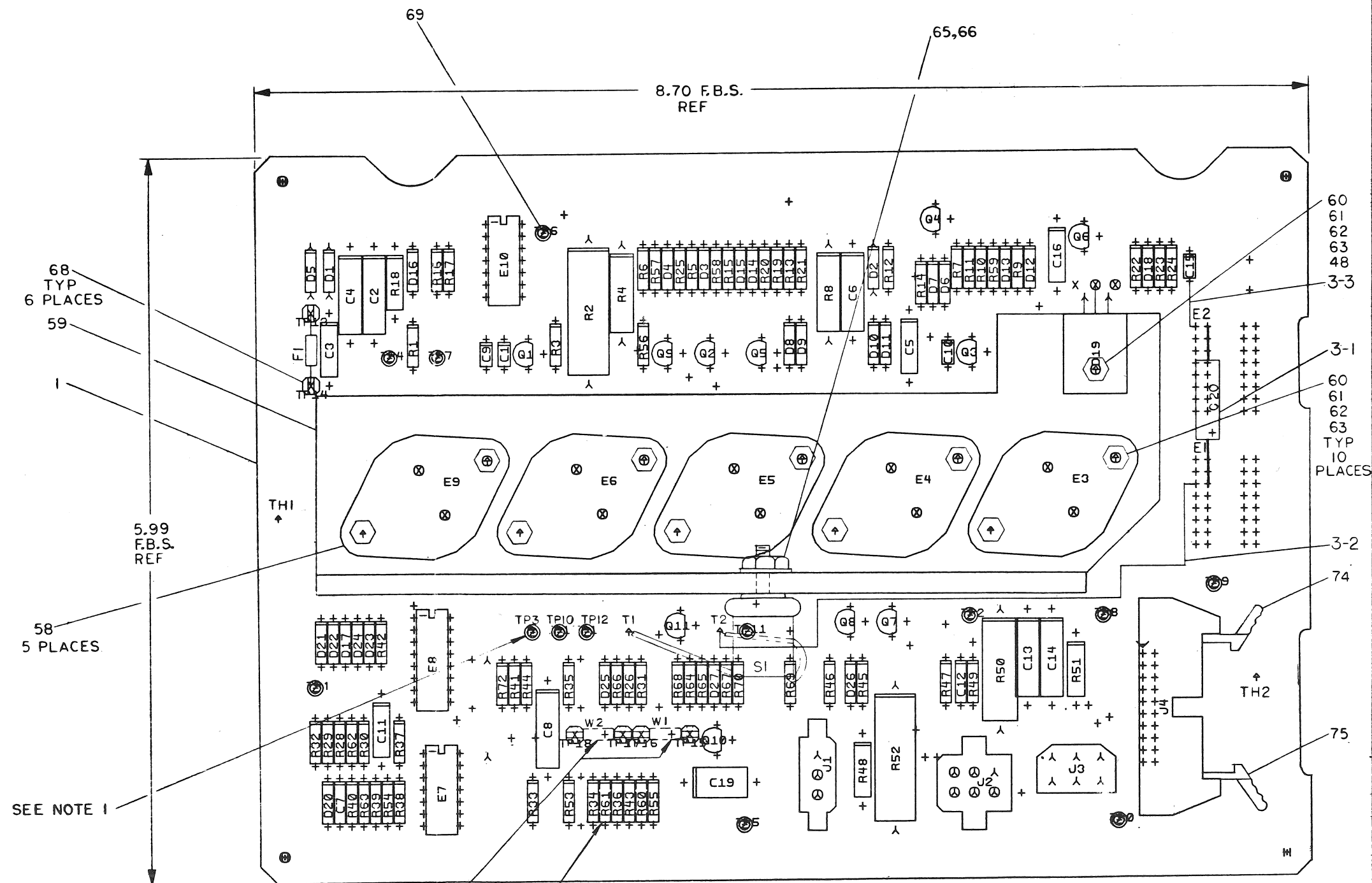






| LINE ITEM | DOCUMENT NUMBER | PART NUMBER | DESCRIPTION                      | QTY PER VARIATION | REFERENCE DESIGNATOR |
|-----------|-----------------|-------------|----------------------------------|-------------------|----------------------|
| 78        | 78              | 1312618-00  | 16.90 K .25 W 1.0 % RN55D-F10    | 1                 | R40                  |
| 79        | 79              | 1300229-00  | 100.0 .25 W 5.0 % CC             | 1                 | R63                  |
| 80        | 80              | 1305336-00  | *** THIS ITEM IS NOT USED ***    | -                 |                      |
| 81        | 81              | 1309416-00  | 31.60 K .25 W 1.0 % RN55D-F10    | 1                 | R65                  |
| 82        | 82              | 1002781-00  | 100 MFD 25V +75-10% AL EL        | 1                 | C20                  |
| 83        | 83              | 9009185-00  | JUMPER, WIRE, INSULATED, BLACK B | 2                 | W1,W2                |
| 84        | 84              | 1303044-00  | 100.0 K .25 W 1.0 % RN55D-F10    | 1                 | R64                  |
| 85        | 85              | 1015574-00  | *** THIS ITEM IS NOT USED ***    | -                 |                      |
| 86        | 86              | 1315435-00  | 25.50 K .25 W 1.0 % RN55D-F10    | 1                 | R66                  |
| 87        | 87              | 1312930-00  | 5.10 K .25 W 5.0 % CC            | 1                 | R67                  |
| 88        | 88              | 1015520-00  | 1 MFD 100V 5% MET. MYLR          | 1                 | C19                  |
| 89        | 89              | 1513697-00  | 2N 5640 FET N CHNML              | 1                 | Q10                  |
| 90        | 90              | 1300479-00  | 10.0 K .25 W 5.0 % CC            | 1                 | R69                  |
| 91        | 91              | 1302466-00  | 100.0 K .25 W 5.0 % CC           | 1                 | R70                  |
| 92        | 92              | 9105740-55  | WIRE(WRAP)30AWG UL1423           | A/R               |                      |

|   |   |   |   |   |   |   |       |                             |                |      |      |                 |     |
|---|---|---|---|---|---|---|-------|-----------------------------|----------------|------|------|-----------------|-----|
| D | I | G | I | T | A | L | TITLE | D.C. SERVO AND POWER SUPPLY | SECTION A OF A | SIZE | CODE | DOCUMENT NUMBER | REV |
|   |   |   |   |   |   |   |       |                             |                | K    | FL   | 5413534-0-DEP   | C   |



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REWORK INSTRUCTIONS:

ECO 5413534-CX003

COMPONENT ADDS SIDE 1:

- 3-1 ADD POLARIZED SIDE OF C20 (1002781-00) AT E1-3 AND THE GND SIDE AT E2-1.

WIRE ADDS SIDE 1:

- 3-2 ADD WIRE FROM THE PTH NEXT TO E1-3 TO T2.  
3-3 ADD WIRE FROM THE PTH NEXT TO E2-1 TO C15 GND (BOTTOM).

| REVISION HISTORY |            |      |
|------------------|------------|------|
| DATE             | ECO NUMBER | REV. |
|                  |            |      |

TITLE  
DC SERVO AND  
POWER SUPPLY

| DOCUMENT NUMBER |      |             |
|-----------------|------|-------------|
| SIZE            | CODE | NUMBER      |
| D               | UA   | 5413534-0-0 |
| SCALE           |      | REV.        |
| 1/1             |      | E           |
| SHEET 2 OF 2    |      |             |



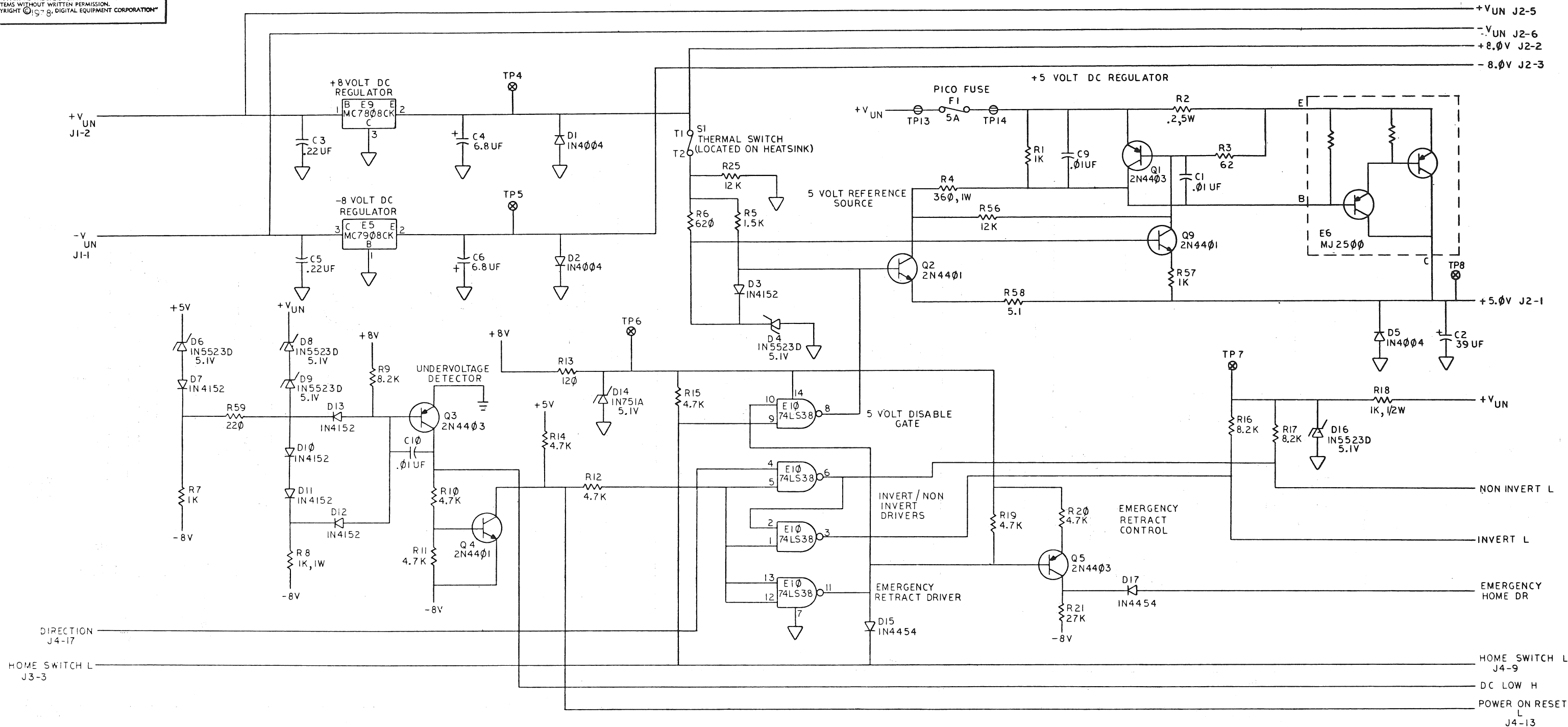


| LINE ITEM | DOCUMENT NUMBER | PART NUMBER | DESCRIPTION                      | QTY PER VARIATION | REFERENCE DESIGNATOR |
|-----------|-----------------|-------------|----------------------------------|-------------------|----------------------|
| 78        |                 | 1312618-00  | 16.90 K .25 W 1.0 % RN55D-F10    | 1                 | R40                  |
| 79        |                 | 1300229-00  | 100.0 .25 W 5.0 % CC             | 1                 | R63                  |
| 80        |                 | 1305336-00  | *** THIS ITEM IS NOT USED ***    | -                 |                      |
| 81        |                 | 1309416-00  | 31.60 K .25 W 1.0 % RN55D-F10    | 1                 | R65                  |
| 82        |                 | 1002781-00  | 100 MFD .25V +75-10% AL EL       | 1                 | C20                  |
| 83        |                 | 9009185-00  | JUMPER, WIRE, INSULATED, BLACK B | 2                 | W1,W2                |
| 84        |                 | 1303044-00  | 100.0 K .25 W 1.0 % RN55D-F10    | 1                 | R64                  |
| 85        |                 | 1015574-00  | *** THIS ITEM IS NOT USED ***    | -                 |                      |
| 86        |                 | 1315435-00  | 25.50 K .25 W 1.0 % RN55D-F10    | 1                 | R66                  |
| 87        |                 | 1312930-00  | 5.10 K .25 W 5.0 % CC            | 1                 | R67                  |
| 88        |                 | 1015520-00  | 1 MFD 100V 5% MET. MYLR          | 1                 | C19                  |
| 89        |                 | 1513697-00  | 2N 5640 FET N CHNNL              | 1                 | Q10                  |
| 90        |                 | 1300479-00  | 10.0 K .25 W 5.0 % CC            | 1                 | R69                  |
| 91        |                 | 1302466-00  | 100.0 K .25 W 5.0 % CC           | 1                 | R70                  |
| 92        |                 | 9105740-55  | WIRE(WRAP)30AWG UL1423           | A/R               |                      |
| 93        |                 | 1017472-00  | 10 MFD 35V +50-10% AL EL         | 4                 | C4,C6,C13,C14        |
| 94        |                 | 1016549-00  | 47 MFD 10V +50-10% AL EL         | 1                 | C2                   |

