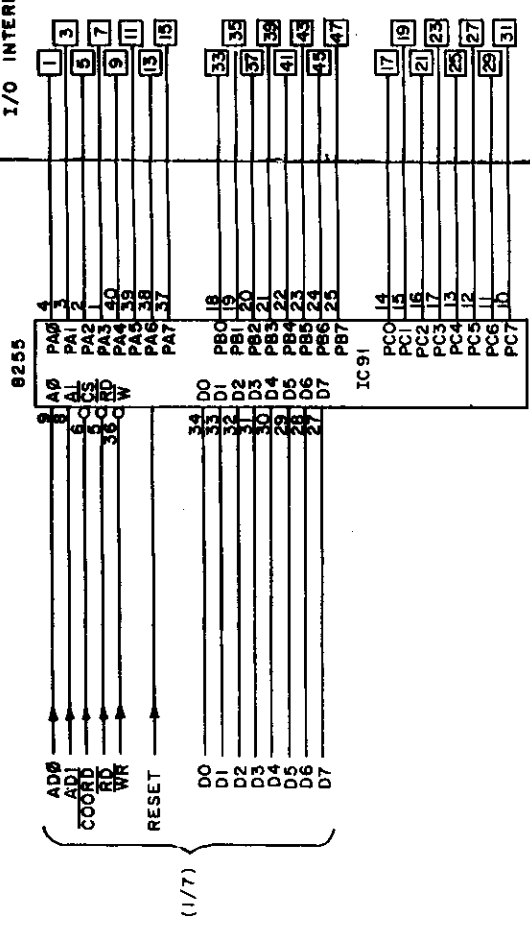
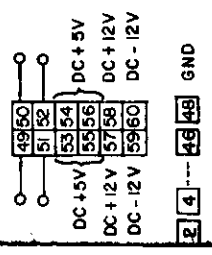
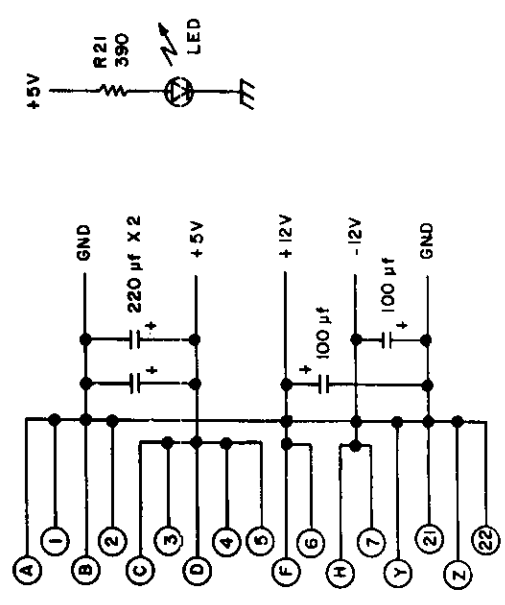


CN4
I/O INTERFACE



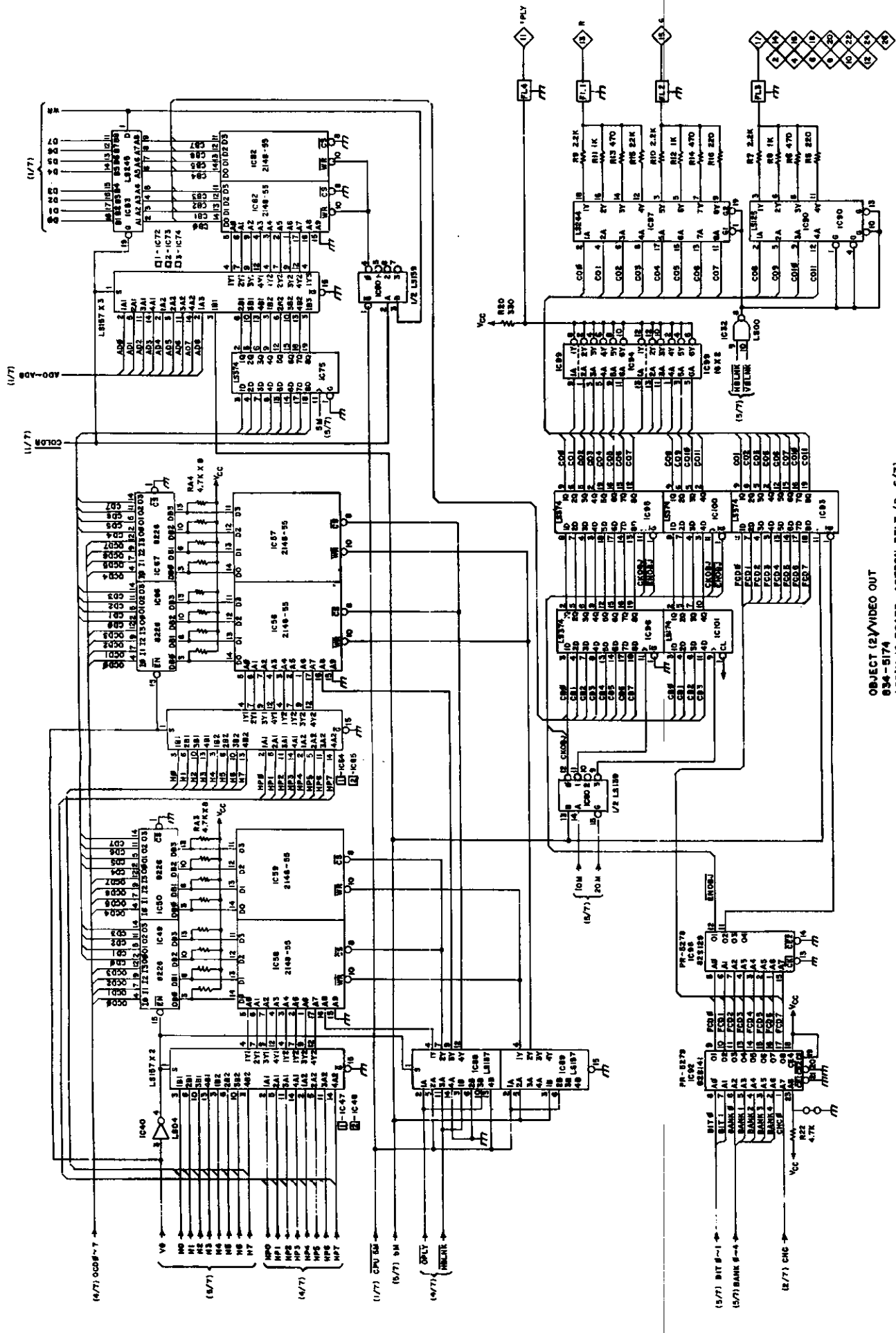
CN1
44P EDGE CONN



I/O - INTERFACE
834-5174
ASSY IC BOARD ASTRON BELT (D-7/7)

