
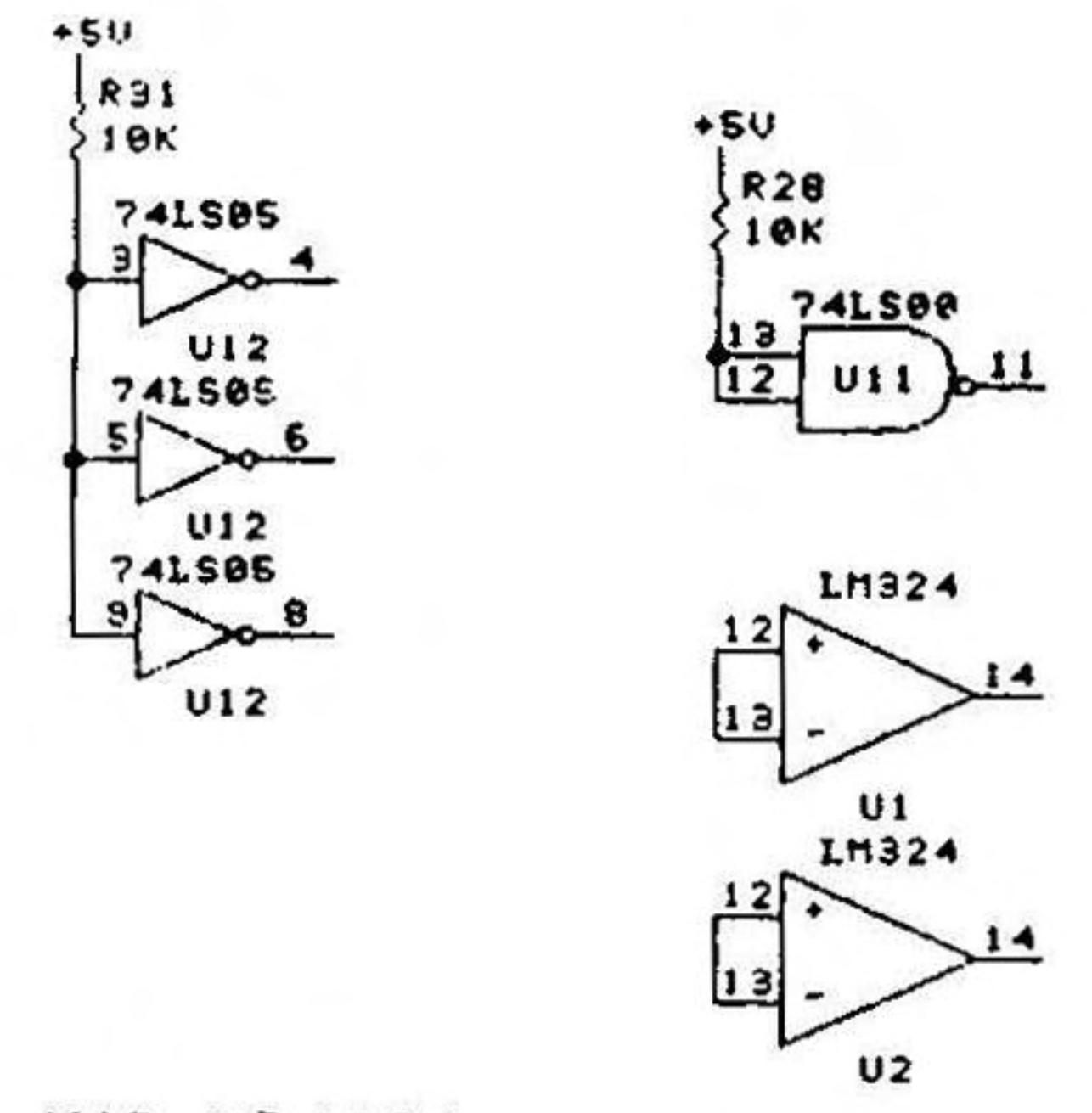


| | | | |
|----------------------|----------|---------------|---|
| ANDROBOT, INC. | | |  |
| TITLE | | | |
| TOPO BATTERY MONITOR | | | |
| SIZE | CODE | NUMBER | REV |
| B | | 11-010175-001 | A |
| DATE | 10/10/93 | SHEET 2 OF 2 | |

| REVISIONS | | | | |
|-----------|-----|------------------|----------|------|
| ZONE | LTC | DESCRIPTION | DATE | APUD |
| | A | REV. 11/11/83 | 11/11/83 | L.M. |
| | P | REVISION ENGR003 | 4/5/84 | J |

| IC TABLE | | | | | | | |
|----------|----------------|-----|-----|-----|-----|-----|-----|
| IC TYPE | REF DESIGNATOR | QTY | +5V | 8ND | -5V | +12 | +24 |
| 8031 | UR | 1 | 40 | 20 | | | |
| 2764 | U9 | 1 | 28 | 14 | | | |
| 6116 | U7 | 1 | 24 | 12 | | | |
| 4013 | U6 | 1 | 14 | 07 | | | |
| 4071 | U4, U10 | 2 | 14 | 07 | | | |
| 4584 | U3 | 1 | 14 | 07 | | | |
| 74LS00 | U11 | 1 | 14 | 07 | | | |
| 74LS05 | U12 | 1 | 14 | 07 | | | |
| 74LS373 | U5 | 1 | 20 | 10 | | | |
| LM324 | U1, U2 | 2 | 04 | 11 | | | |
| LM7805 | UR1 | 1 | 03 | 02 | | 01 | |
| SG3635 | Q1, Q2, Q3, Q4 | 4 | | | | | 01 |