|   |   |   |   |   |   |   |       |                             |                |       |       |                 |     |
|---|---|---|---|---|---|---|-------|-----------------------------|----------------|-------|-------|-----------------|-----|
| D | I | G | I | T | A | L | TITLE | D.C. SERVO AND POWER SUPPLY | SECTION A OF A | ISIZE | ICODE | DOCUMENT NUMBER | REV |
|   |   |   |   |   |   |   |       |                             |                | K     | PL    | 5413534-0-DBP   | D   |



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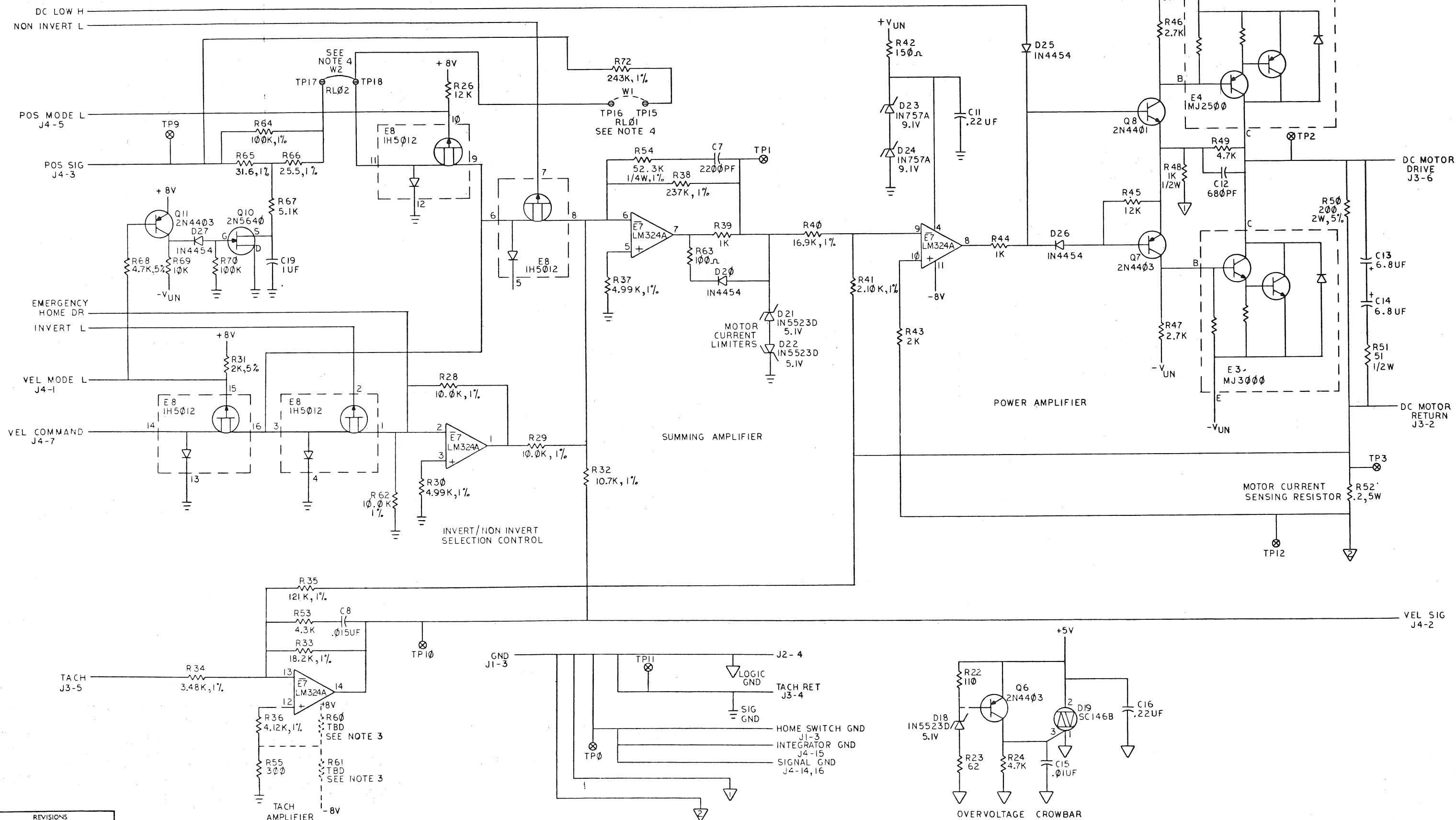


#### NOTES:

- ALL RESISTORS TO BE 1/4W, 5%; UNLESS OTHERWISE SPECIFIED.
- E1 AND E2 ARE SPARES.
- VALUE OF R60 OR R61 WILL BE DETERMINED IN TESTING.
- INSTALL W1 AND W2 FOR RL01 ON SIDE 2. INSTALL W2 ONLY FOR RL02 ON SIDE 2.

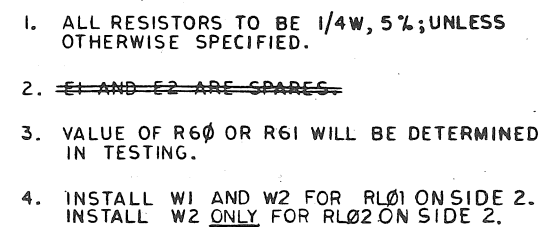
| DESCRIPTION                                         |  | DWG./PART NO.     |  | ITEM NO.                       |  |
|-----------------------------------------------------|--|-------------------|--|--------------------------------|--|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |  |                   |  |                                |  |
| ANGLES                                              |  | CLASS OF ACCURACY |  | NOMINAL DIMENSION RANGE INCHES |  |
| ±0° 30'                                             |  | (CHECK ONE)       |  | OVER 0 TO 0.2                  |  |
| SURFACE QUALITY                                     |  | MEDIUM            |  | OVER 0.2 TO 0.4                |  |
| IN                                                  |  | PREFERRED         |  | OVER 0.4 TO 0.6                |  |
| MICROINCHES                                         |  | ±0.012            |  | OVER 0.6 TO 0.8                |  |
| QUANTITY & VARIATION                                |  | ±0.016            |  | OVER 0.8 TO 1.0                |  |
| THIRD ANGLE PROJECTION                              |  | ±0.025            |  | OVER 1.0 TO 1.2                |  |
| REMOVE BURRS AND BREAK SHARP CORNERS                |  | ±0.04             |  | OVER 1.2 TO 1.4                |  |
| DO NOT SCALE DWG                                    |  | ±0.08             |  | OVER 1.4 TO 1.6                |  |
| MATERIAL                                            |  | ±0.1              |  | OVER 1.6 TO 1.8                |  |
| FINISH                                              |  | ±0.125            |  | OVER 1.8 TO 2.0                |  |
| DRN                                                 |  | FIRST USED ON     |  | digital                        |  |
| CHK'D                                               |  | TITLE             |  | DC SERVO AND POWER SUPPLY      |  |
| ENG.                                                |  | PROJ. ENG.        |  | PROD.                          |  |
| NEXT HIGHER ASSY.                                   |  | SCALE             |  | SIZE                           |  |
| D-UA-5413534-0-0                                    |  | D                 |  | CODE                           |  |
| SHEET 1 OF 2                                        |  | DIST.             |  | NUMBER                         |  |
| REV.                                                |  | REV.              |  | REV.                           |  |

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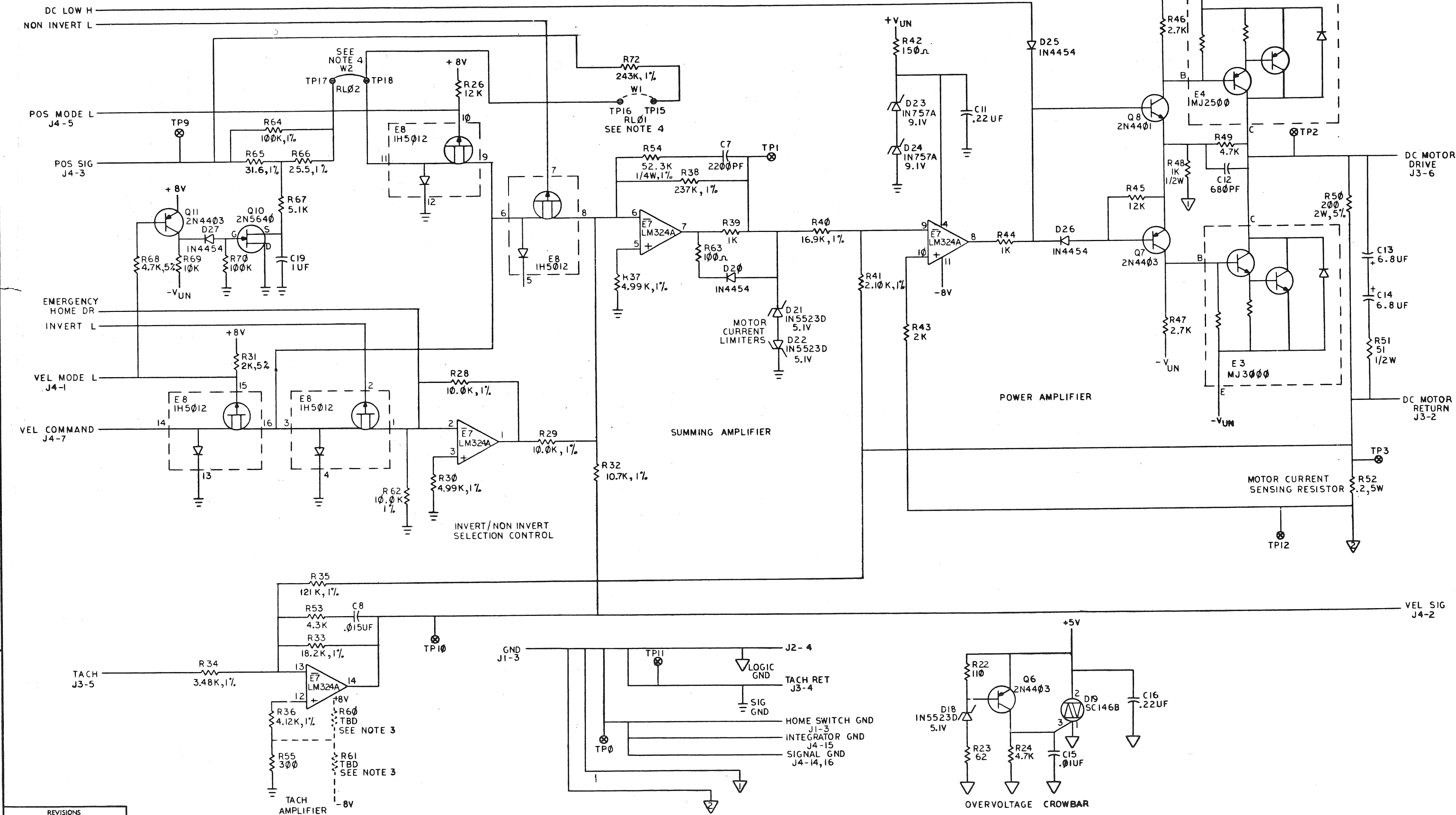
| REVISIONS |           |      |
|-----------|-----------|------|
| CHK       | CHANGE NO | REV. |
|           |           |      |
|           |           |      |