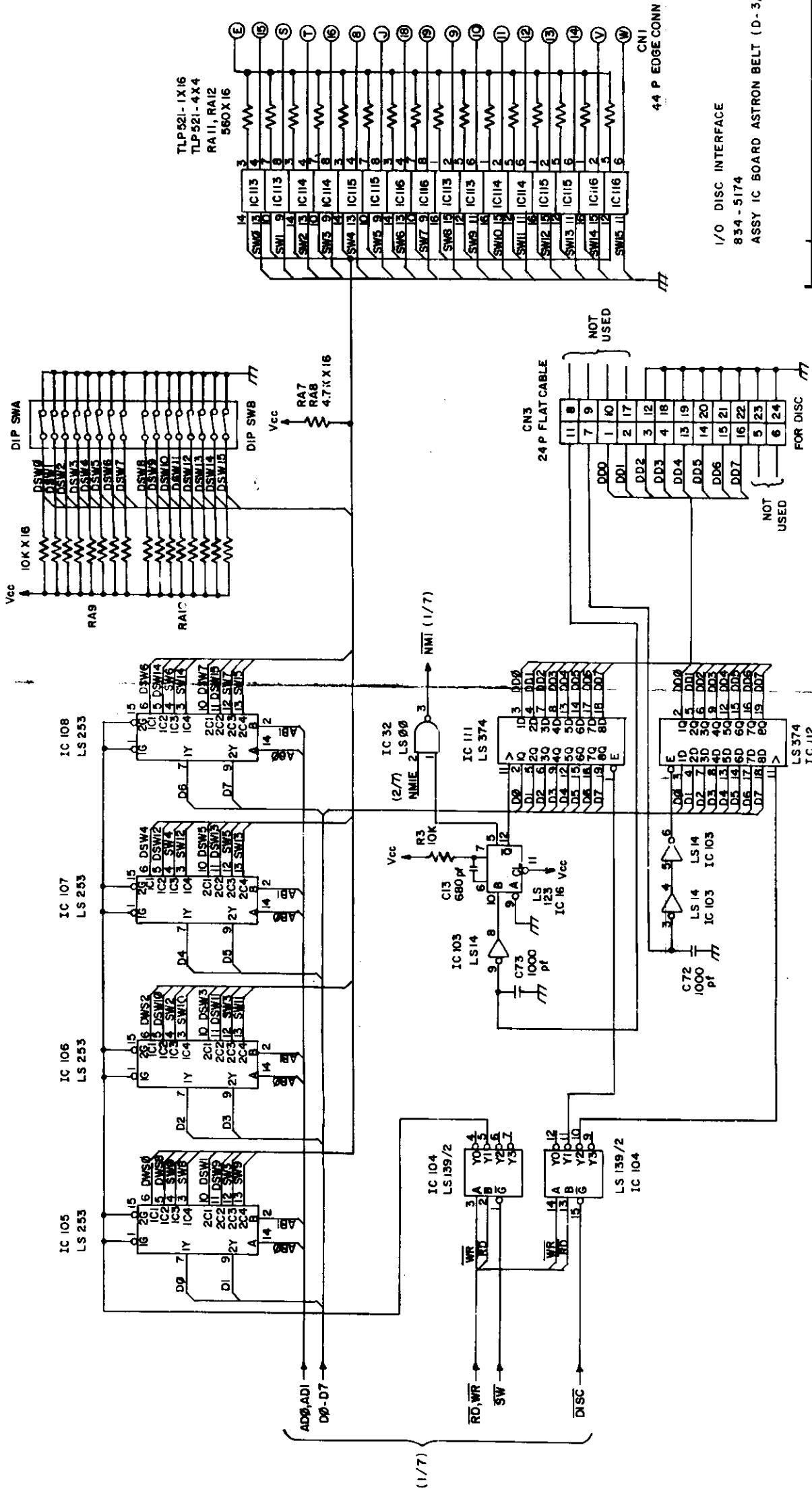
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| SHEET 7 OF 7 | |
| REVISIONS | |
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|---------------------------------|---------|------------------------------|-----------------|
| PROJECT ENG: J. SZERSZEN | | USED ON ASTRON BELT | |
| DO NOT SCALE DWG. | | SCALE FULL | NO. REQ'D 1 PER |
| DIM TOLERANCES UNLESS SPECIFIED | | SCHEMATIC DWG | |
| UNLESS OTHERWISE SPECIFIED | | MAIN IC BD (PIONEER) | |
| MATERIAL | | Q834-05174-0300 | |
| HOLD DIA | | PART NO. MO51 - 00A30 - A046 | |
| DATE 11/16/83 | DRN 100 | FRANKLIN PK. ILL. | |
| | | Midway / MIDWAY MFG. CO. | |



OBJECT (12) VIDEO OUT
 834-5174
 ASS'Y IC BOARD ASTRON BELT (D-6/7)

| PROJECT ENG. J. SZERSZEN | | HEAT TREAT | | SCALE FULL | | USED ON ASTRON BELT | | REVISIONS | |
|--|-----|------------|--------|------------|---|---------------------|----------|-----------|---------------------|
| DESIGNER | REV | DATE | FINISH | CHECKER | DATE | SCALE | NO REQ'D | PER | PART NO |
| | RLW | 11/21/83 | | | | | | | M051 - 00A30 - A046 |
| SCHEMATIC DWG. MAIN IC BD. (PIONEER) Q834-05174-0300 | | | | | Bates / MIDWAY MFG. CO. FRANKLIN PK. ILL. | | | | |

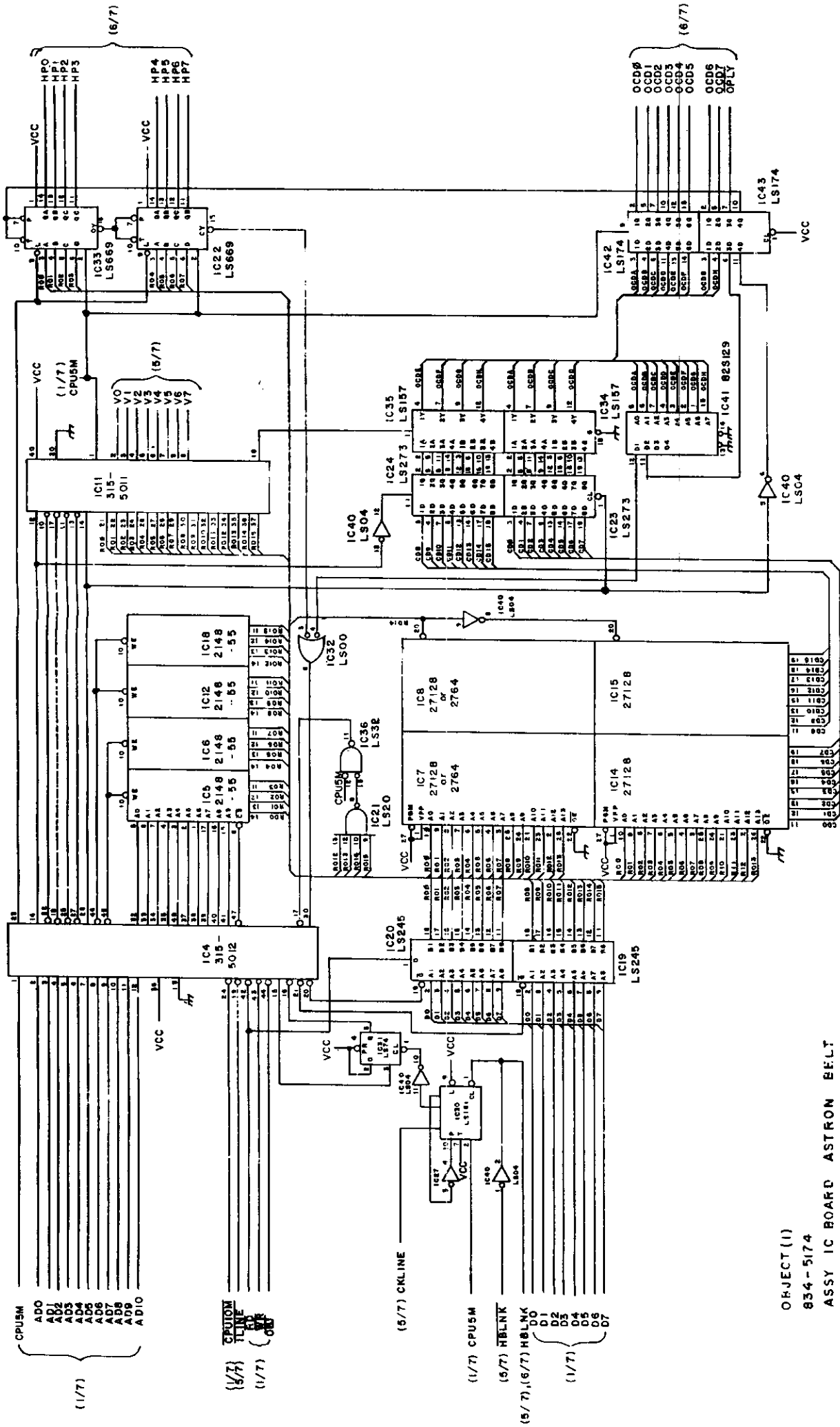


TLP521-1X16
 TLP521-4X4
 RA11, RA12
 560X16

I/O DISC INTERFACE
 834-5174
 ASSY IC BOARD ASTRON BELT (D-3/7)