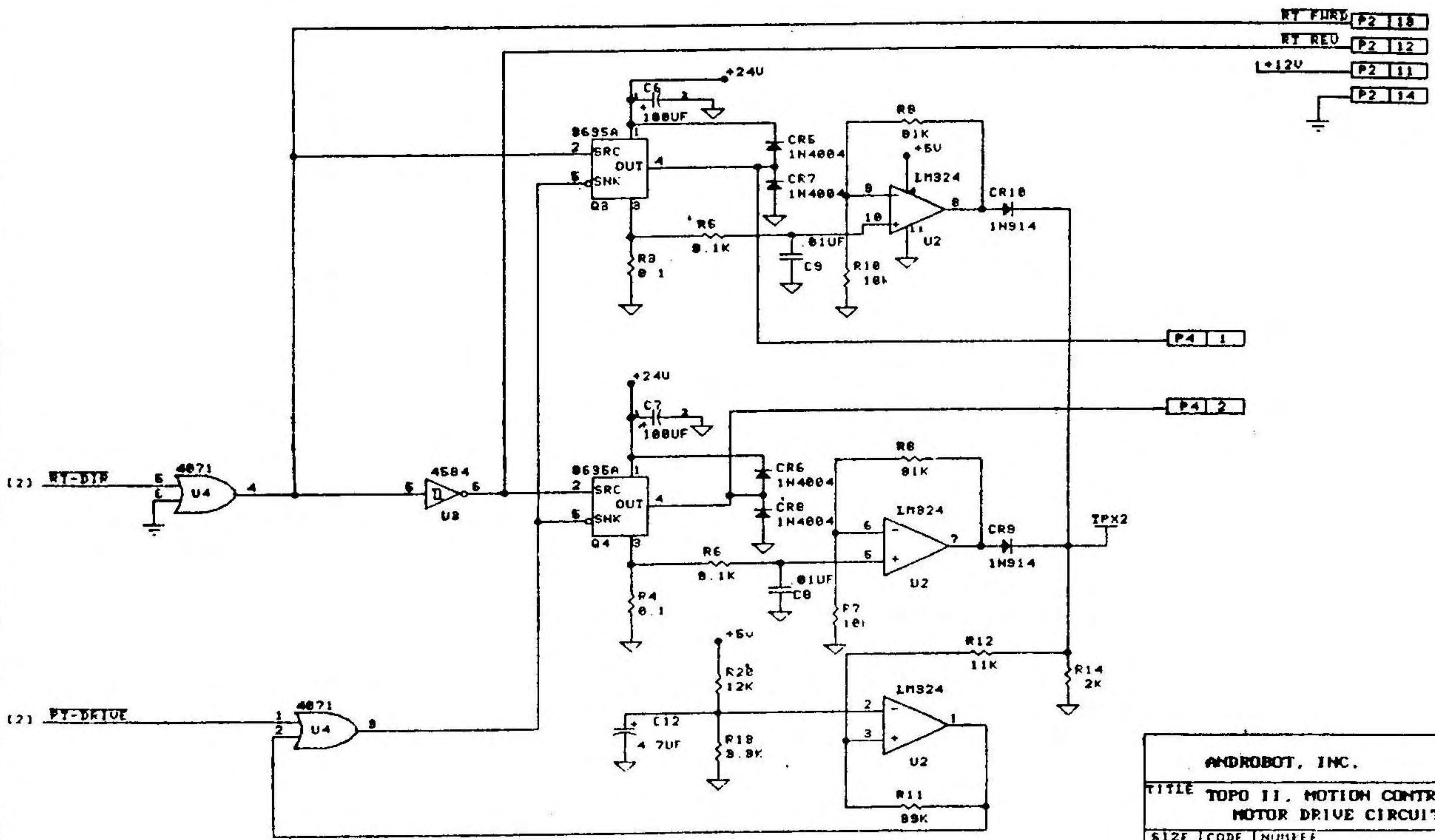


MAR 28 1984

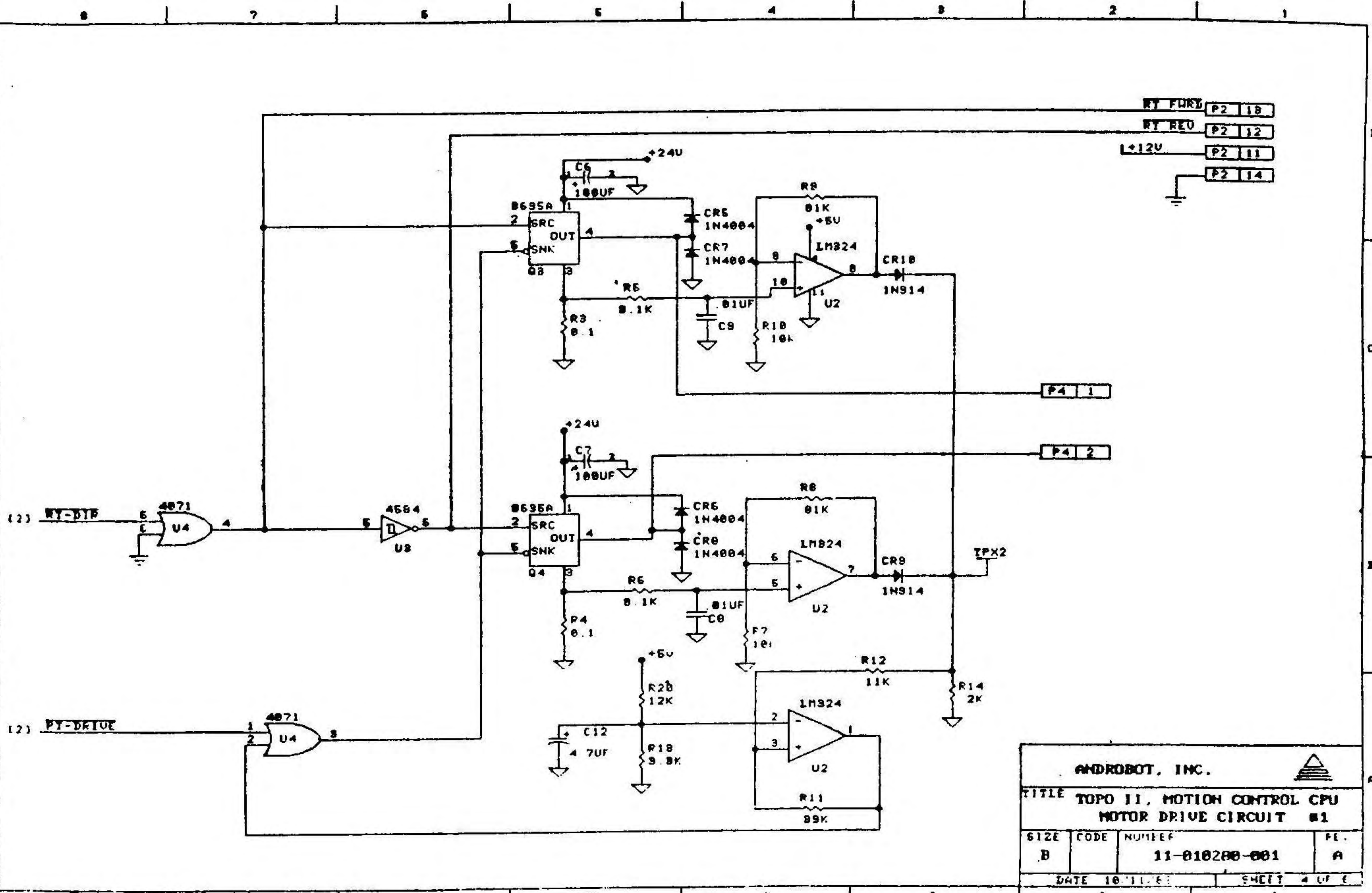
PRE-PRODUCTION RELEASE

NOTE
 1 ALL BYPASS CAPACITORS ARE .1UF IN VALUE.
 2 DESIGNATORS FOR CAPS ARE C14 THRU C23.