|       |  |                           |           |      |        |             |      |   |
|-------|--|---------------------------|-----------|------|--------|-------------|------|---|
| TITLE |  | DC SERVO AND POWER SUPPLY | SIZE CODE | D CS | NUMBER | 5413534-0-1 | REV. | C |
| SCALE |  | SHEET                     | 3         | OF   | 2      | DIST.       |      |   |



|                                         |  |  |                                                     |  |                      |       |                                                                                                                        |                          |                          |                           |                            |                            |
|-----------------------------------------|--|--|-----------------------------------------------------|--|----------------------|-------|------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|---------------------------|----------------------------|----------------------------|
|                                         |  |  | DESCRIPTION                                         |  |                      |       | DWG./PART NO.                                                                                                          |                          |                          |                           | ITEM NO.                   |                            |
|                                         |  |  | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |  |                      |       |                                                                                                                        |                          |                          |                           |                            |                            |
|                                         |  |  | ANGLES<br>30° 30'                                   |  | CLASS OF<br>ACCURACY |       | NOMINAL DIMENSION RANGE INCHES                                                                                         |                          |                          |                           |                            |                            |
|                                         |  |  | SURFACE<br>QUALITY                                  |  | (CHECK ONE)          |       | OVER<br>0<br>TO<br>0.2                                                                                                 | OVER<br>0.2<br>TO<br>1.2 | OVER<br>1.2<br>TO<br>4.0 | OVER<br>4.0<br>TO<br>12.0 | OVER<br>12.0<br>TO<br>40.0 | OVER<br>40.0<br>TO<br>80.0 |
| QUANTITY &<br>VARIATION                 |  |  | MEDIUM <input type="checkbox"/>                     |  | ±.004                | ±.008 | ±.012                                                                                                                  | ±.016                    | ±.024                    | ±.04                      |                            |                            |
|                                         |  |  | PREFERRED <input type="checkbox"/>                  |  | ±.012                | ±.016 | ±.025                                                                                                                  | ±.036                    | ±.063                    | ±.1                       |                            |                            |
| THIRD ANGLE PROJECTION                  |  |  | DRN. <i>R. Richard</i> 8/15/78                      |  |                      |       | FIRST USED ON                                                                                                          |                          |                          |                           |                            |                            |
|                                         |  |  | CHK'D <i>W. Miller</i> 8/15/78                      |  |                      |       | <div style="border: 1px solid black; padding: 5px; display: inline-block;">digital</div>                               |                          |                          |                           |                            |                            |
|                                         |  |  | ENG. <i>R. Richard</i> 8/15/78                      |  |                      |       |                                                                                                                        |                          |                          |                           |                            |                            |
|                                         |  |  | PROJ. ENG. <i>R. Richard</i> 8/15/78                |  |                      |       |                                                                                                                        |                          |                          |                           |                            |                            |
|                                         |  |  | PROD. <i>R. Richard</i> 8/15/78                     |  |                      |       |                                                                                                                        |                          |                          |                           |                            |                            |
| REMOVE BURRS AND<br>BREAK SHARP CORNERS |  |  | NEXT HIGHER ASSY.                                   |  |                      |       | <div style="border: 1px solid black; padding: 10px;"> <h2 style="margin: 0;">DC SERVO AND<br/>POWER SUPPLY</h2> </div> |                          |                          |                           |                            |                            |
| DO NOT SCALE DWG                        |  |  | D - UA-5413534-0-0                                  |  |                      |       |                                                                                                                        |                          |                          |                           |                            |                            |
| MATERIAL                                |  |  | SCALE <i>1" = 1"</i>                                |  |                      |       |                                                                                                                        |                          |                          |                           |                            |                            |
| FINISH                                  |  |  | SHEET <i>1</i> OF <i>2</i>                          |  |                      |       |                                                                                                                        |                          |                          |                           |                            |                            |
|                                         |  |  | SIZE                                                |  |                      |       | CODE                                                                                                                   |                          | NUMBER                   |                           | REV.                       |                            |
|                                         |  |  | D                                                   |  |                      |       | CS                                                                                                                     |                          | 5413534-0-1              |                           | D                          |                            |
|                                         |  |  | DIST.                                               |  |                      |       |                                                                                                                        |                          |                          |                           |                            |                            |

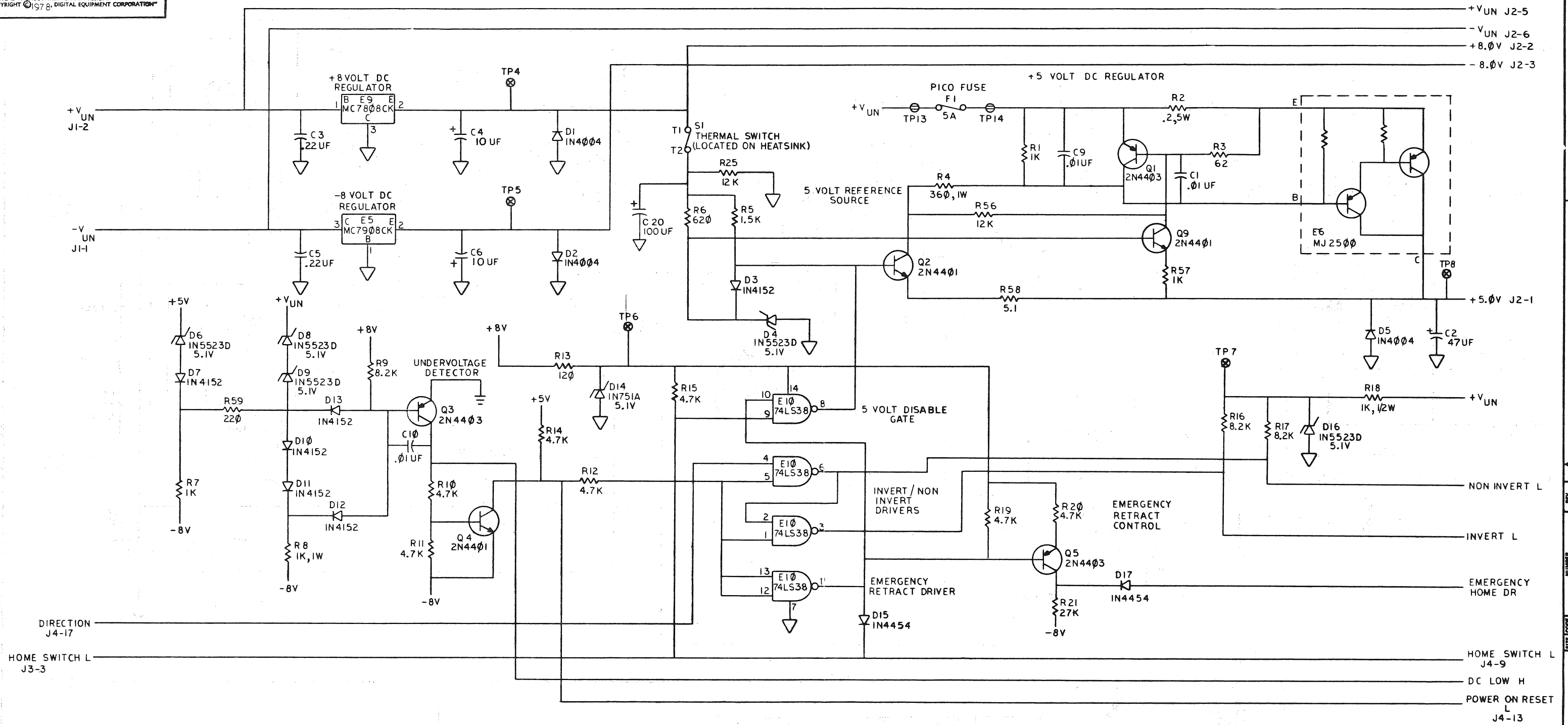
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| REVISIONS |            |      |
|-----------|------------|------|
| CHK       | CHANGE NO. | REV. |
|           |            |      |
|           |            |      |
|           |            |      |
|           |            |      |
|           |            |      |
|           |            |      |
|           |            |      |
|           |            |      |
|           |            |      |

| TITLE                     |  | SIZE CODE    | NUMBER      | REV.  |
|---------------------------|--|--------------|-------------|-------|
| DC SERVO AND POWER SUPPLY |  | D CS         | 5413534-0-1 | D     |
| SCALE                     |  | SHEET 2 OF 2 |             | DIST. |