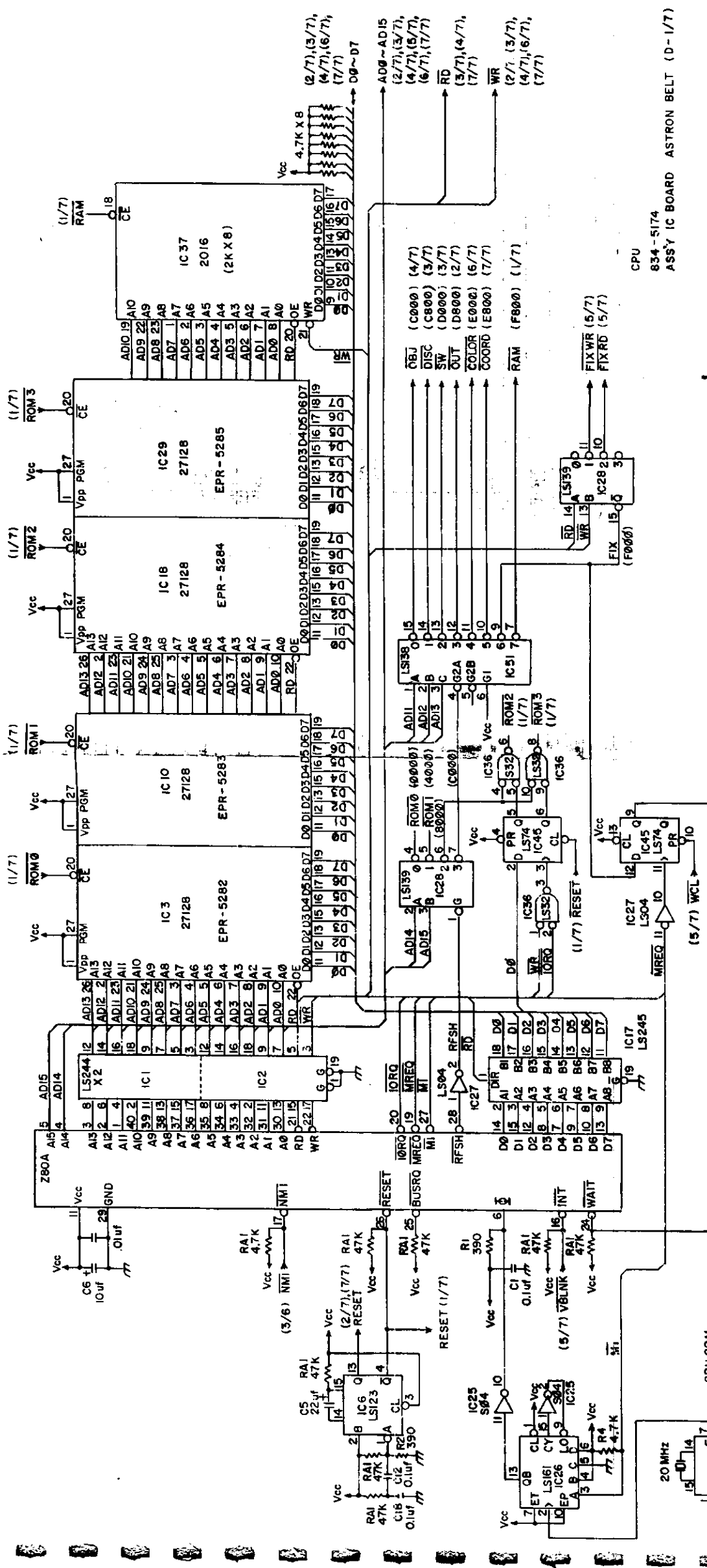
SHEET 3 OF 7
 REVISIONS

| | | | |
|--------------------------|--|---------------------------|--|
| PROJECT ENG: J. SZPFSZEN | | USED ON ASTRON BELT | |
| SCALE: FULL | | NO. REQ'D: 1 PER | |
| HEAT TREAT | | SCHEMATIC DWG | |
| MATERIAL | | MAIN IC BD. (PIONEER) | |
| FINISH | | Q534-05174-0300 | |
| DATE: 11/17/83 | | PART NO. MO51-00A30 -A046 | |
| DRAWN: [Signature] | | FRANKLIN, PK | |
| CHECKED: [Signature] | | MIDWAY MFG. CO. | |
| DATE: 11/17/83 | | FRANKLIN, PK | |



OBJECT (1)
834-5174
ASSY IC BOARD ASTRON BELT
(D-4/7)

| | | | |
|--|------------|-----------------------|--|
| PROJECT ENG: | | USED ON ASTRON BELT | |
| DO NOT REBUILD DWG. | SCALE | FULL | |
| DIM TOLERANCES UNLESS SPECIFIED | HEAT TREAT | NO. RECD 1 PER | |
| CONSTRUCTION TOLERANCES UNLESS SPECIFIED | WRT. | MAIN IC BD. (PIONEER) | |
| DATE 11/22/83 | FINISH | PART NO. | |
| DRN. BAK | | M051 - 00A30 - A046 | |
| DATE 11/22/83 | | Q834-05174-0300 | |
| DRN. BAK | | FRANKLIN PK ILL | |
| DATE 11/22/83 | | MIDWAY MFG. CO. | |



| | | | |
|---------------------------------|--|------------------------------|--|
| PROJECT ENG: J. SZERSZEN | | USED ON: ASTRON BELT | |
| DO NOT SCALE DRAWING | | SCALE: FULL | |
| HEAT TREAT: NONE | | NO. REVD: 1 PER | |
| DIM TOLERANCES UNLESS SPECIFIED | | SCHEMATIC DWG. | |
| DATE: 11-21-83 | | MAIN IC BD. (PIONEER) | |
| DRAWN: R.L.W. | | Q834-05174-0300 | |
| CHECKED: [Signature] | | PART NO: M051 - 00A30 - A046 | |
| DATE: 11-21-83 | | REV: 1 | |
| DATE: 11-21-83 | | REV: 2 | |
| DATE: 11-21-83 | | REV: 3 | |
| DATE: 11-21-83 | | REV: 4 | |
| DATE: 11-21-83 | | REV: 5 | |
| DATE: 11-21-83 | | REV: 6 | |
| DATE: 11-21-83 | | REV: 7 | |
| DATE: 11-21-83 | | REV: 8 | |
| DATE: 11-21-83 | | REV: 9 | |
| DATE: 11-21-83 | | REV: 10 | |
| DATE: 11-21-83 | | REV: 11 | |
| DATE: 11-21-83 | | REV: 12 | |
| DATE: 11-21-83 | | REV: 13 | |
| DATE: 11-21-83 | | REV: 14 | |
| DATE: 11-21-83 | | REV: 15 | |
| DATE: 11-21-83 | | REV: 16 | |
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| DATE: 11-21-83 | | REV: 98 | |
| DATE: 11-21-83 | | REV: 99 | |
| DATE: 11-21-83 | | REV: 100 | |

REVISIONS

SHEET 1 OF 7

ASTRON BELT (D-1/7)

ASSY IC BOARD

834-S174

CPU

834-S174

ASSY IC BOARD

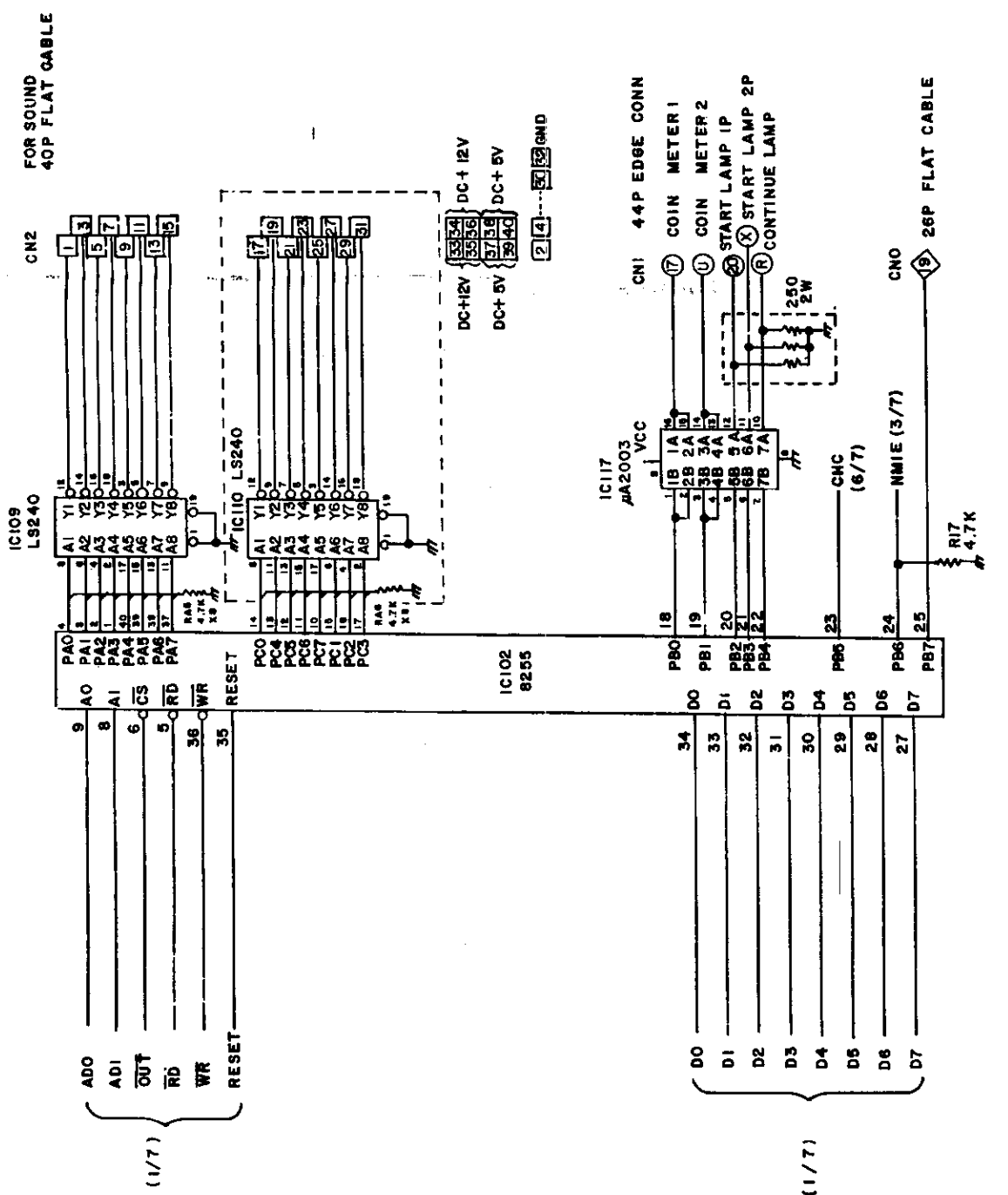
ASTRON BELT (D-1/7)

Midway / MIDWAY MFG. CO.