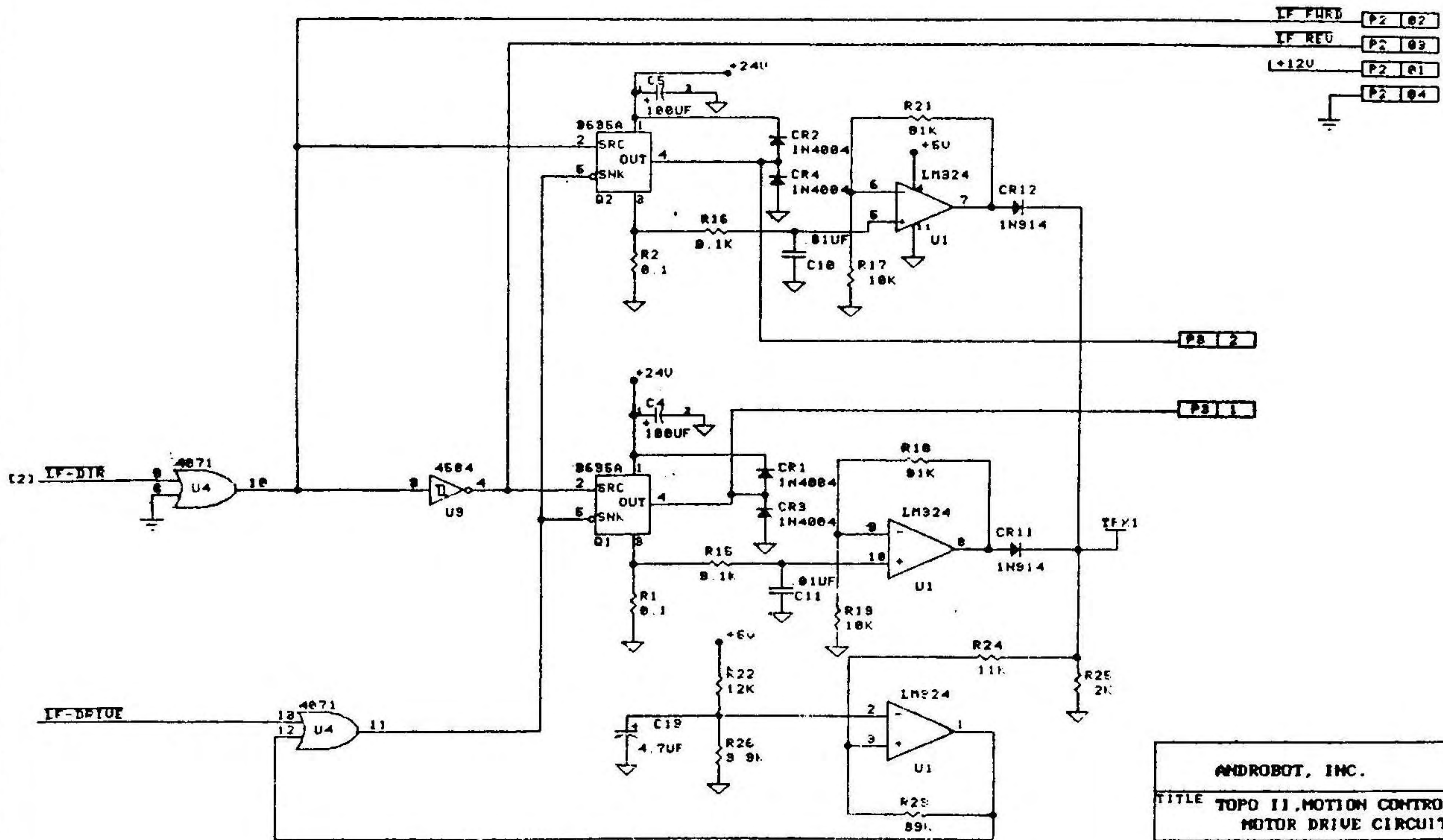
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|--|------|---------------|-----|
| DATE | 02/8 | | |
| DWN | JY | | |
| APUD | | | |
| ENGR | | | |
| CHKR | | | |
| ANDROBOT, INC. | | | |
| TITLE TOPD 11, MOTION CONTROL CPU COVER SHEET | | | |
| SIZE | CODE | NUMBER | REV |
| B | | 11-010200-001 | B |
| SHEET 1 OF 6 | | | |



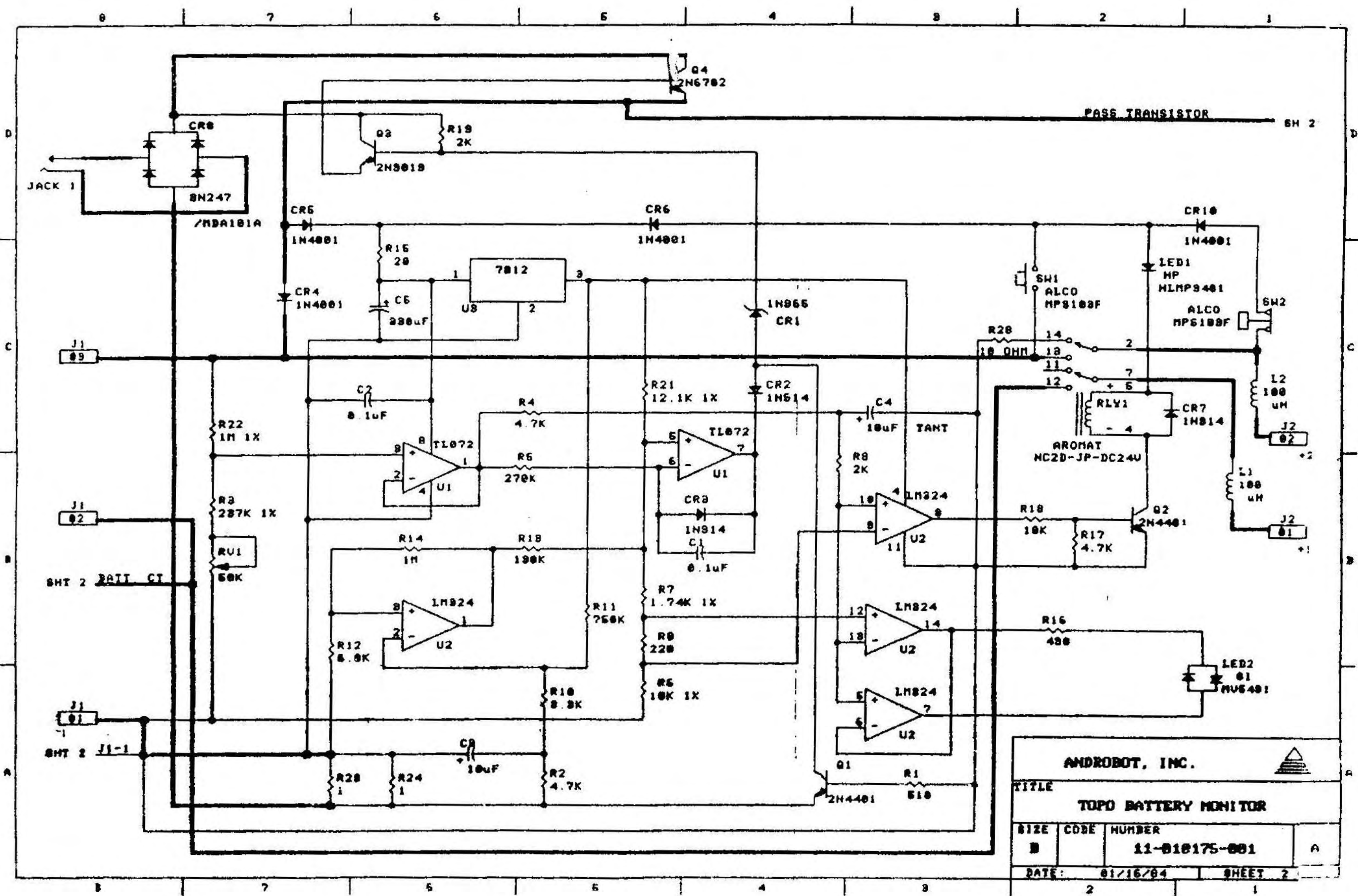
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|---|------|---------------|-----|
| ANDROBOT, INC. | | | |
| TITLE TOPO 11, MOTION CONTROL CPU MOTOR DRIVE CIRCUIT #1 | | | |
| SIZE | CODE | NUMBER | FE. |
| B | | 11-010200-001 | A |
| DATE 10.11.63 | | SHEET 4 OF 4 | |