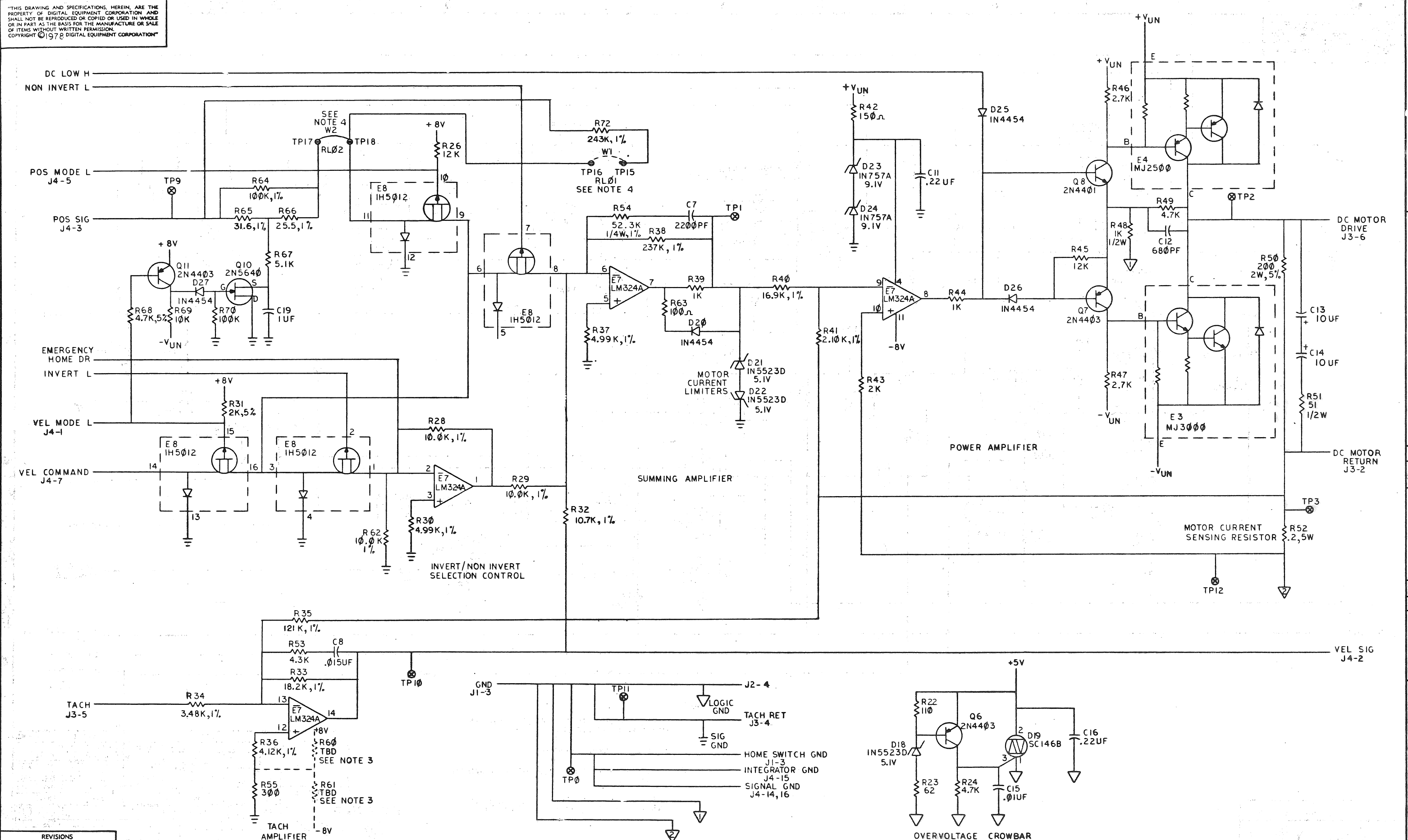
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#### NOTES:

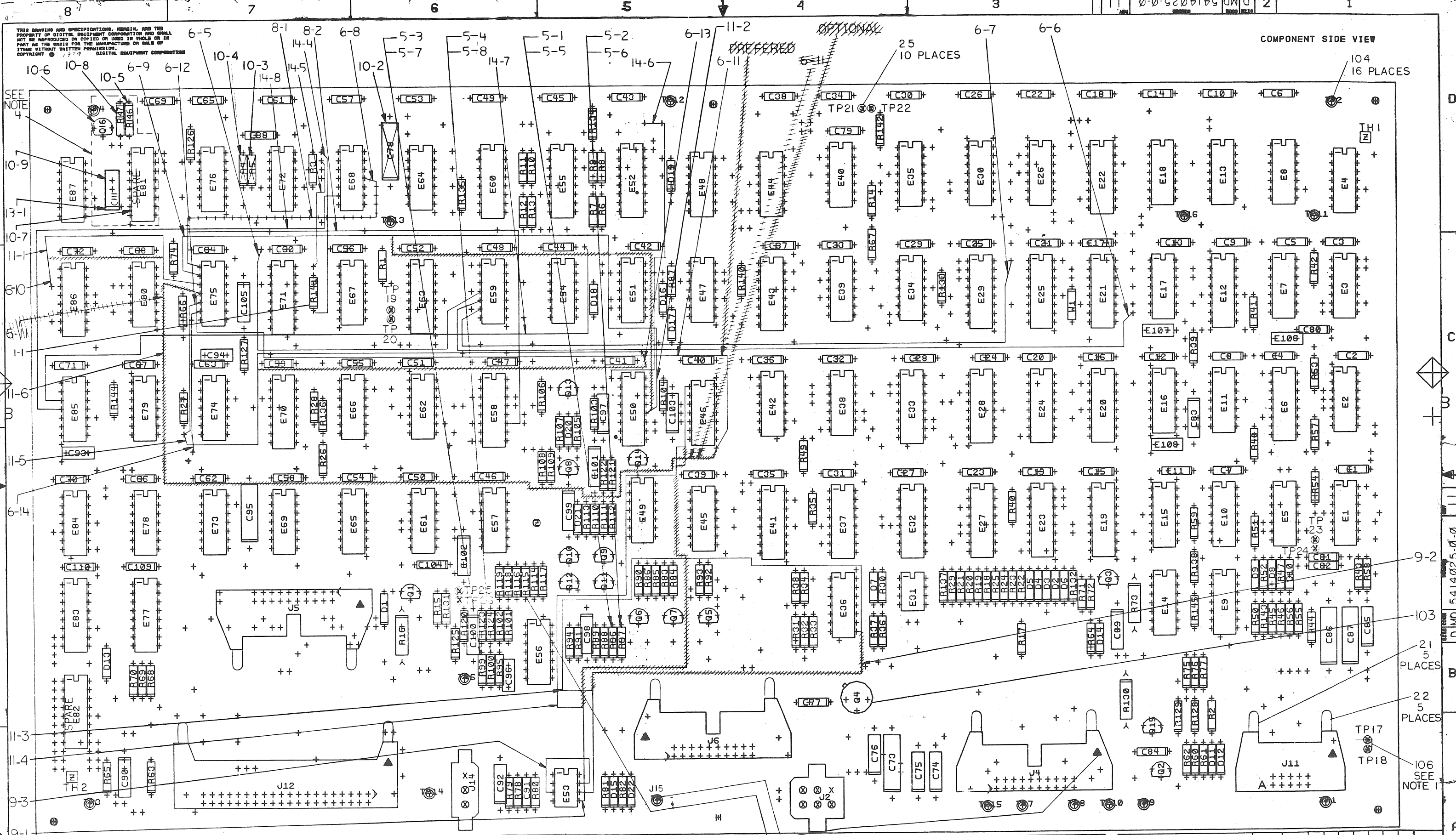
1. ALL RESISTORS TO BE 1/4W, 5%; UNLESS OTHERWISE SPECIFIED.
2. ~~E1 AND E2 ARE SPARES~~
3. VALUE OF R60 OR R61 WILL BE DETERMINED IN TESTING.
4. INSTALL W1 AND W2 FOR RL01 ON SIDE 2. INSTALL W2 ONLY FOR RL02 ON SIDE 2.

| QUANTITY & VARIATION                 |  | DESCRIPTION                                         |  | DWG./PART NO.         |  | ITEM NO.                       |  |
|--------------------------------------|--|-----------------------------------------------------|--|-----------------------|--|--------------------------------|--|
| THIRD ANGLE PROJECTION               |  | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |  | D-5413534-0-1         |  | 1                              |  |
| REMOVE BURRS AND BREAK SHARP CORNERS |  | ANGLES ±0° 30'                                      |  | CLASS OF ACCURACY     |  | NOMINAL DIMENSION RANGE INCHES |  |
| DO NOT SCALE DWG                     |  | SURFACE QUALITY IN                                  |  | (CHECK ONE)           |  | OVER 0 TO 0.2                  |  |
| MATERIAL                             |  | MICROINCHES                                         |  | PREFERRED             |  | OVER 0.2 TO 0.4                |  |
| FINISH                               |  | DRN. R. Richard                                     |  | CHK'D                 |  | OVER 0.4 TO 0.6                |  |
|                                      |  | ENG. R. Richard                                     |  | PROJ. ENG. R. Richard |  | OVER 0.6 TO 1.2                |  |
|                                      |  | PROD. R. Richard                                    |  | NEXT HIGHER ASSY.     |  | OVER 1.2 TO 2.0                |  |
|                                      |  | FIRST USED ON                                       |  | TITLE                 |  | OVER 2.0 TO 4.0                |  |
|                                      |  | DC SERVO AND POWER SUPPLY                           |  | SIZE                  |  | OVER 4.0 TO 12.0               |  |
|                                      |  | D-5413534-0-0                                       |  | CODE                  |  | OVER 12.0 TO 40.0              |  |
|                                      |  | D                                                   |  | NUMBER                |  | OVER 40.0 TO 80.0              |  |
|                                      |  | SHEET 1 OF 2                                        |  | REV.                  |  | OVER 80.0 TO 100.0             |  |
|                                      |  | DIST.                                               |  | E                     |  |                                |  |



| REVISIONS |            |      | AMPLIFIER -8V |  |  |  |  |  |  |  |  |  | 2                         | OVERVOLTAGE CROWBAR |              |  |             |  |  |  |  |  |      |  |  |
|-----------|------------|------|---------------|--|--|--|--|--|--|--|--|--|---------------------------|---------------------|--------------|--|-------------|--|--|--|--|--|------|--|--|
| CHK       | CHANGE NO. | REV. |               |  |  |  |  |  |  |  |  |  | TITLE                     |                     | SIZE CODE    |  | NUMBER      |  |  |  |  |  | REV. |  |  |
|           |            |      |               |  |  |  |  |  |  |  |  |  | DC SERVO AND POWER SUPPLY |                     | D CS         |  | 5413534-0-1 |  |  |  |  |  | E    |  |  |
|           |            |      |               |  |  |  |  |  |  |  |  |  | SCALE                     |                     | SHEET 2 OF 2 |  | DIST.       |  |  |  |  |  |      |  |  |





NOTES:

1. INSTALL ITEM 106 AFTER TEST (BETWEEN TPI7 & TPI8 ONLY).
2. VALUE OF ITEM 2 TO BE DETERMINED AT NEXT HIGHER ASSEMBLY.
3. STAMP ORIENTATION TRIANGLES ON CONNECTORS AS SHOWN WITH APPLICABLE RED INK.

| CHK | CHANGE    | NO | REV |
|-----|-----------|----|-----|
| 1   | 5414025-  | B  |     |
| 2   | CX001     |    |     |
| 3   | M. BROWN  |    |     |
| 4   | 5414025-  | C  |     |
| 5   | CX003     |    |     |
| 6   | M. ZARICH |    |     |
| 7   | M. ZARICH |    |     |
| 8   | 5414025-  | D  |     |
| 9   | CX005     |    |     |
| 10  | M. BROWN  |    |     |
| 11  | M. ZARICH |    |     |
| 12  | 5414025-  | E  |     |
| 13  | CX006     |    |     |
| 14  | M. BROWN  |    |     |
| 15  | M. ZARICH |    |     |
| 16  | 5414025-  | F  |     |
| 17  | CX008     |    |     |
| 18  | M. BROWN  |    |     |
| 19  | M. ZARICH |    |     |
| 20  | 5414025-  | G  |     |
| 21  | CX009     |    |     |
| 22  | M. BROWN  |    |     |
| 23  | M. ZARICH |    |     |
| 24  | 5414025-  | H  |     |
| 25  | CX010     |    |     |
| 26  | M. BROWN  |    |     |
| 27  | M. ZARICH |    |     |
| 28  | 5414025-  | I  |     |
| 29  | CX011     |    |     |
| 30  | M. BROWN  |    |     |
| 31  | M. ZARICH |    |     |
| 32  | 5414025-  | J  |     |
| 33  | CX012     |    |     |
| 34  | M. BROWN  |    |     |
| 35  | M. ZARICH |    |     |
| 36  | 5414025-  | K  |     |
| 37  | CX013     |    |     |
| 38  | M. BROWN  |    |     |
| 39  | M. ZARICH |    |     |
| 40  | 5414025-  | L  |     |
| 41  | CX014     |    |     |
| 42  | M. BROWN  |    |     |
| 43  | M. ZARICH |    |     |
| 44  | 5414025-  | LI |     |
| 45  | CX015     |    |     |
| 46  | M. BROWN  |    |     |
| 47  | M. ZARICH |    |     |

SEE NOTE 3

3-1

3-2

SEE NOTE 2

ETCH REV. B

P.C. DESIGN DATA BASE REV. BL

|                                  |  |         |             |
|----------------------------------|--|---------|-------------|
| SIGNATURES                       |  | DATE    | digital     |
| DRN. (1)                         |  | 4-27-79 |             |
| CHK'D. (1)                       |  | 5/2/79  |             |
| ENG. (1)                         |  | 5/2/79  |             |
| PROJ. ENG. (1)                   |  | 5/2/79  |             |
| PROD. 1                          |  |         | TITLE       |
| SCALE 2/1                        |  |         | DRIVE LOGIC |
| SHT. 1 OF 2                      |  |         | SIZE CODE   |
| NEXT HIGHER ASSY. B-DD-5414025-0 |  |         | NUMBER      |
|                                  |  |         | REV         |
|                                  |  |         | LI          |

1 MS#291-06

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NOTES: CONT.