FRANKLIN PK 122

PART NO

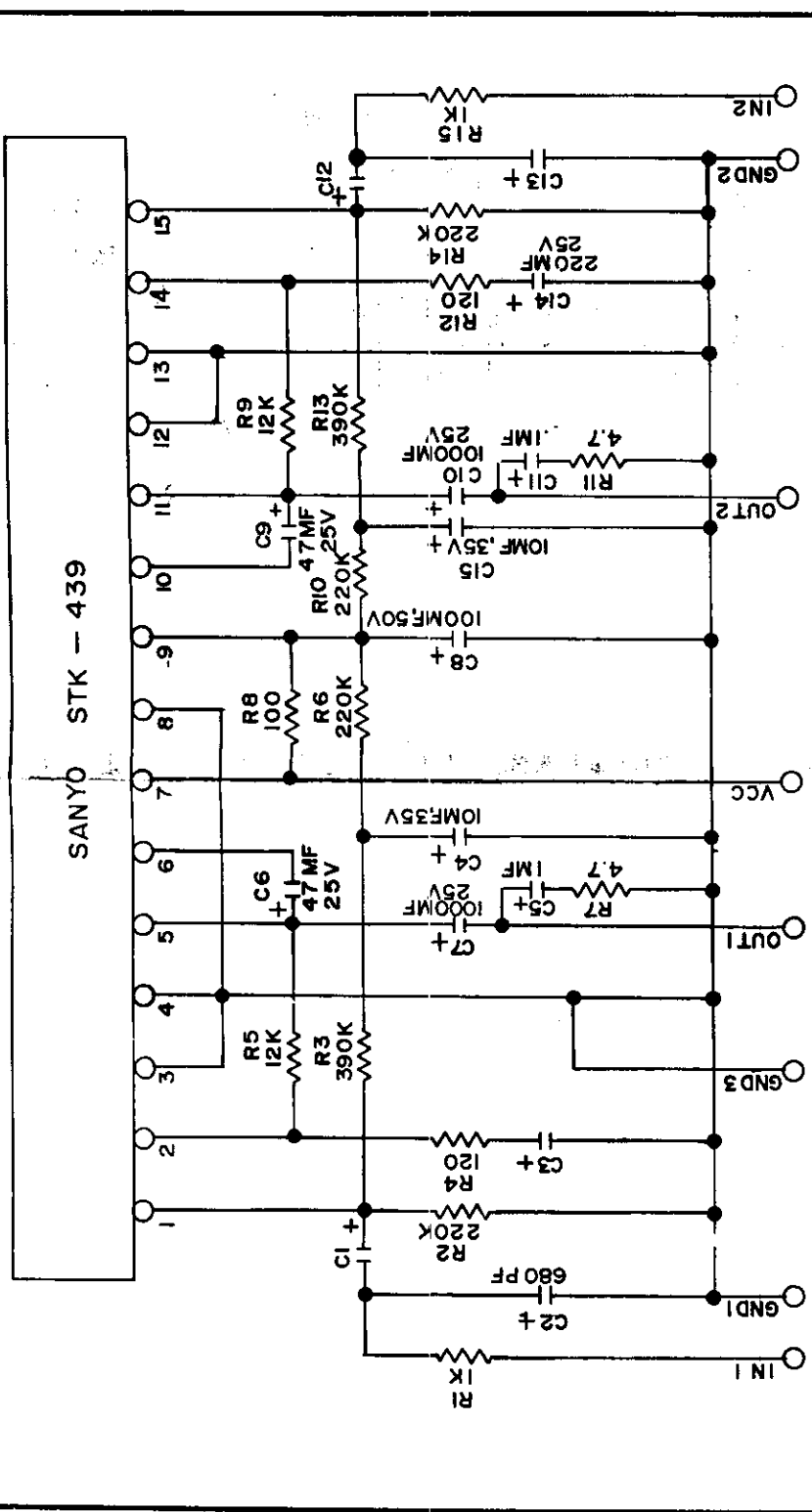
M051 - 00A30 - A046



OUTPUT
834-5174
ASSY IC BOARD ASTRON BELT
(D-2/7)

| | | | |
|----------------------------------|--|--------------------------|----------------|
| PROJECT ENG: J. SZERSZEN | | USED ON ASTRON BELT | |
| DO NOT SCALE DWG. | | SCALE | NO. RECD 1 PER |
| DIM. TOLERANCES UNLESS SPECIFIED | | FULL | |
| PRECISIONITY F.I.M. '80 | | SCHEMATIC DWG. | |
| FUNCTIONAL | | MAIN IC BD. (PIONEER) | |
| DECIMAL | | Q834-05174-0300 | |
| HOLE DIA .002 .000 | | PART NO. | |
| DATE 11/16/83 | | M051 - 00A30 - A046 | |
| DR. GAK | | FRANKLIN PK. ILL. | |
| C.D. | | Midway / MIDWAY MFG. CO. | |

SHEET 2 OF 7
REVISIONS



THIS DWG. IS CONFIDENTIAL & PROPERTY OF MIDWAY MFG. CO.

| | | | | | | | |
|---|--|---------------|---|----------|-------------|-------|------|
| DIM. TOLERANCES UNLESS OTHERWISE SPEC. | | FIRST USED ON | | ASTRON | | BELT | |
| CONCENTRICITY T.I.R. .002 | | DRN | M | DATE | 11 / 9 / 83 | SCALE | FULL |
| FRACTIONAL ± .005 | | MECH CHK | | MATERIAL | | | |
| DECIMAL ± .002 - .000 | | ELEC CHK | | FINISH | | | |
| HOLE DIA. + .002 - .000 | | | | | | | |
| ANGLE ± 1/2° | | | | | | | |
| DO NOT SCALE DWG. | | | | | | | |

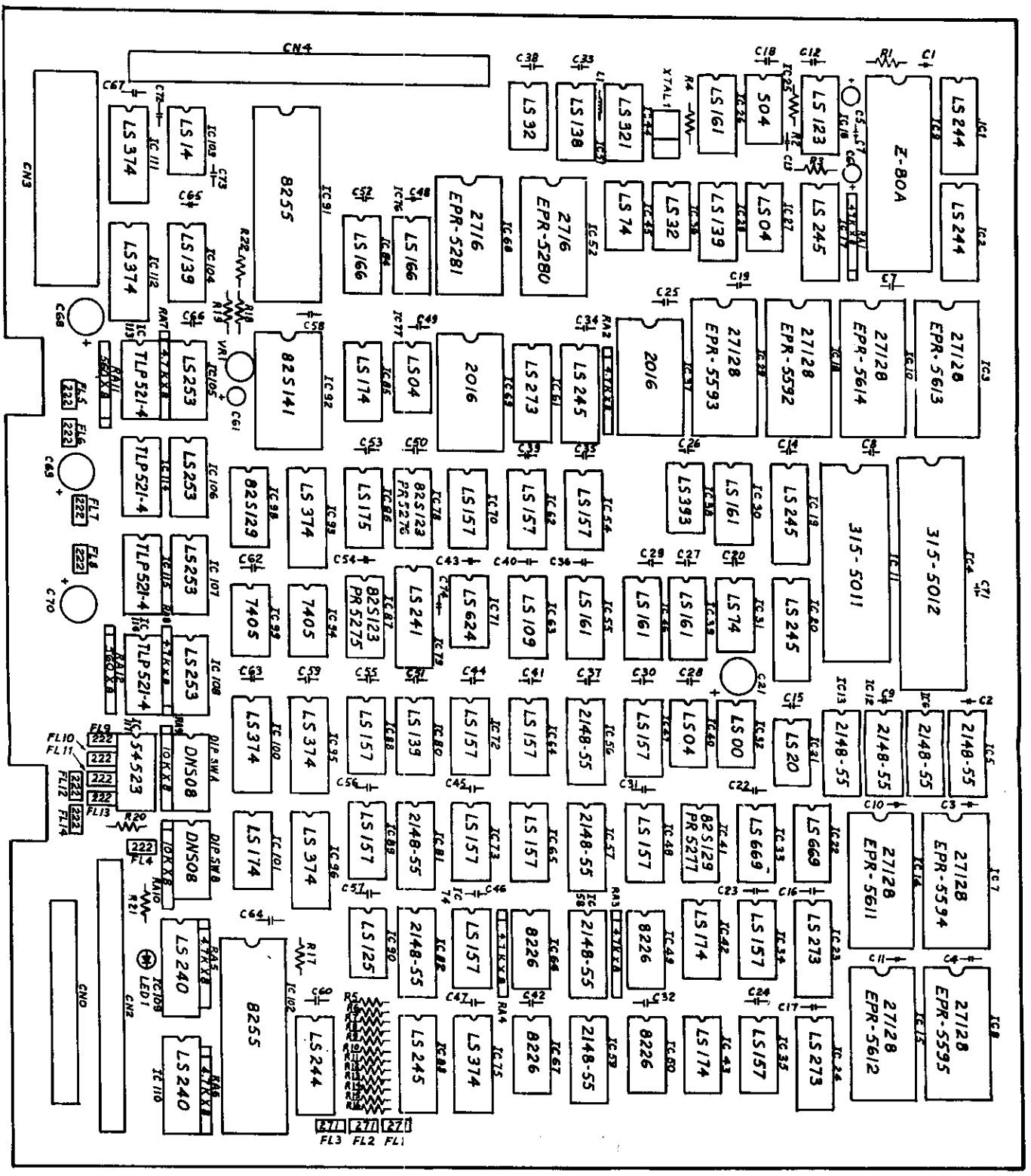
MIDWAY MFG. CO.
FRANKLIN PK., ILL. 60131
A BALLY CO.