| | | | |
|---|------|---------------|------|
| ANDROBOT, INC. | | | |
| TITLE TOPO 11, MOTION CONTROL CPU MOTOR DRIVE CIRCUIT #1 | | | |
| SIZE | CODE | NUMBER | REV. |
| B | | 11-010200-001 | A |
| DATE 10-11-63 | | SHEET 4 OF 5 | |



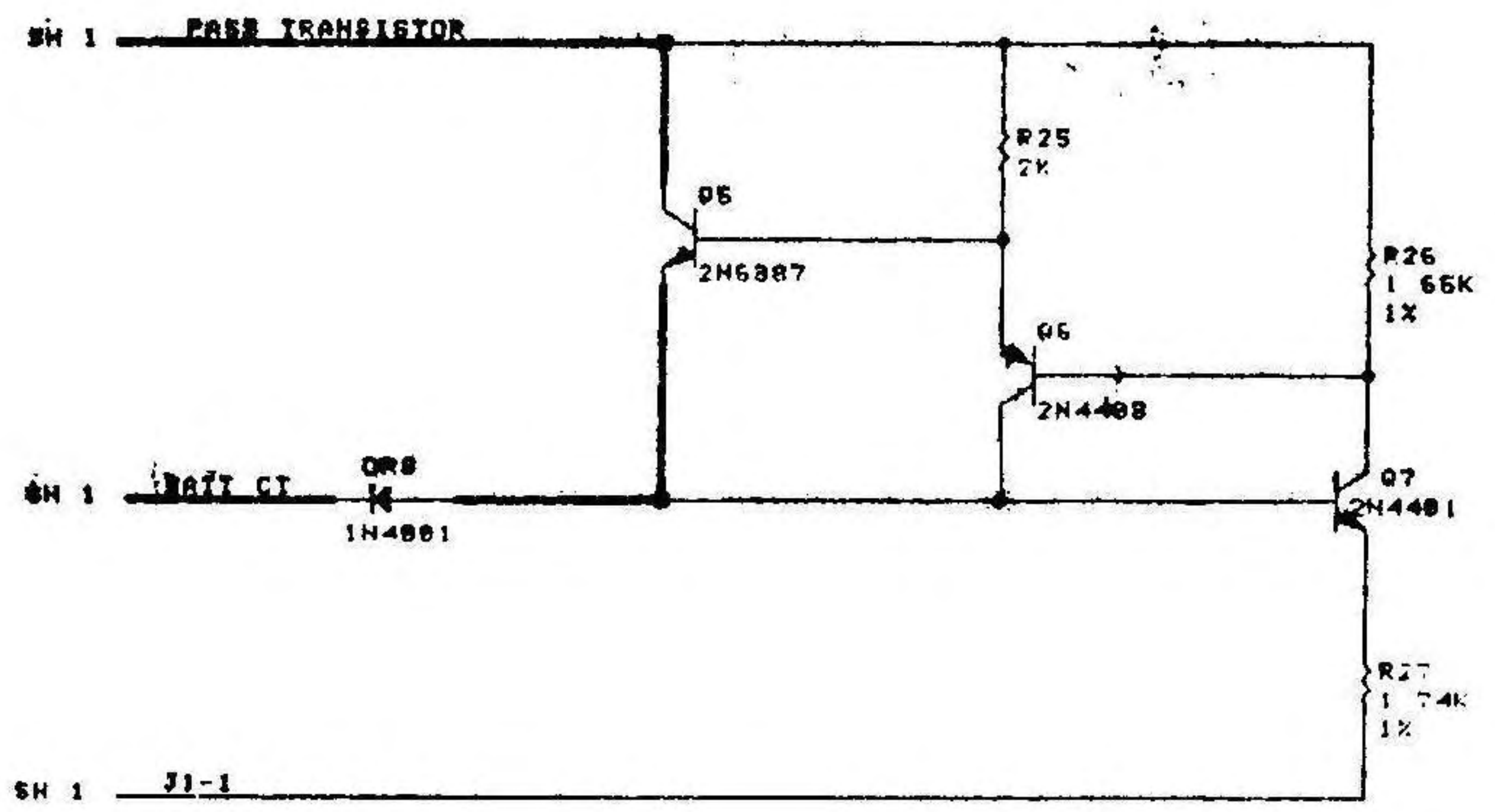
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| ANDROBOT, INC. | | | |
| TITLE TOPD 11, MOTION CONTROL CPU MOTOR DRIVE CIRCUIT #2 | | | |
| SIZE | CODE | NUMBER | REV. |
| B | | 11-016288-001 | A |
| DATE 10/11/88 | | | SHEET 5 OF 6 |