4 THESE COMPONENTS MAY OR MAY NOT APPEAR DEPENDING UPON THE ORIGINAL CS REV BEFORE INSTALLING ECO 5414025-CX014.

ECO#5414025-CX001

COMPONENT DELETE:

1-1 REMOVE R141

ECO#5414025-CX003

COMPONENT DELETE:

3-1 REMOVE TP5

COMPONENT ADD:

3-2 ADD J15, ITEM 109 AT PTH FOR TP5

ECO#5414025-CX005

COMPONENT DELETES:

5-1 R96,(365 K).  
5-2 R97,(30.1 K).  
5-3 R99,(365 K).  
5-4 R100,(30.1 K).

COMPONENT ADDS:

5-5 R96,(3.65 K).  
5-6 R97, (301).  
5-7 R99, (3.65 K).  
5-8 R100, (301).

ECO#5414025-CX006

ETCH CUTS:

6-1 }  
6-2 } SEE D-EC-5014024-0-0  
6-3 }  
6-4 }

WIRE ADDS SIDE 1:

6-5 FROM E59-4 TO E71-2 (PTH TO THE LEFT OF C60).  
6-6 FROM E59-5 TO E21-7 (PTH TO THE RIGHT OF E21-10).  
6-7 FROM E59-6 TO E25-1 (PTH TO THE LEFT OF E25-1).  
6-8 FROM E75-1 TO E68-11.  
6-9 FROM E75-2 TO E50-12.  
6-10 FROM E75-3 TO PTH TO THE LEFT OF E86-3.  
6-11 FROM E75-4 TO PTH BELOW E46-8.  
6-12 FROM E75-5 TO PTH BELOW R27.  
6-13 FROM PTH BELOW R27 TO PTH TO THE UPPER RIGHT OF C41.  
6-14 FROM E75-6 TO E73-1 (PTH ALONG ETCH ABOVE E73-1).

ECO#5414025-CX008

WIRE DELETE:

8-1 E68-11 TO E75-1.

WIRE ADD:

8-2 E75-1 TO E58-11.

ECO#5414025-CX009

WIRE ADDS:

9-1 E46 PIN 1 TO E53 PIN 5.  
9-2 E36 PIN 8 TO E53 PIN 6.  
9-3 E53 PIN 7 TO E53 PIN 3.

ECO#5414025-CX010A

COMPONENT DELETES:

10-2 REMOVE C78 (1000076-00)  
10-3 REMOVE R5 (1300365-00)  
10-4 REMOVE R4 (1300447-00)

COMPONENT ADDS:

10-5 ADD R146 (1302391-00)  
10-6 ADD Q16 (1513489-00)  
10-7 ADD E81 (1912837-00)  
10-8 ADD R147 (1305608-00)  
10-9 ADD C111 (1005334-00)

ECO#5414025-CX011

REROUTING INSTRUCTIONS:

11-1 REROUTE WIRE 6-10 (E75-3 TO PTH TO THE LEFT OF E86-3).  
11-2 REROUTE WIRE 6-9 (E75-2 TO E50-12).  
11-3 REROUTE WIRE 9-2 (E36-8 TO E53-6).  
11-4 REROUTE WIRE 9-1 (E46-1 TO E53-5).  
11-5 REROUTE WIRE 6-13 (FROM PTH BELOW R27 TO PTH TO THE UPPER RIGHT OF C41).

WIRE DELETES:

11-6 DELETE THE OPTIONAL ROUTING OF WIRE (6-11).

ECO#5414025-CX013

COMPONENT ADD:

13-1 REMOVE C111 (1005334-00)  
ROTATE 180° AND REPLACE.

ECO#5414025-CX014

WIRE ADDS:

14-4 ADD WIRE FROM THE FEED THRU TO THE LEFT OF E68-1 TO THE FEED THRU TO THE LEFT OF E67-6.  
14-5 ADD WIRE FROM THE FEED THRU TO THE LEFT OF E68-2 TO THE FEED THRU TO THE RIGHT OF E71-16.  
14-6 ADD WIRE FROM THE FEED THRU DIRECTLY ABOVE E52-16 TO THE FEED THRU TO THE LEFT OF E50-1.  
14-7 ADD WIRE FROM THE FEED THRU GOING TO E54-12 ABOVE E54 TO E85-3.  
14-8 ADD WIRE FROM E85-4 TO E68-6.

| REVISION HISTORY |            |      |
|------------------|------------|------|
| DATE             | ECO NUMBER | REV. |
|                  |            |      |

| DOCUMENT NUMBER |      |              |
|-----------------|------|--------------|
| SIZE            | CODE | NUMBER       |
| D               | UA   | 5414025-0-0  |
| SCALE           |      | SHEET 2 OF 2 |