POWER AMPLIFIER
Q834-00513-0000

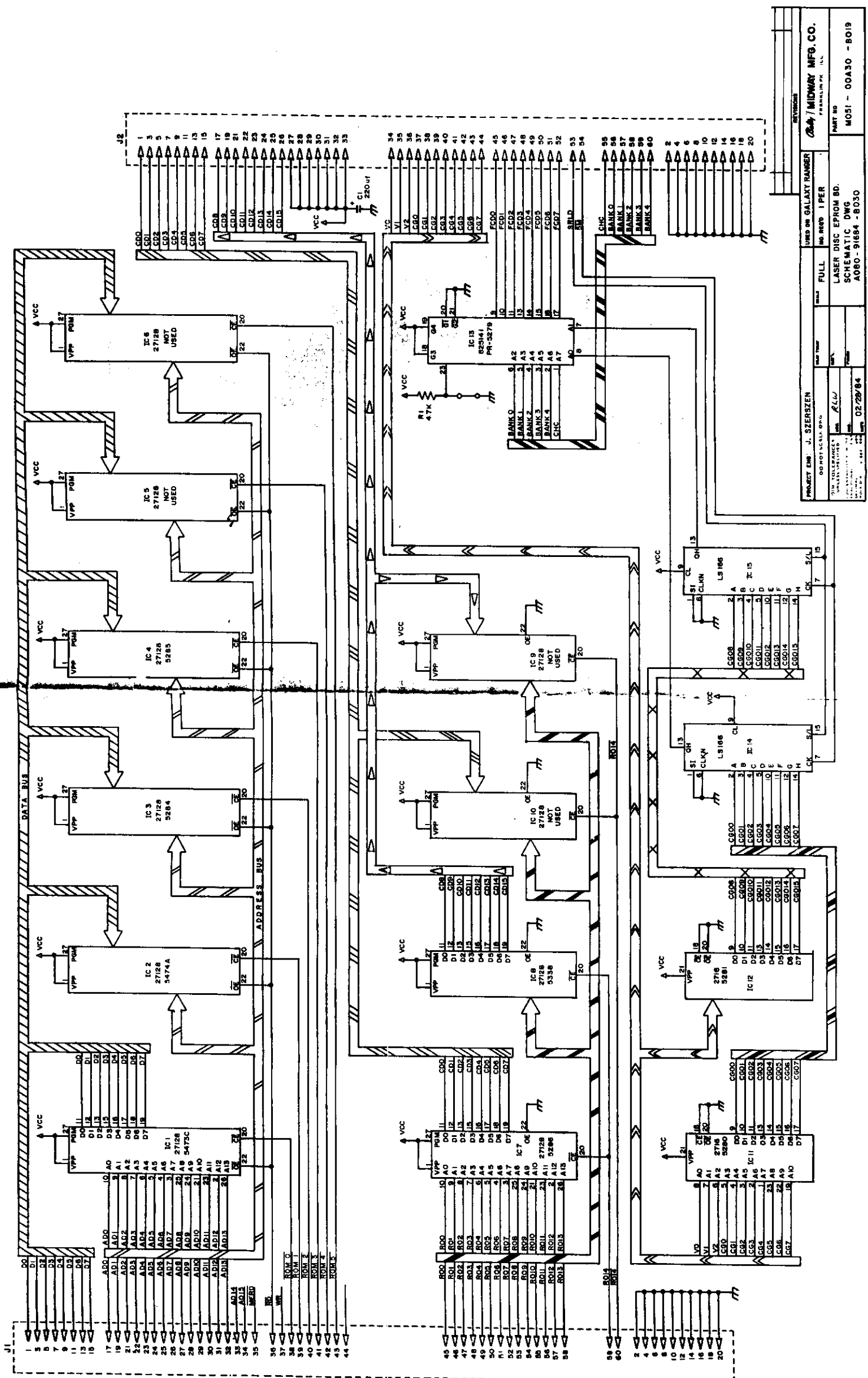
REVISIONS

PART NO. MO51-00A30-A034

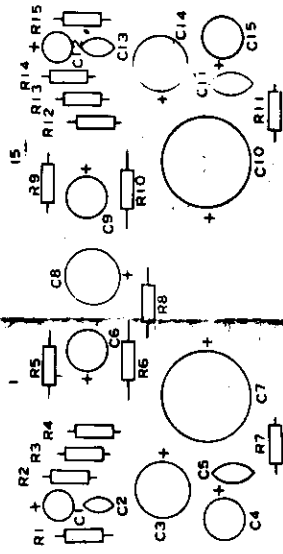
BRUNING - 40-107



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| PROJECT ENG: J. SZERSZEN | | USED ON | | REVISIONS | |
| DO NOT SCALE DWG | | SCALE FULL | | No. REQ'D PER | |
| DIM. TOLERANCES UNLESS SPECIFIED | | HEAT TREAT | | Baby / MIDWAY MFG. CO. | |
| DIP SWA | | DIP SWB | | FRANKLIN PK. ILL. | |
| DIP SWC | | DIP SWD | | PART NO. | |
| DIP SWE | | DIP SWF | | M051 - 00A30 - A045 | |
| DIP SWG | | DIP SWH | | MAIN I.C. BD (PIONEER) | |
| DIP SWI | | DIP SWJ | | ASSEMBLY DWG | |
| DIP SWK | | DIP SWL | | Q834 - 05174 - 0300 | |
| DIP SWM | | DIP SWN | | DATE 3 / 9 / 84 | |
| DIP SWO | | DIP SWP | | DATE 3 / 9 / 84 | |
| DIP SWQ | | DIP SWR | | DATE 3 / 9 / 84 | |
| DIP SWT | | DIP SWU | | DATE 3 / 9 / 84 | |
| DIP SWV | | DIP SWW | | DATE 3 / 9 / 84 | |
| DIP SWX | | DIP SWY | | DATE 3 / 9 / 84 | |
| DIP SWZ | | DIP SW1 | | DATE 3 / 9 / 84 | |
| DIP SW2 | | DIP SW3 | | DATE 3 / 9 / 84 | |
| DIP SW3 | | DIP SW4 | | DATE 3 / 9 / 84 | |
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| DIP SW99 | | DIP SW100 | | DATE 3 / 9 / 84 | |



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| PROJECT ENG: J. SZERZEN | | DESIGNED BY: GALAXY RAMBER | |
| DO NOT SCALE THIS DRAWING | | SCALE: 1 PER | |
| DATE: 02/28/84 | | PART NO: M051 - 00A30 - 8019 | |
| DRAWN BY: J. SZERZEN | | CHECKED BY: J. SZERZEN | |
| DESIGNED BY: GALAXY RAMBER | | PART NO: M051 - 00A30 - 8019 | |
| DATE: 02/28/84 | | DRAWN BY: J. SZERZEN | |
| CHECKED BY: J. SZERZEN | | DESIGNED BY: GALAXY RAMBER | |
| SCALE: 1 PER | | DO NOT SCALE THIS DRAWING | |
| PART NO: M051 - 00A30 - 8019 | | PROJECT ENG: J. SZERZEN | |
| DRAWN BY: J. SZERZEN | | DATE: 02/28/84 | |
| CHECKED BY: J. SZERZEN | | DESIGNED BY: GALAXY RAMBER | |
| SCALE: 1 PER | | DO NOT SCALE THIS DRAWING | |
| PART NO: M051 - 00A30 - 8019 | | PROJECT ENG: J. SZERZEN | |