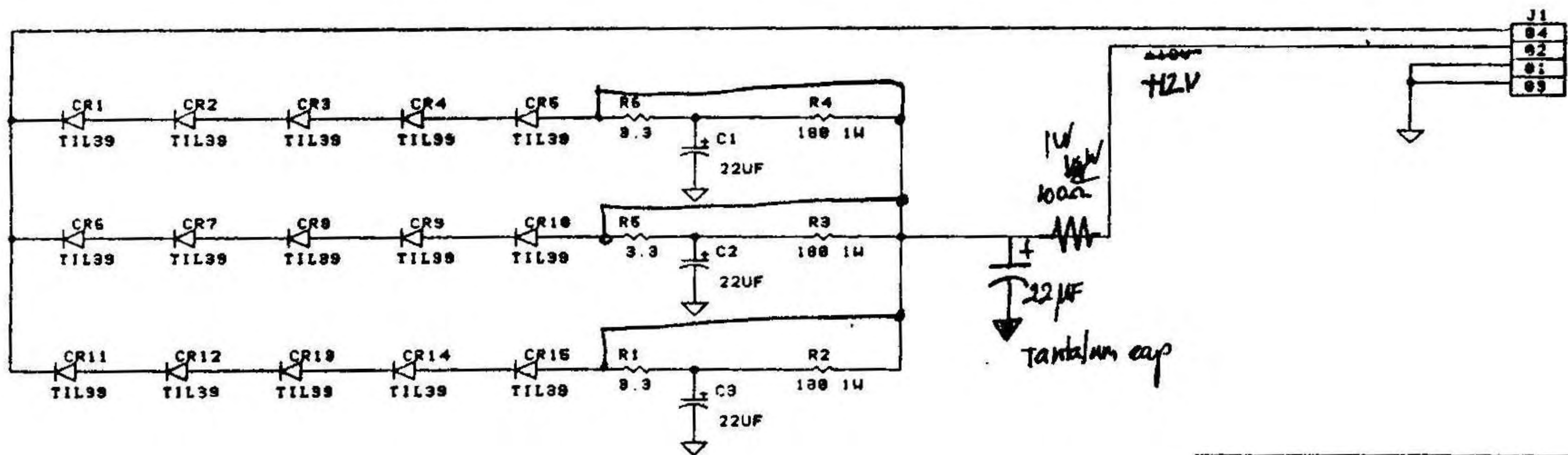
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| ANDROBOT, INC. | | | |
| TITLE | | | |
| TOPO BATTERY MONITOR | | | |
| SIZE | CODE | NUMBER | |
| B | | 11-010175-001 | |
| DATE: | | 01/16/84 | SHEET 2 |


PRE PRODUCTION RELEASE MAR 28 1984

| REVISIONS | | | | |
|-----------|----|-------------|------|------|
| ZONE | LT | DESCRIPTION | DATE | APUD |
| | | | | |



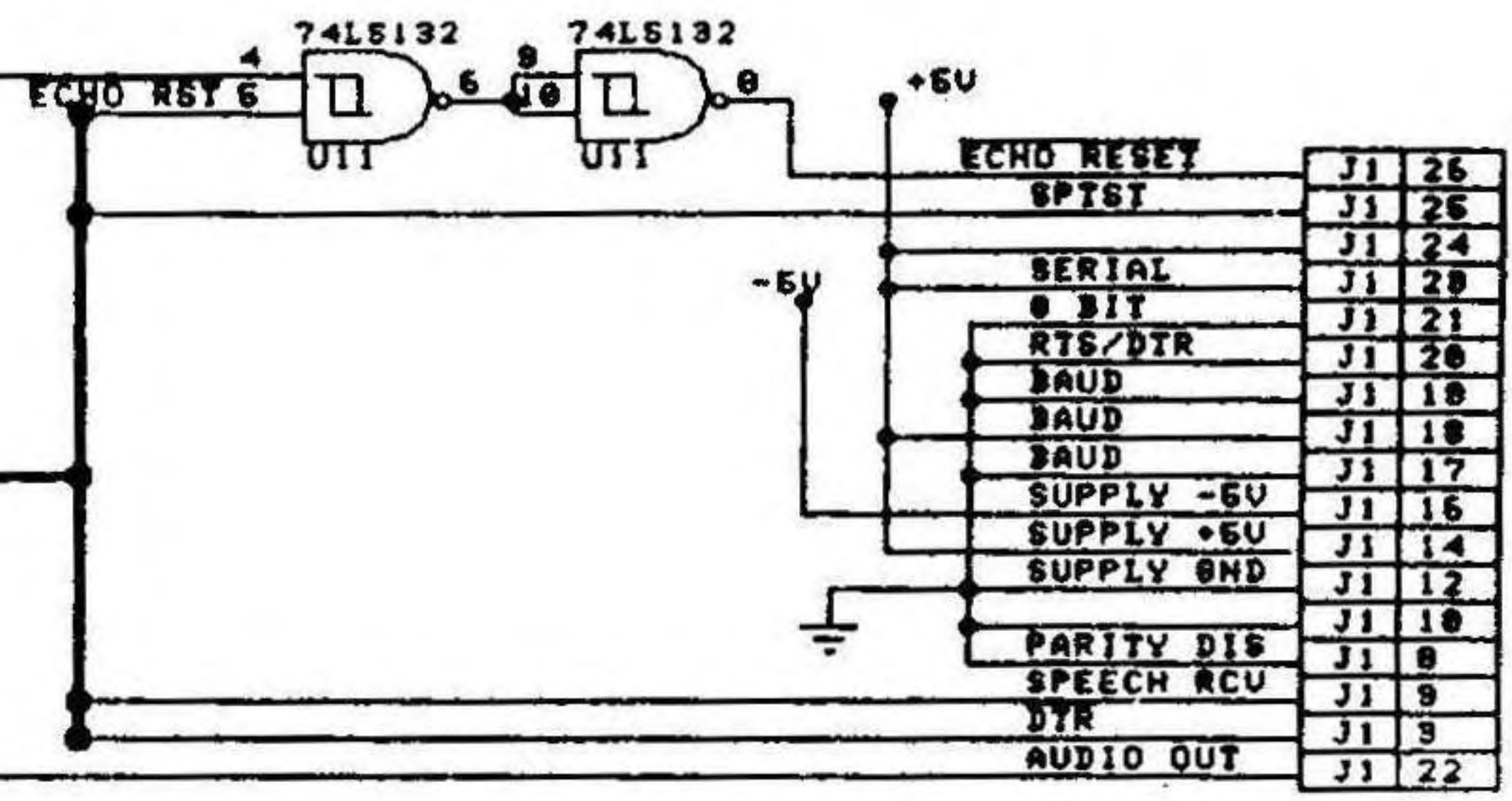
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|-------|----------|-----------------------|---|
| DATE | 12/05/82 | ANDROBOT, INC. |  |
| DRN | J. YOUNG | | |
| APUD | | | |
| ENGR | | | |
| CHK | | | |
| TITLE | | TOPIC BATTERY MONITOR | |
| REV | | 11-01010-001 | |
| REV | | D | |