TITLE  
DRIVE LOGIC

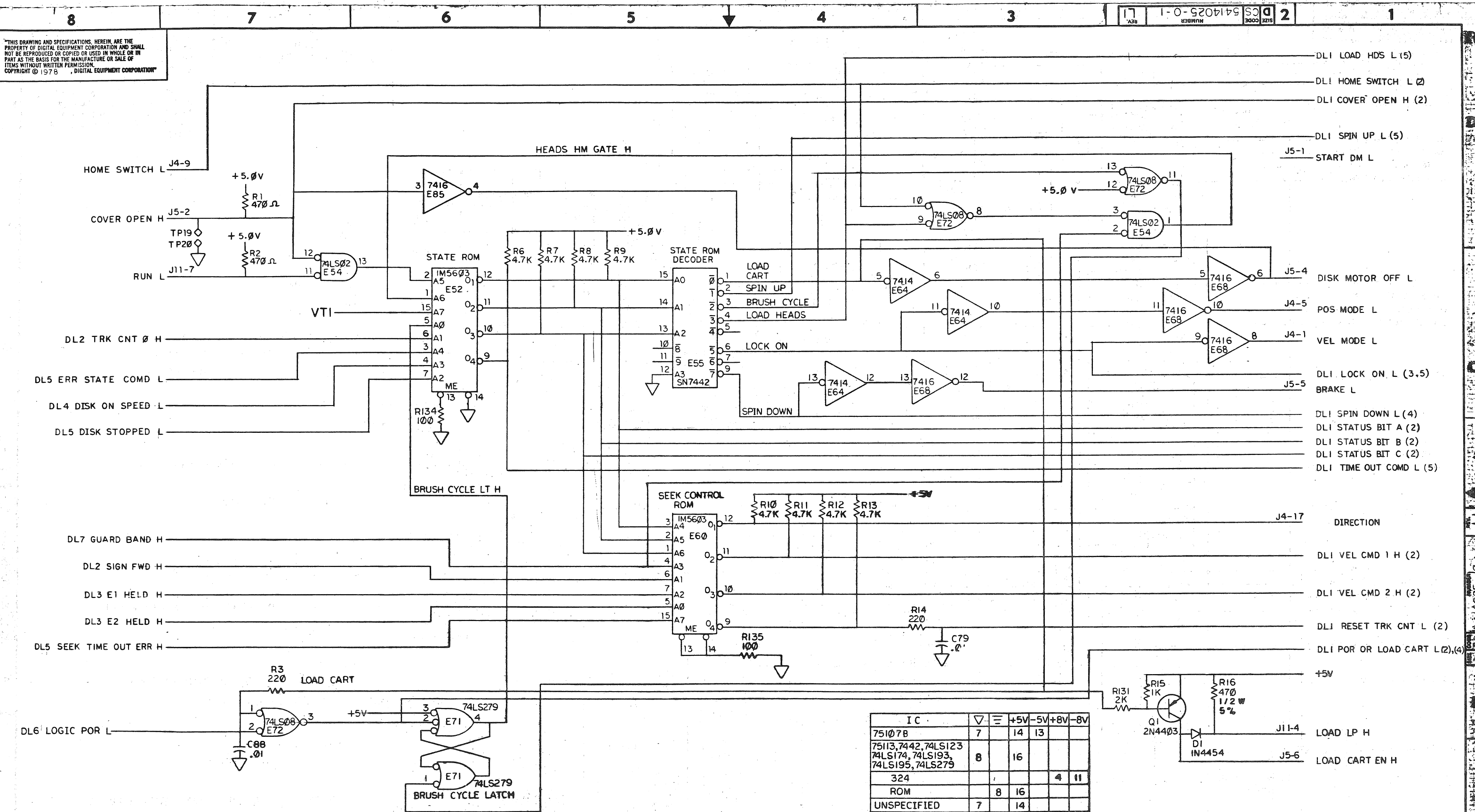


## P A R T S L I S T

| LINE ITEM        | DOCUMENT NUMBER  | PART NUMBER | DESCRIPTION                   | QTY PER VARIATION     | REFERENCE DESIGNATOR                                                             |
|------------------|------------------|-------------|-------------------------------|-----------------------|----------------------------------------------------------------------------------|
| 1                | D-MD-5014024-0-0 | 5014024-00  | DRILL AND ETCH BRD            | 1                     |                                                                                  |
| 2                | EW5              |             | RESISTOR,FINAL TEST, 1/4W, 1% | 4                     | R115,R116,R118,R119                                                              |
| 3                |                  | 1000023-00  | 330.0 MMF 100V 5%200PPM MICA  | 4                     | C93,C106-C108                                                                    |
| 4                |                  | 1000024-00  | 470.0 MMF 100V 5%200PPM MICA  | 1                     | C94                                                                              |
| 5                |                  | 1000064-00  | 3.9MFD 10V 10% S.TANT         | 2                     | C76,C85                                                                          |
| 6                |                  | 1000076-00  | 39 MFD 10V 10% S.TANT         | 3                     | C73,C86,C95                                                                      |
| 7                |                  | 1001610-00  | .01 MFD 50V +80-20% 25U CER   | 74                    | C1-C6,C8-C39,C40-C45,C47-C49,<br>C51-C53,C55-C68,C70,C71,C77,<br>C74,C75,C92,C97 |
| 8                |                  | 1001776-00  | 1 MFD 35V 10% S.TANT          | 4                     | CONT C79-C82,C84,C88,C104                                                        |
| 9                |                  | 1004812-00  | 15 MFD 20V 10% S.TANT         | 1                     | C87                                                                              |
| 10               |                  | 1005784-00  | .01 MFD 100V 10% MYLR         | 1                     | C101                                                                             |
| 11               |                  | 1010978-32  | .047 MFD 50V 10% CER          | 1                     | C96                                                                              |
| 12               |                  | 1013466-07  | 220.0 MMF 50V 5% CER          | 1                     | C91                                                                              |
| 13               |                  | 1013466-08  | 680.0 MMF 50V 10% X7R CER     | 2                     | C89,C90                                                                          |
| 14               |                  | 1013466-09  | 1000.0 MMF 50V 10% X7R CER    | 1                     | C83                                                                              |
| 15               |                  | 1013466-10  | 3300.0 MMF 50V 5% CER         | 4                     | C98,C100,C103,C105                                                               |
| 16               |                  | 1013466-11  | .22 MFD 50V +80-20% Z5U CER   | 2                     | C99,C102                                                                         |
| 17               |                  | 1111577-00  | 1N 4454 TR= 4NS PIV= 50 S     | 16                    | D1,D7-D20,D22                                                                    |
| 18               |                  | 1113953-00  | 1N 5523D VZ= 5.1 1%           | 1                     | D21                                                                              |
| 19               |                  | 1114117-00  | 1N 4152 PIV=40 I=75           | 5                     | D2-D6                                                                            |
| 20               |                  | 1209941-02  | HEADER 100 40POS RT ANGLE     | 1                     | J11                                                                              |
| 21               |                  | 1209941-03  | HEADER RT ANGLE LEFT L        | 5                     | J4-J6                                                                            |
| 22               |                  | 1209941-04  | HEADER RT ANGLE,RIGHT         | 5                     | TP17-TP26                                                                        |
| 23               |                  | 1209941-05  | HEADER,100 10FOS RT ANGLE     | 1                     | J11                                                                              |
| 24               |                  | 1209941-06  | HEADER,100 20POS RT ANGLE     | 3                     | J4-J6                                                                            |
| 25               |                  | 1210385-01  | PIN 1POS WIRE WRAP            | 10                    | J2                                                                               |
| 26               |                  | 1213922-02  | HEADER 3POS                   | 1                     | J14                                                                              |
| 27               |                  | 1213922-04  | HEADER 6POS                   | 1                     | J2                                                                               |
| 28               |                  | 1300229-00  | 100.0 .25 W 5.0 % CC          | 5                     | R48,R133-R136                                                                    |
| REVISION HISTORY |                  |             |                               |                       |                                                                                  |
| ENG              | ECO NUMBER       | REV         | SECTION A OF A                | DRN                   | ART STMM                                                                         |
| ---              | INITIAL          | A           | SECTION-VARIATION INDEX       | CHK'D:                | P. KENDRICK                                                                      |
| MB               | 5414025-CX001    | IB          | CAJ 00                        | DATE: 18-APR-79       | DATE: 18-APR-79                                                                  |
| MB               | 5414025-CX002    | IC          | CBJ                           |                       | DRIVE LOGIC                                                                      |
| MB               | 5414025-CX003    | ID          | CCJ                           |                       |                                                                                  |
| MB               | 5414025-CX005    | IE          | CDJ                           | DES-ENG: MIKE BROWN   | DATE: 18-APR-79                                                                  |
| MB               | 5414025-CX010A   | IF          | CEJ                           |                       | DOCUMENT NUMBER                                                                  |
| MB               | 5414025-CX014    | IH          | CFJ                           | RESP-ENG.: MIKE BROWN | DATE: 18-APR-79                                                                  |
| MB               | 5414025-CX014    | II          | CHJ                           |                       | SIZE/CODE NUMBER                                                                 |
| MB               | 5414025-CX014    | III         | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | IV          | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | V           | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | VI          | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | VII         | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | VIII        | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | IX          | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | X           | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XI          | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XII         | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XIII        | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XIV         | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XV          | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XVI         | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XVII        | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XVIII       | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XIX         | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XX          | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXI         | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXII        | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXIII       | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXIV        | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXV         | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXVI        | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXVII       | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXVIII      | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXIX        | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXX         | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXI        | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXII       | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXIII      | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXIV       | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXV        | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXVI       | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXVII      | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXVIII     | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXIX       | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXX        | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXI       | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXII      | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXIII     | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXIV      | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXV       | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXVI      | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXVII     | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXVIII    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXIX      | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXX       | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXI      | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXII     | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXIII    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXIV     | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXV      | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXVI     | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXVII    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXVIII   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXIX     | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXX      | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXI     | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXII    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXIII   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXIV    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXV     | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXVI    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXVII   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXVIII  | CHJ                           |                       | REV                                                                              |
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| MB               | 5414025-CX014    | XXXXXXX     | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXI    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXII   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIII  | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIV   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXV    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVI   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVII  | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVIII | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIX   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXX     | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXI    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXII   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIII  | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIV   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXV    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVI   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVII  | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVIII | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIX   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXX     | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXI    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXII   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIII  | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIV   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXV    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVI   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVII  | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVIII | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIX   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXX     | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXI    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXII   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIII  | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIV   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXV    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVI   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVII  | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVIII | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIX   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXX     | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXI    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXII   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIII  | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIV   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXV    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVI   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVII  | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVIII | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIX   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXX     | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXI    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXII   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIII  | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIV   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXV    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVI   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVII  | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVIII | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIX   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXX     | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXI    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXII   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIII  | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIV   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXV    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVI   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVII  | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVIII | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIX   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXX     | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXI    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXII   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIII  | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIV   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXV    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVI   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVII  | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVIII | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIX   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXX     | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXI    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXII   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIII  | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIV   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXV    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVI   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVII  | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVIII | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIX   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXX     | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXI    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXII   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIII  | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIV   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXV    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVI   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVII  | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVIII | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIX   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXX     | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXI    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXII   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIII  | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIV   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXV    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVI   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVII  | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVIII | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIX   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXX     | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXI    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXII   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIII  | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIV   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXV    | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVI   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVII  | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXVIII | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXIX   | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXX     | CHJ                           |                       | REV                                                                              |
| MB               | 5414025-CX014    | XXXXXXXI    | CHJ                           |                       |                                                                                  |



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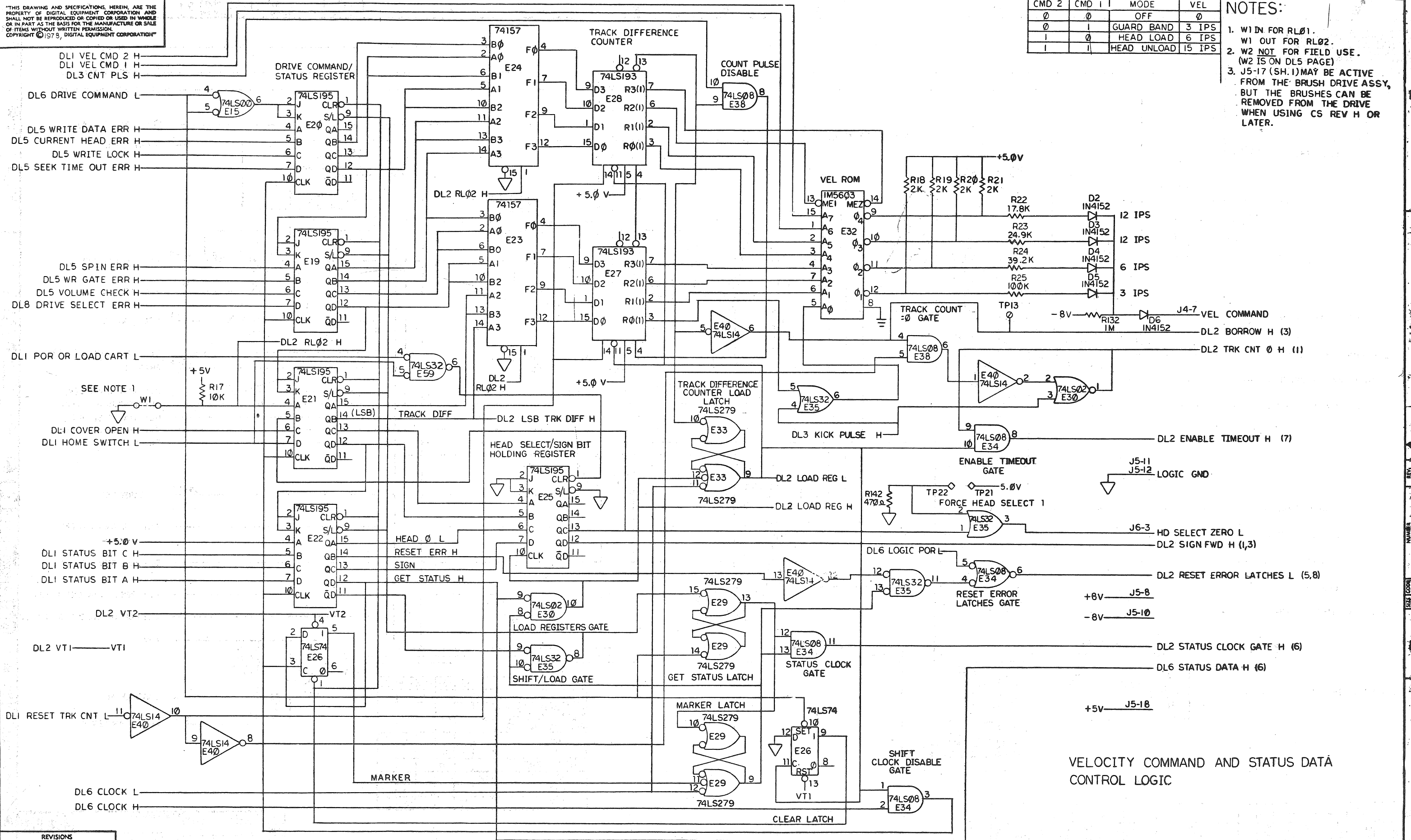


| IC                                 | 7 | 8 | 12 | 14 | 16 | 18 | 20 |
|------------------------------------|---|---|----|----|----|----|----|
| 75107B                             | 7 | 8 | 12 | 14 | 16 | 18 | 20 |
| 75113, 7442, 74LS123               | 7 | 8 | 12 | 14 | 16 | 18 | 20 |
| 74LS174, 74LS193, 74LS195, 74LS279 | 7 | 8 | 12 | 14 | 16 | 18 | 20 |
| 324                                | 7 | 8 | 12 | 14 | 16 | 18 | 20 |
| ROM                                | 7 | 8 | 12 | 14 | 16 | 18 | 20 |
| UNSPECIFIED                        | 7 | 8 | 12 | 14 | 16 | 18 | 20 |
| 339                                | 7 | 8 | 12 | 14 | 16 | 18 | 20 |
| 339                                | 7 | 8 | 12 | 14 | 16 | 18 | 20 |
| 339                                | 7 | 8 | 12 | 14 | 16 | 18 | 20 |

| REV. | B             | C             | D             | E             | F             | G             | H             | I             | J             | K             | L             | M             |
|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| CHG  | 5414025-CX001 | 5414025-CX002 | 5414025-CX003 | 5414025-CX005 | 5414025-CX006 | 5414025-CX008 | 5414025-CX009 | 5414025-CX010 | 5414025-CX012 | 5414025-CX014 | 5414025-CX013 | 5414025-CX014 |
| REV. | M. BROWN      | M. BROWN      | M. ZARICH     | M. BROWN      | M. BROWN      | M. BROWN      | M. BROWN      | M. BROWN      | M. BROWN      | M. BROWN      | M. BROWN      | M. BROWN      |
| DATE | 11/1/78       | 11/1/78       | 11/1/78       | 11/1/78       | 11/1/78       | 11/1/78       | 11/1/78       | 11/1/78       | 11/1/78       | 11/1/78       | 11/1/78       | 11/1/78       |

|                         |        |                        |                                         |
|-------------------------|--------|------------------------|-----------------------------------------|
| DRN. 7/1/78             | 5/1/78 | FIRST USED ON          | digital                                 |
| CHK'D W. J. [Signature] | 3/1/78 | TITLE                  | DRIVE LOGIC (STATE CONTROL LOGIC) (DLI) |
| ENG. [Signature]        | 5/1/78 | PROJ. ENG. [Signature] |                                         |
| PROD. [Signature]       | 5/1/78 | PROD. [Signature]      |                                         |
| NEXT HIGHER ASSY.       |        | SCALE                  | 1 OF 8                                  |
| B-DD-5414025-C          | SIZE   | CODE                   | NUMBER                                  |
| SCALE                   | D      | CS                     | 5414025-0-1                             |
| SHEET                   | 1      | OF                     | 8                                       |
|                         |        |                        |                                         |