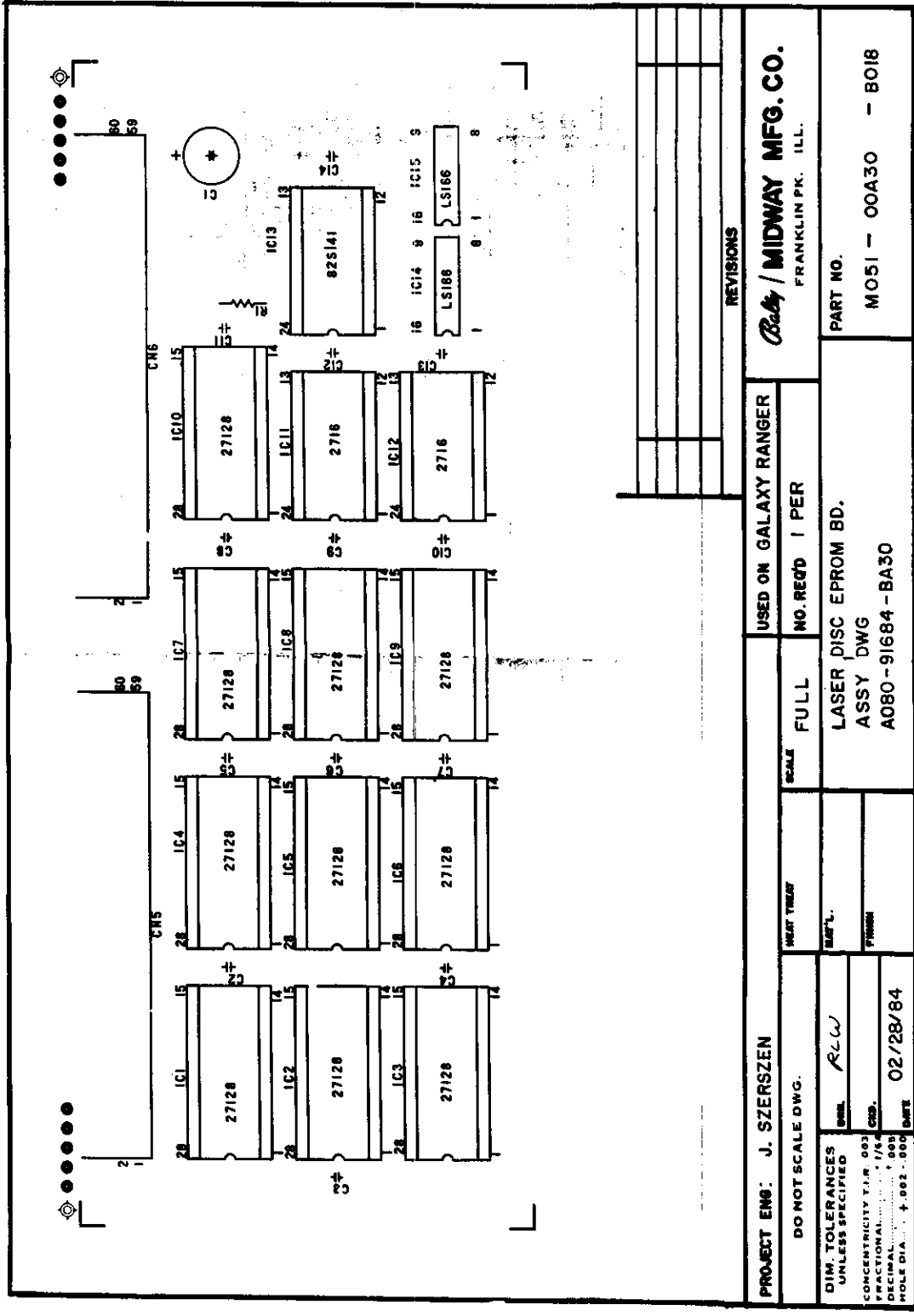


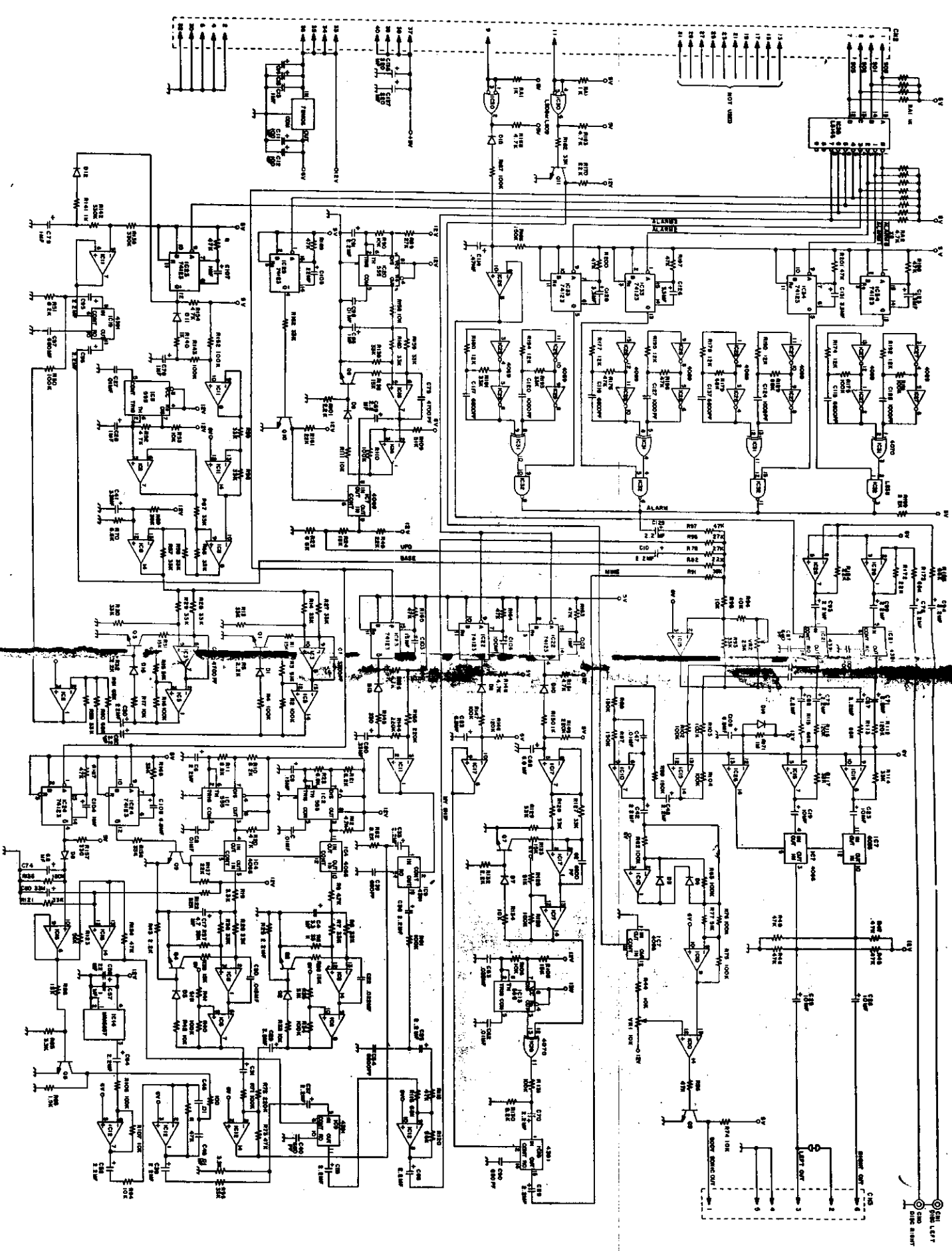
SEGA MADE IN JAPAN 834-0121



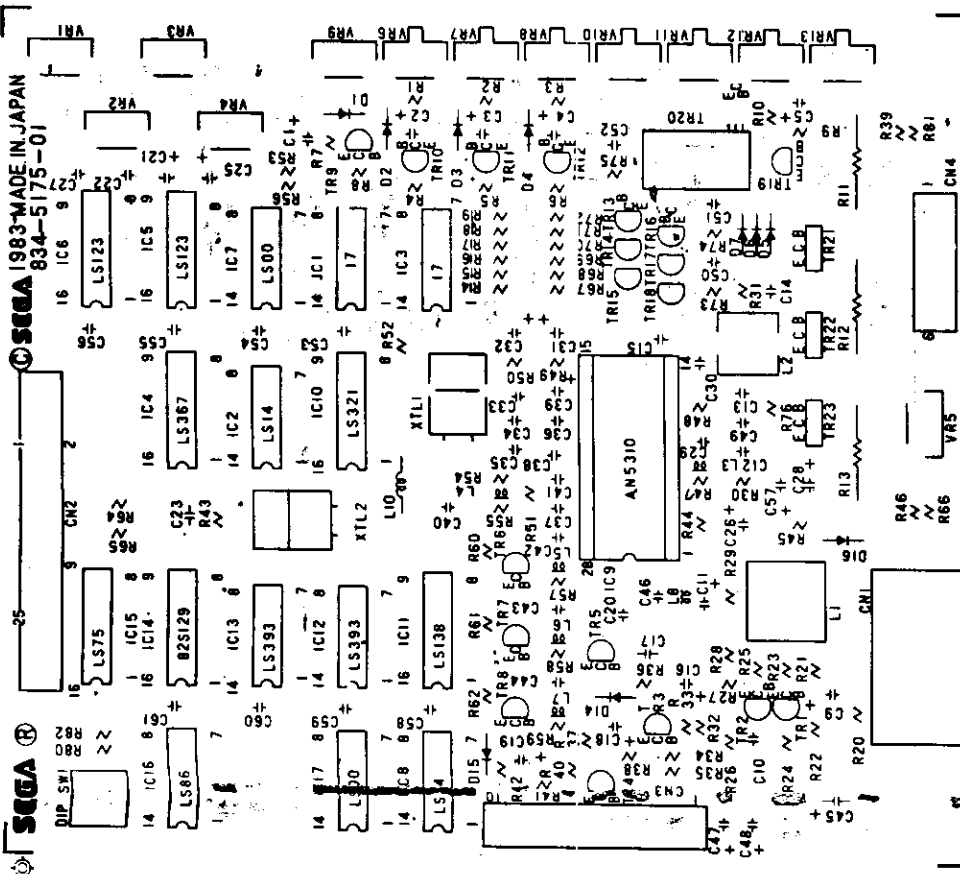
| REVISIONS | |
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|----------------------------------|--|-----------------------------------|------|--|-------|
| PROJECT ENG: | | USED ON ASTRON BELT | | Bally / MIDWAY MFG. CO. FRANKLIN PK. ILL. | |
| DO NOT SCALE DWG. | | SCALE | FULL | NO. RECD | 1 PER |
| DIM. TOLERANCES UNLESS SPECIFIED | | AUDIO POWER AMP P.C. ASSEMBLY DWG | | PART NO. MO51 - 00A30 - A033 | |