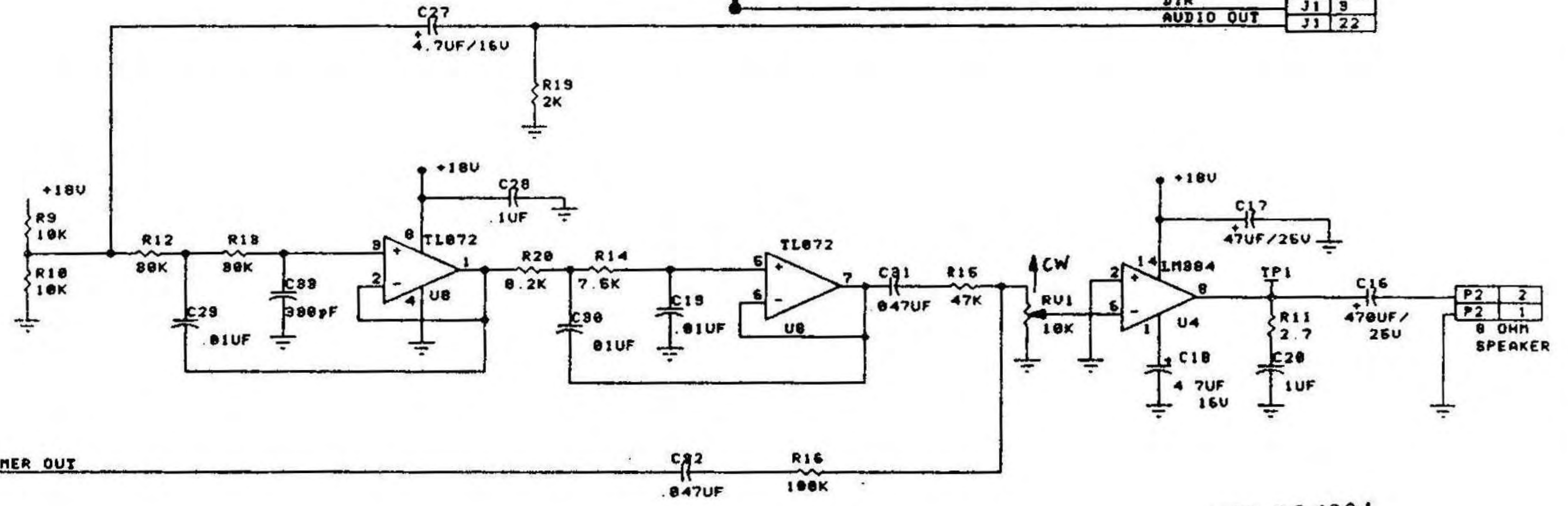
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|--|------|-------------------------|----------|
| ANDROBOT, INC.  | | | |
| TITLE MOBILE TRANSCIVER SENSOR | | | |
| SIZE B | CODE | NUMBER 11-010369-001 | REV A |
| DATE: 10/10/83 | | SHEET 1 OF 1 | |

[6] TEST RESEY

[2] CONTROL BUS



| | | |
|------------|----|----|
| ECHO RESEY | J1 | 26 |
| SPTST | J1 | 25 |
| SERIAL | J1 | 24 |
| 0 BIT | J1 | 23 |
| RTS/DTR | J1 | 22 |
| BAUD | J1 | 21 |
| BAUD | J1 | 20 |
| BAUD | J1 | 19 |
| SUPPLY -5V | J1 | 18 |
| SUPPLY +5V | J1 | 17 |
| SUPPLY 0ND | J1 | 16 |
| | J1 | 15 |
| PARITY DIS | J1 | 14 |
| SPEECH RCU | J1 | 13 |
| DTR | J1 | 12 |
| AUDIO OUT | J1 | 11 |