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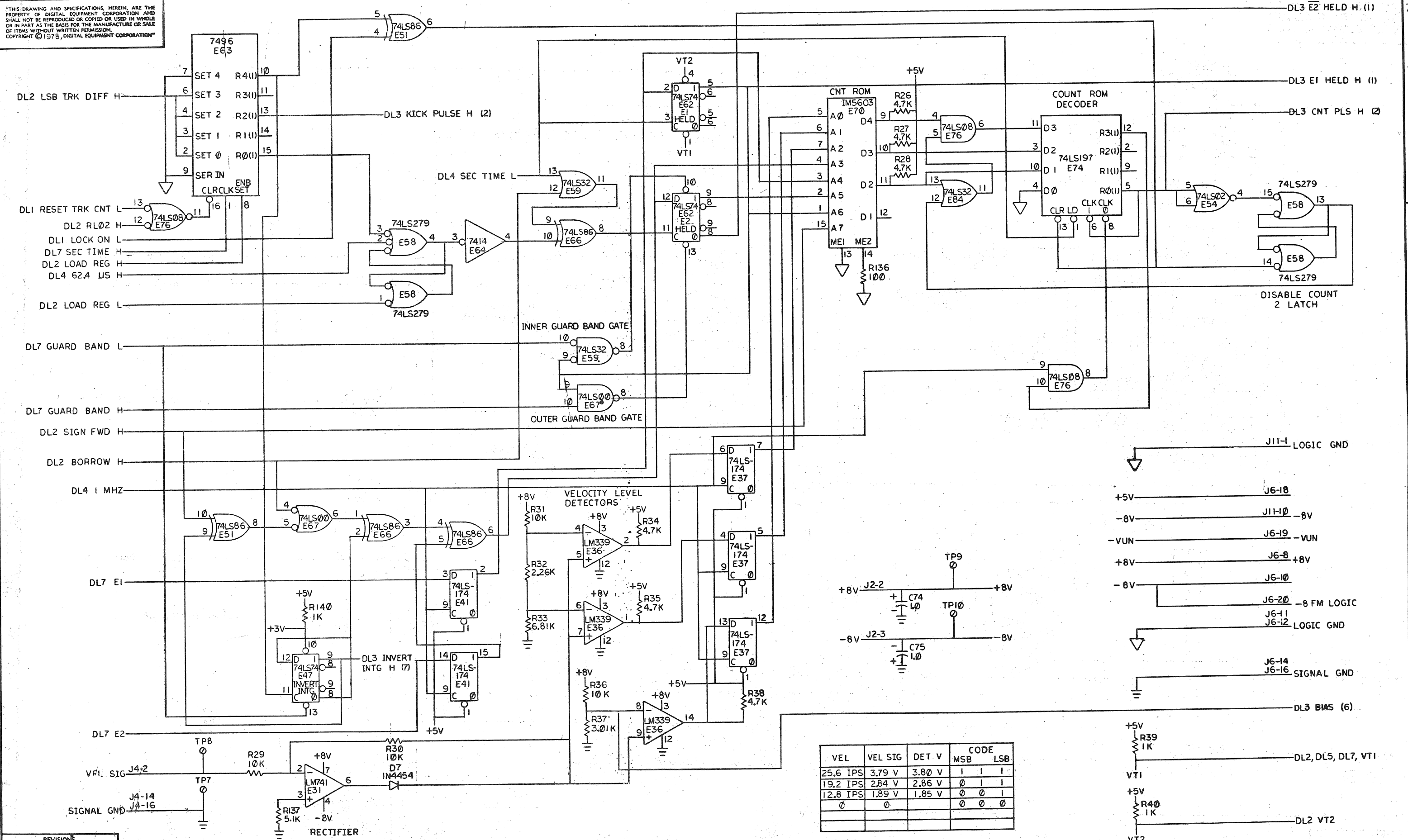


| CMD 2 | CMD 1 | MODE        | VEL   |
|-------|-------|-------------|-------|
| 0     | 0     | OFF         | 0     |
| 0     | 1     | GUARD BAND  | 3 IP  |
| 1     | 0     | HEAD LOAD   | 6 IP  |
| 1     | 1     | HEAD UNLOAD | 15 IP |

# NOTES:

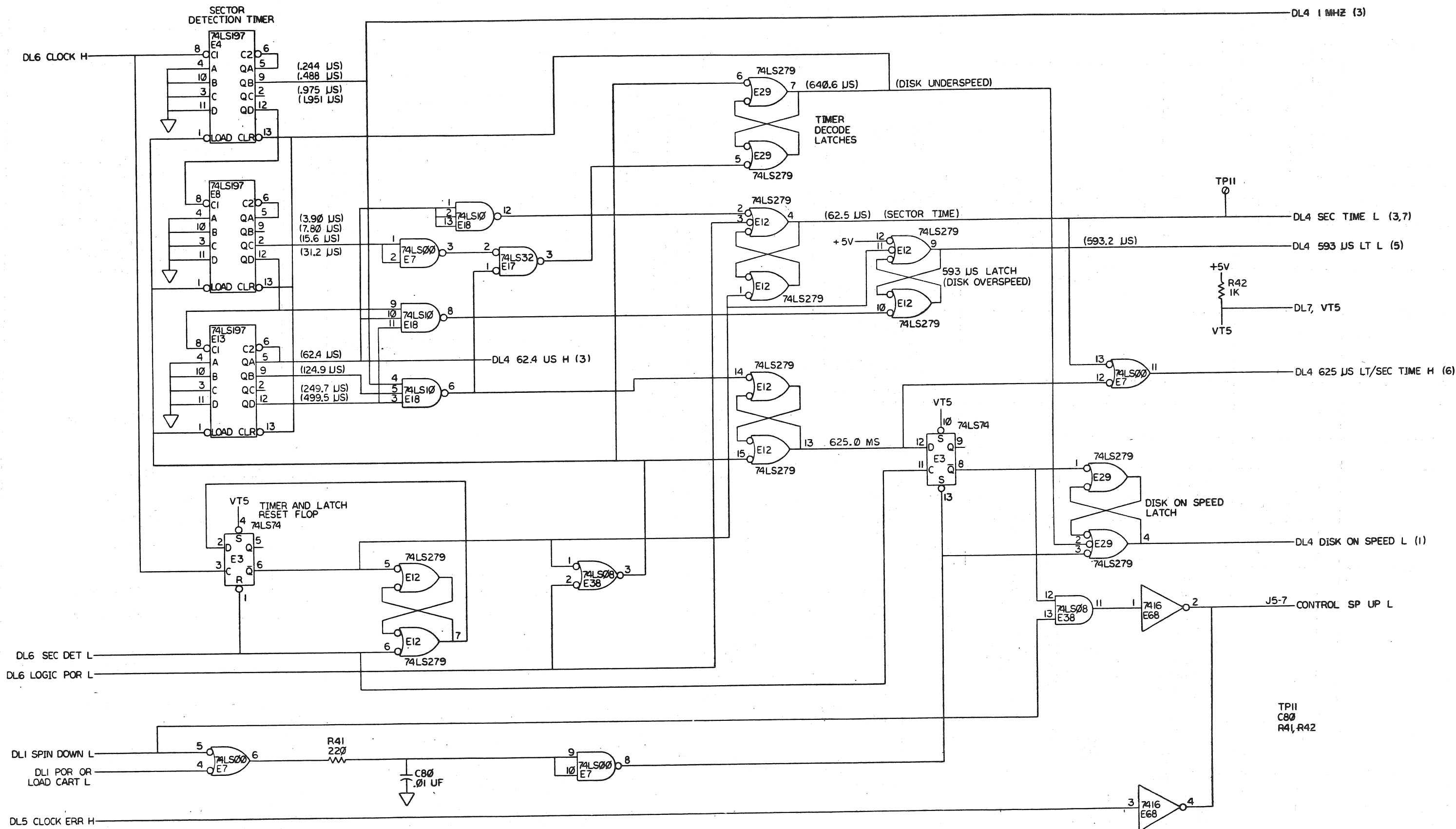
1. W1 IN FOR RL01.  
W1 OUT FOR RL02.
2. W2 NOT FOR FIELD USE.  
(W2 IS ON DL5 PAGE)
3. J5-17 (SH.1) MAY BE ACTIVE  
FROM THE BRUSH DRIVE ASSY,  
BUT THE BRUSHES CAN BE  
REMOVED FROM THE DRIVE  
WHEN USING CS REV H OR  
LATER.

| REVISIONS |            |      |  |  |  |  |  |  |  |  |  |  | TITLE             |      | SIZE  | CODE | NUMBER          |   | REV.  |  |
|-----------|------------|------|--|--|--|--|--|--|--|--|--|--|-------------------|------|-------|------|-----------------|---|-------|--|
| CHK       | CHANGE NO. | REV. |  |  |  |  |  |  |  |  |  |  | DRIVE LOGIC (DL2) |      | D     | CS   | 5414025 - 0 - 1 |   | L     |  |
|           |            |      |  |  |  |  |  |  |  |  |  |  |                   |      |       |      |                 |   |       |  |
|           |            |      |  |  |  |  |  |  |  |  |  |  | SCALE             | 1/4" | SHEET | 2    | OF              | 8 | DIST. |  |



| VEL      | VEL SIG | DET V  | CODE |   |    |
|----------|---------|--------|------|---|----|
|          |         |        | MSB  |   | LS |
| 25.6 IPS | 3.79 V  | 3.80 V | 1    | 1 | 1  |
| 19.2 IPS | 2.84 V  | 2.86 V | 0    | 1 | 1  |
| 12.8 IPS | 1.89 V  | 1.85 V | 0    | 0 | 1  |
| 0        | 0       |        | 0    | 0 | 0  |
|          |         |        |      |   |    |
|          |         |        |      |   |    |

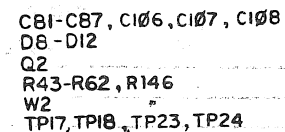
| REVISIONS |            |      |  |  |  |  |  |  |                                    | VT2       |             |       |  |  |
|-----------|------------|------|--|--|--|--|--|--|------------------------------------|-----------|-------------|-------|--|--|
| CHK       | CHANGE NO. | REV. |  |  |  |  |  |  | TITLE                              | SIZE CODE | NUMBER      | REV.  |  |  |
|           |            |      |  |  |  |  |  |  | DRIVE LOGIC<br>(COUNT LOGIC) (DL3) | D CS      | 5414025-0-1 | .LI   |  |  |
|           |            |      |  |  |  |  |  |  | SCALE                              | SHEET     | OF          | DIST. |  |  |
|           |            |      |  |  |  |  |  |  | 3                                  | 8         |             |       |  |  |



|                                                                                             |  |              |  |               |  |                    |  |  |  |         |  |
|---------------------------------------------------------------------------------------------|--|--------------|--|---------------|--|--------------------|--|--|--|---------|--|
| TITLE DRIVE LOGIC<br>(DISK SPEED CONTROL) (DL4)                                             |  |              |  | SIZE CODE DCS |  | NUMBER 5414025-0-1 |  |  |  | REV. L1 |  |
| SCALE  |  | SHEET 4 OF 8 |  | DIST.         |  |                    |  |  |  |         |  |