| CONCENTRICITY T.I.R. 0.02 | | Q834 - 00513 - 0000 | | | |
| FRACTIONAL 1/16 | | | | | |
| HOLE DIA. ±.002- .000 | | | | | |
| DATE 11/9/83 | | | | | |





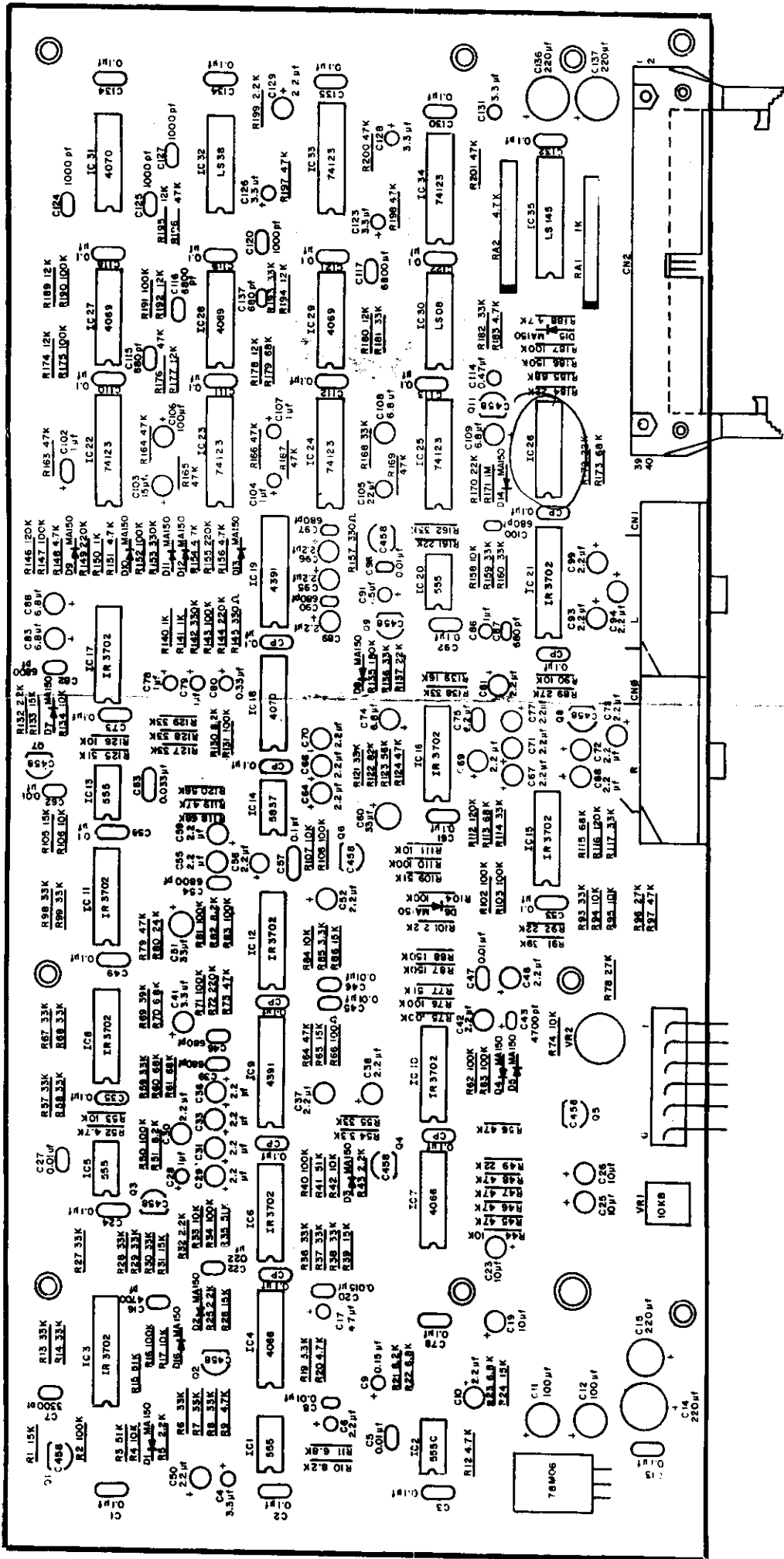
| | | | | | |
|--|--|--|--|---|--|
| PRINCE EMMETT STEINER 1000 S. 10th St. Lincoln, Nebraska 68502 TEL: 472-2222 FAX: 472-2222 E-MAIL: steiner@princeemmett.com | | USED IN GALAXY RANGER FULL 80 PAGES 1 PER SCHEMATIC DVD GALAXY RANGER SOUND BOARD 0034-0035-0000 | | MADE IN MEXICO PART NO. MOSI-00016 - A018 | |
|--|--|--|--|---|--|