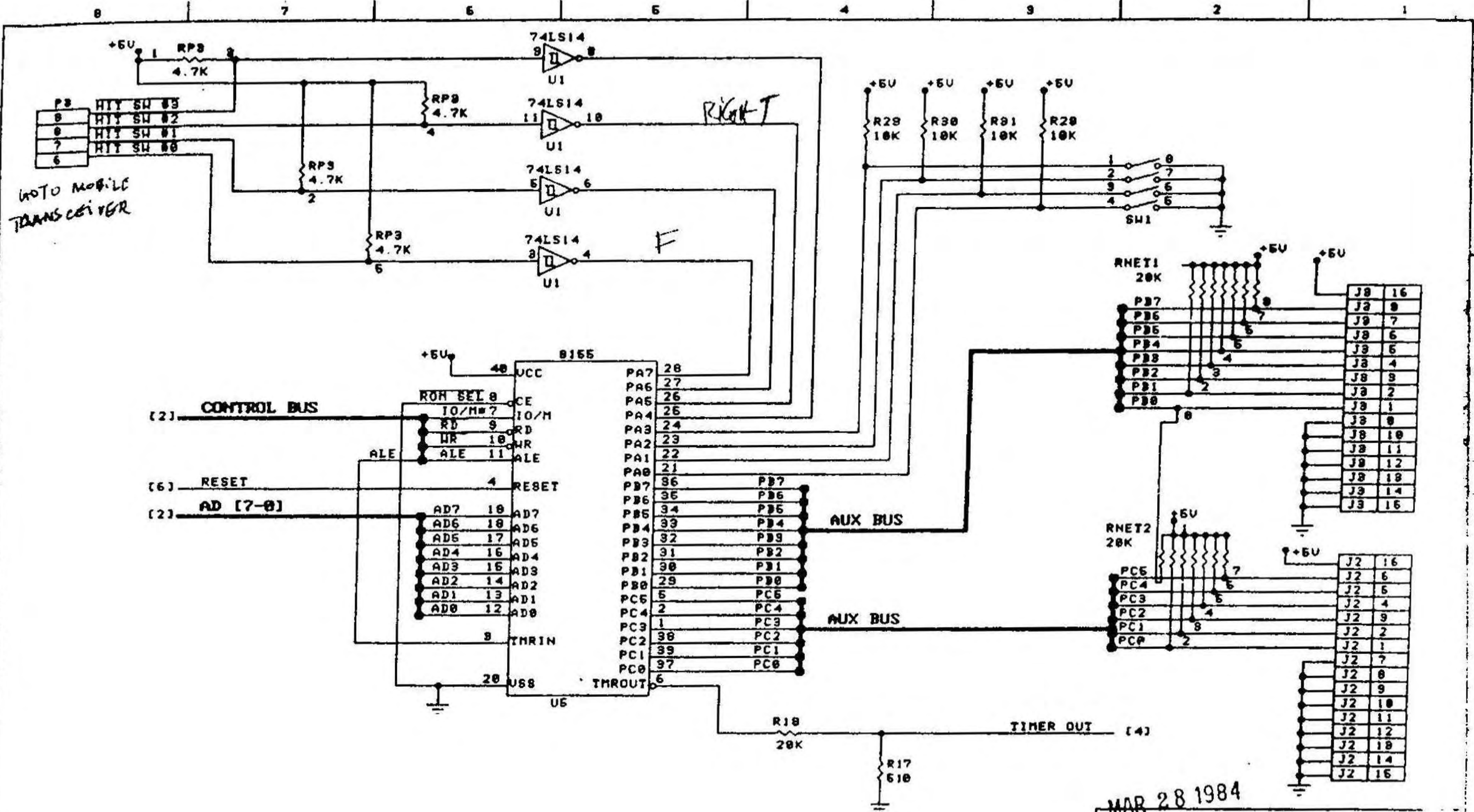


[8] TIMER OUT

PRE-PRODUCTION RELEASE

MAR 28 1984

| | | | |
|---|------|---------------|-----|
| ANDROBOT, INC. | | | |
| TITLE TOPO II COMMUNICATION BD ECHO SPEECH MODULE INTERFACE | | | |
| SIZE | CODE | NUMBER | REV |
| B | | 11-010201-001 | A |
| DATE 12/20/83 | | SHEET 4 OF 1 | |



GOTO MOBILE
TRANSMITTER

RIGHT

F

PRE-PRODUCTION RELEASE

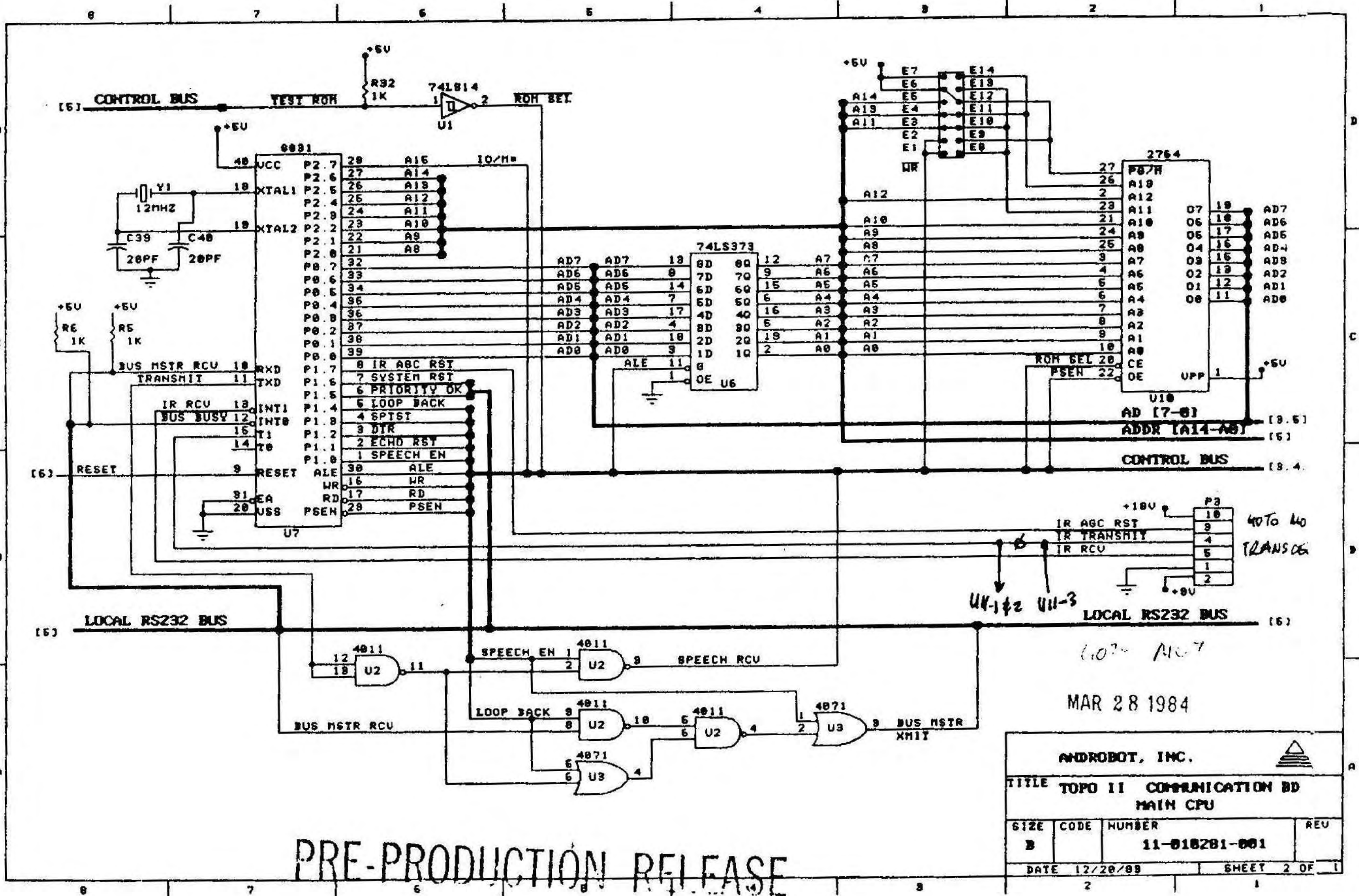
MAR 28 1984

ANDROBOT, INC.