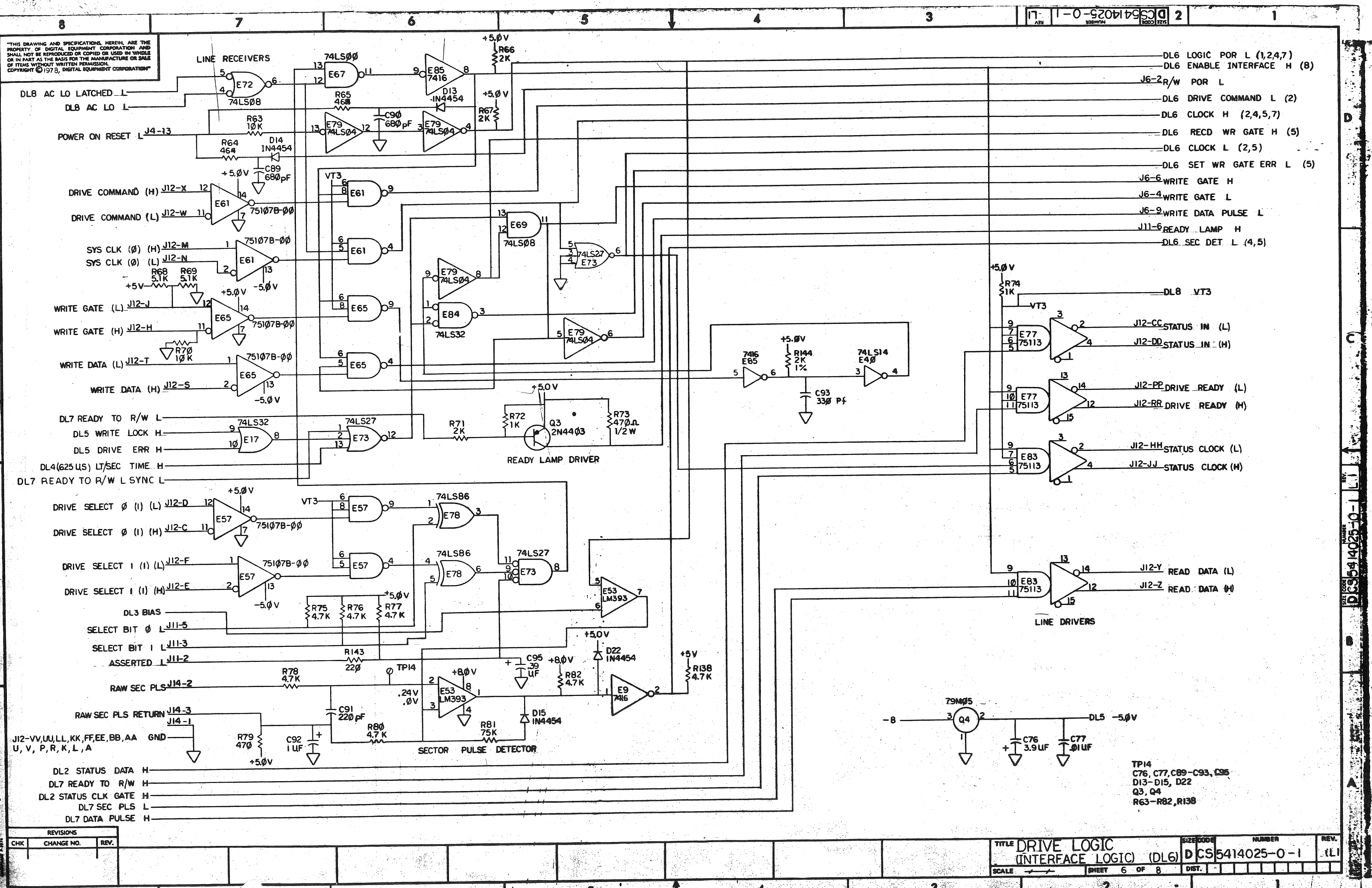
| REVISIONS |            |      |
|-----------|------------|------|
| CHK       | CHANGE NO. | REV. |
|           |            |      |



| REVISIONS |            |      |
|-----------|------------|------|
| CHK       | CHANGE NO. | REV. |
|           |            |      |

|       |     |                                    |        |       |      |             |  |      |
|-------|-----|------------------------------------|--------|-------|------|-------------|--|------|
| TITLE |     | DRIVE LOGIC<br>(ERROR LOGIC) (DL5) |        | SIZE  | CODE | NUMBER      |  | REV. |
|       |     |                                    |        | D     | CS   | 5414025-0-1 |  | L1   |
| SCALE | / / | SHEET                              | 5 OF 8 | DIST. |      |             |  |      |

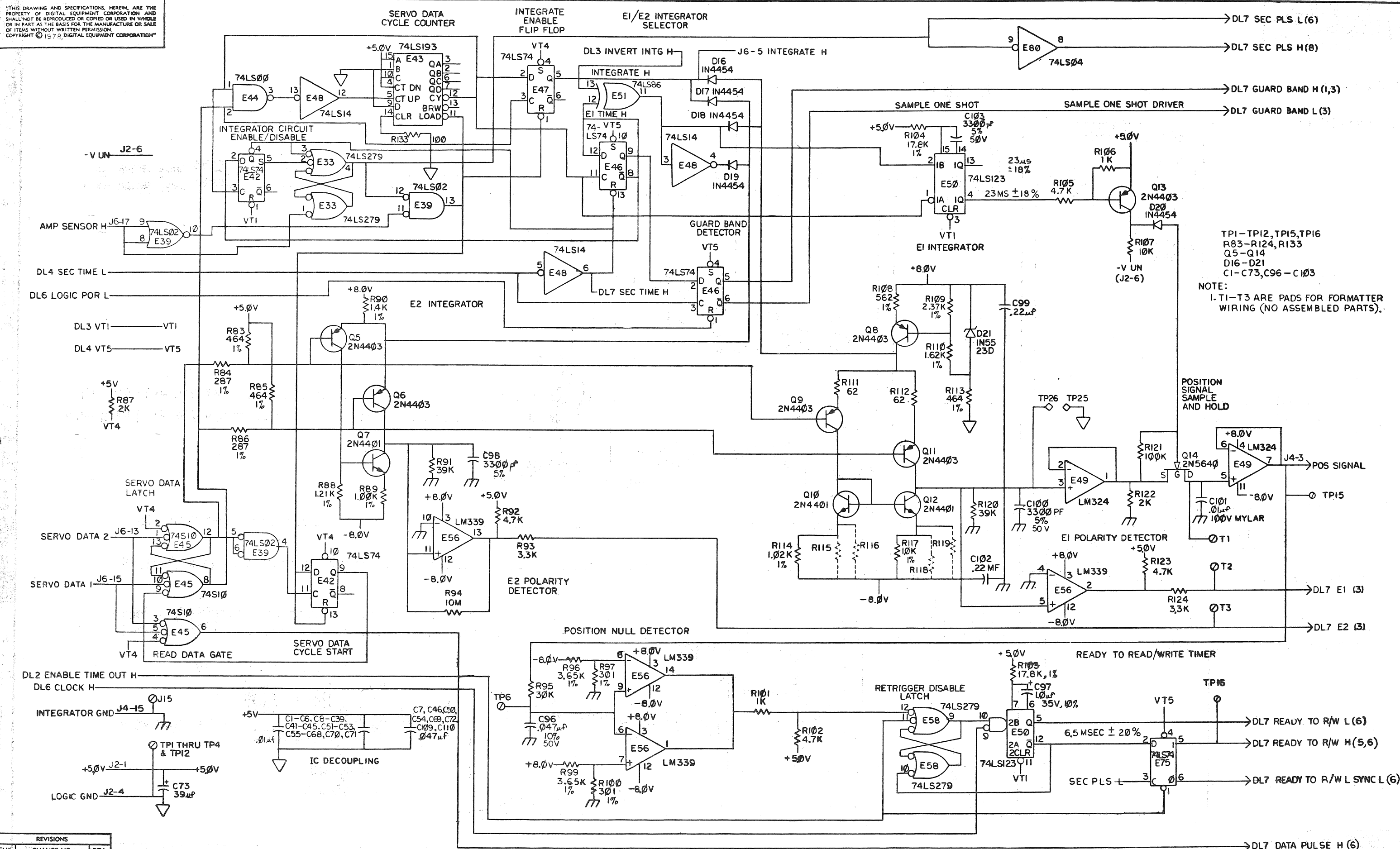
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| REVISIONS |            |      | TITLE                               |  | SIZE CODE        |  | NUMBER |  | REV. |  |
|-----------|------------|------|-------------------------------------|--|------------------|--|--------|--|------|--|
| CHK       | CHANGE NO. | REV. | DRIVE LOGIC (INTERFACE LOGIC) (DL6) |  | D CS 5414025-0-1 |  | 6 OF 8 |  | (L)  |  |
|           |            |      |                                     |  |                  |  |        |  |      |  |



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TPI-TPI2, TPI5, TPI6  
R83-R124, R133  
Q5-Q14  
D16-D21  
C1-C73, C96-C103

NOTE:  
1. T1-T3 ARE PADS FOR FORMATTER  
WIRING (NO ASSEMBLED PARTS).

| REVISIONS |            |      | TITLE                                   |  | SIZE CODE        |  | NUMBER |  | REV. |  |
|-----------|------------|------|-----------------------------------------|--|------------------|--|--------|--|------|--|
| CHK       | CHANGE NO. | REV. | DRIVE LOGIC<br>(INTEGRATOR LOGIC) (DL7) |  | D CS 5414025-0-1 |  | 7 OF 8 |  | LI   |  |
|           |            |      | SCALE                                   |  | SHEET            |  | DIST.  |  |      |  |

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DL2 RESET ERROR LATCHES L

DL6 ENABLE INTERFACE H

DRIVE SELECT/PARTIAL  
SECTOR PULSE DISABLE

SECTOR PULSE  
LINE DRIVER

J12-MM DRIVE SECTOR PLS L  
J12-NN DRIVE SECTOR PLS H

DL7 SEC PLS H

MULTIPLE DRIVE SELECT  
ERROR DETECTOR

DL6 VT3 — VT3  
DL6 -5.0V — -5.0V

DL8 DRIVE SELECT ERR L (5)  
DL8 DRIVE SELECT ERR H (2)(5)

DRIVE SELECT  
ERROR LATCH

AC LO L J12-B

DL8 AC LO L (6)  
DL8 AC LO LATCHED L (6)

DL1 HM SW L J4-9

DL5 VOLUME CHECK H  
DL5 DRIVE ERR H

J12-SS DRIVE ERROR L  
J12-TT DRIVE ERR H

MULTIPLE DRIVE SELECT ERROR  
CONDITIONAL DRIVE DESELECT

FAULT LAMP DRIVER  
J11-B FAULT LAMP H

C94, C104, C105  
Q15  
R125-R130

| REVISIONS |            |      |
|-----------|------------|------|
| CHK       | CHANGE NO. | REV. |
|           |            |      |
|           |            |      |

|                            |       |                   |                       |             |
|----------------------------|-------|-------------------|-----------------------|-------------|
| TITLE<br>DRIVE LOGIC (DL8) |       | SIZE CODE<br>D CS | NUMBER<br>5414025-0-1 | REV.<br>L1c |
| SCALE                      | SHEET | 8 OF 8            |                       | DIST.       |