SEGA 1983-MADE IN JAPAN
834-5175-01

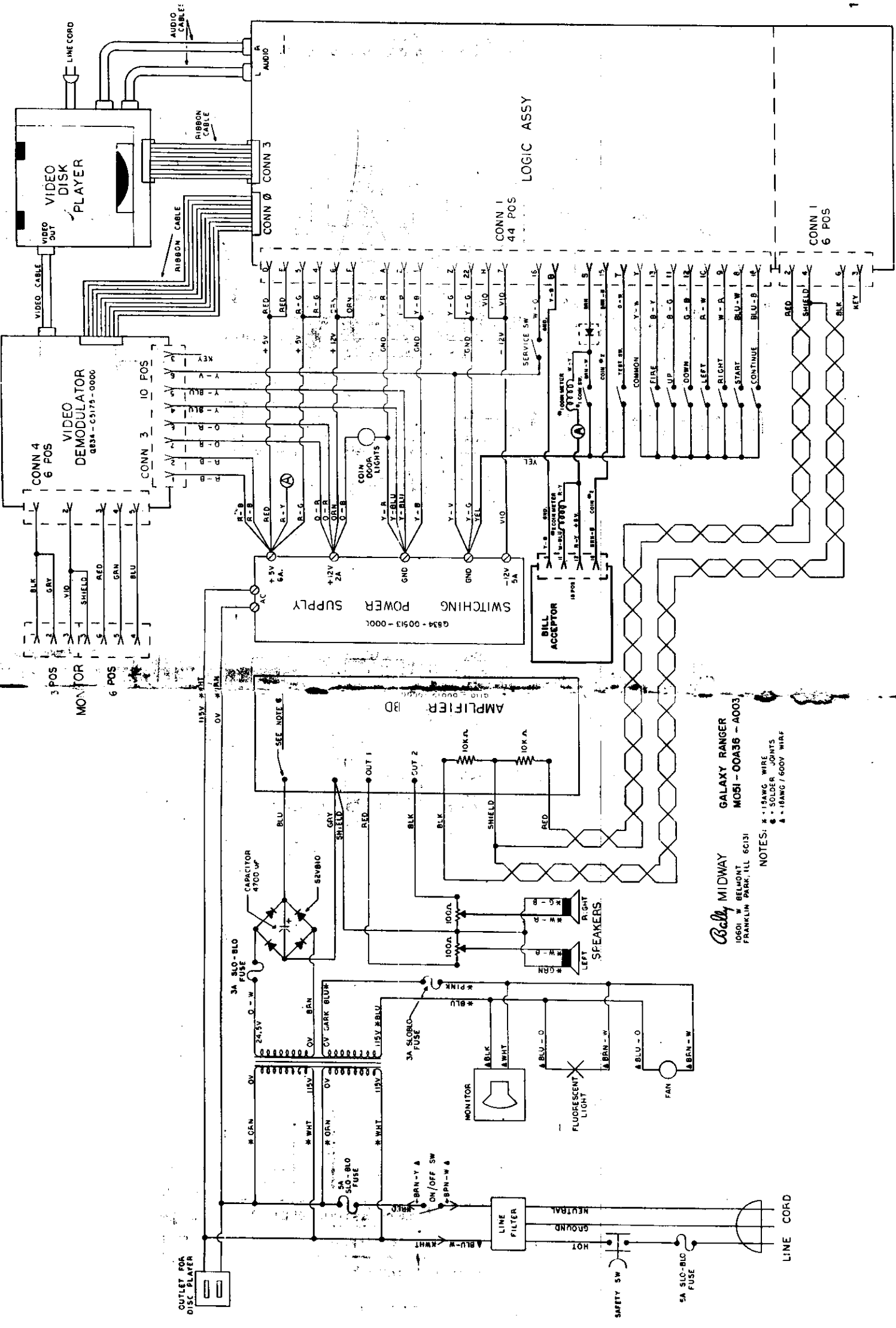
SEGA

| | | | |
|----------------------------------|--|------------------------|------|
| PROJECT ENG: | | USED ON ASTRON BELT | |
| DO NOT SCALE DWG. | | SCALE | FULL |
| DIM. TOLERANCES UNLESS SPECIFIED | | NO. REQ'D 1 PER | |
| CONCENTRICITY ± 0.03 | | DEMODULATOR P.C. | |
| FRACTIONAL ± 1/64 | | ASSEMBLY DWG | |
| DECIMAL ± 0.05 | | Q 834-05175-0000 | |
| HOLE DIA ± 0.02 | | PART NO. | |
| DATE 11/9/83 | | M051 - 00A30 - A035 | |
| | | REVISIONS | |
| | | Baby / MIDWAY MFG. CO. | |
| | | FRANKLIN PK. ILL. | |



REVISIONS

| | | | |
|---------------------------------|--|-----------------------|-----------|
| PROJECT ENG: J. SZERSZEN | | USED ON GALAXY RANGER | |
| DO NOT SCALE DWG. | | SCALE | NO. REQ'D |
| DIM TOLERANCES UNLESS SPECIFIED | | FULL | 1 PER |
| UNCERTAINTY ± 0.001 | | HEAT TREAT | |
| DECIMAL | | FINISH | |
| MOLD DIA ± 0.02 0.00 | | DATE 2/16/84 | |
| SOUND BOARD ASSEMBLY DWG | | PART NO | |
| Q834 - 05315 - 0000 | | M051 - 00A36 - A012 | |
| Bally / MIDWAY MFG. CO. | | FRANKLIN PK ILL | |



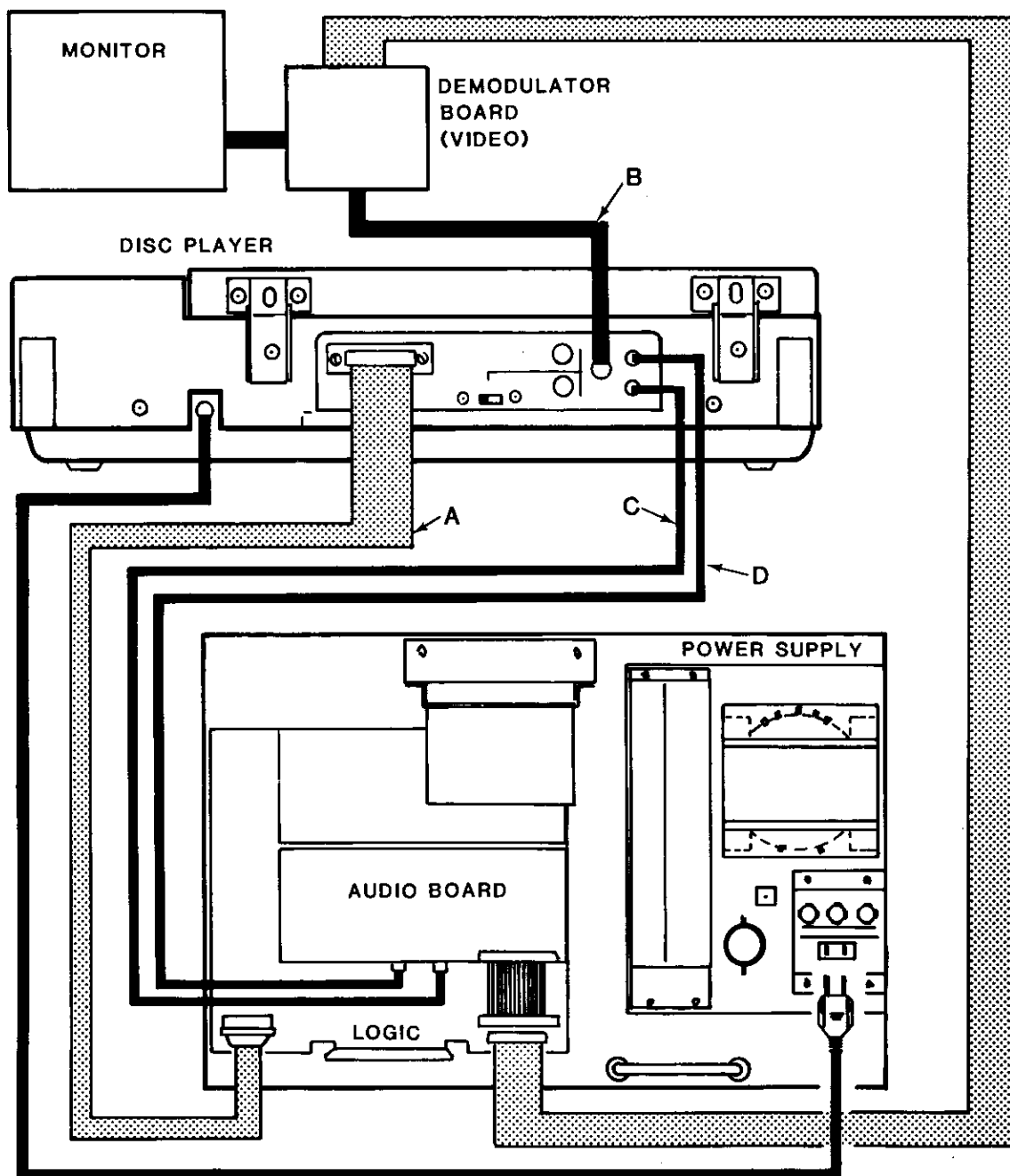
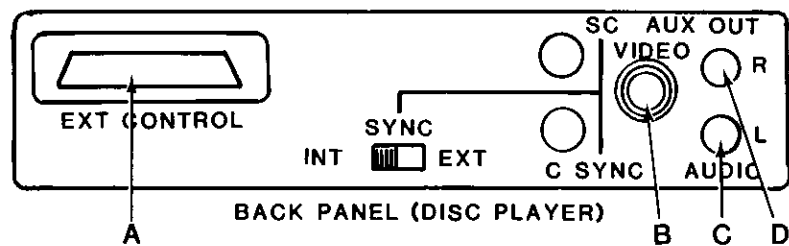
Bally MIDWAY
GALAXY RANGER
MOSI-00A36-A003
 10601 W. BELMONT
 FRANKLIN PARK, ILL. 60131

NOTES:
 * - 15AWG WIRE
 • - SOLDER JOINTS
 ▲ - 16AWG / 600V WIRE

BALLY/MIDWAY'S GALAXY RANGER
U.R. #A36
ROM/EPROM PART NUMBERS AND COMPATABILITY

| HITACHI SYSTEM EPROM BOARD LOCATION | PIONEER SYSTEM LOGIC BOARD LOCATION | MIDWAY PART NUMBER |
|--|--|-----------------------|
| IC 1 | NOT USED | 0A36-00803-0001 |
| IC 2 | NOT USED | 0A36-00803-0002 |
| IC 3 | IC 18 | 0A36-00803-0003 |
| IC 4 | IC 29 | 0A36-00803-0004 |
| IC 7 | IC 7 | 0A36-00803-0005 |
| IC 8 | IC 8 | 0A36-00803-0006 |
| IC 9 | IC 15 | 0A36-00803-0007 |
| IC 10 | IC 14 | 0A36-00803-0008 |
| NOT USED | IC 3 | 0A36-00803-0012 |
| NOT USED | IC 10 | 0A36-00803-0013 |
| IC 11 | IC 52 | 0A36-00803-0009 |
| IC 12 | IC 68 | 0A36-00803-0010 |

CONNECTION TO VIDEO DISC PLAYER



AMPLIFIER AND SPEAKERS (2) NOT SHOWN