TITLE TOPO II COMMUNICATION BD
PIA INTERFACE HARDWARE

| | | |
|------|------|---------------|
| SIZE | CODE | NUMBER |
| B | | 11-010281-001 |

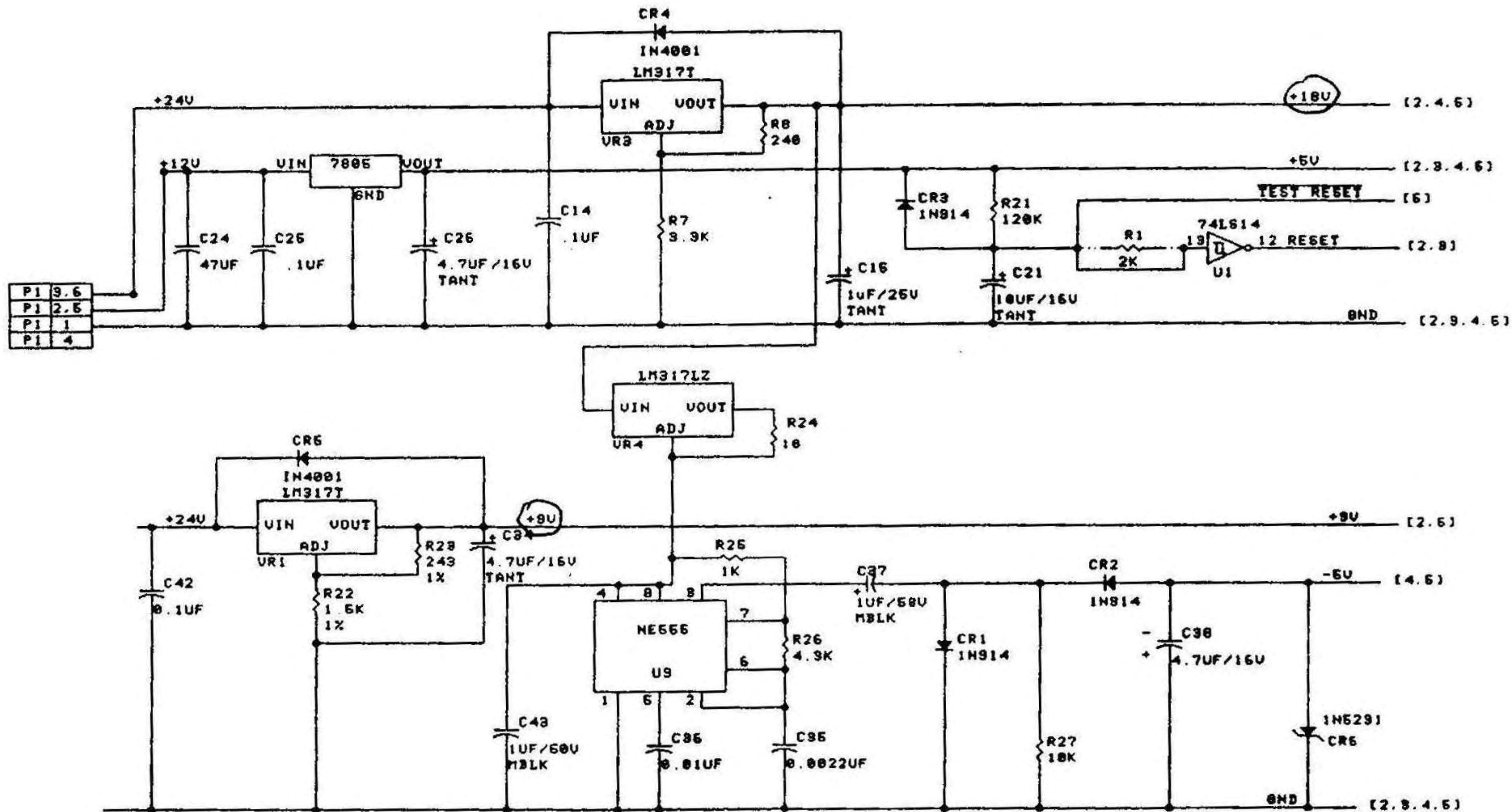
| | | | |
|------|----------|-------|-----|
| DATE | 12/20/83 | SHEET | 8 0 |
|------|----------|-------|-----|



PRE-PRODUCTION RELEASE

MAR 28 1984

| | | | |
|--|------|---------------|-----|
| ANDROBOT, INC. | | | |
| TITLE TOPO II COMMUNICATION BD MAIN CPU | | | |
| SIZE | CODE | NUMBER | REV |
| B | | 11-010281-001 | |
| DATE 12/20/83 | | SHEET 2 OF 1 | |



NOTES

- IF R1 IS INSTALLED THEN THE TRACE ON CIRCUIT SIDE OF BOARD MUST BE CUT BETWEEN SOLDER PADS OF R1 (SEE NOTE ON ASSEMBLY DWG. FOR EXACT PLACE OF CUT)

MAR 28 1984

ANDROBOT, INC.

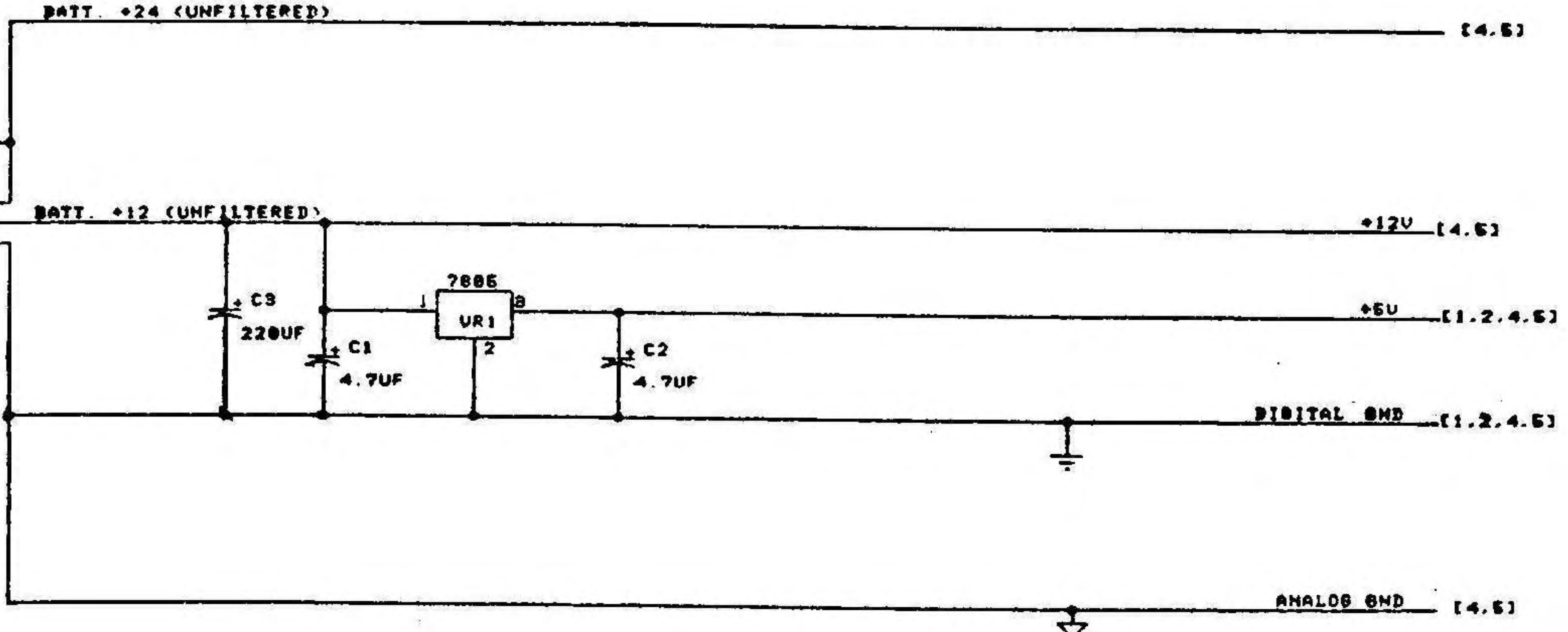



TITLE **TOPO II COMMUNICATION BI
POWER SUPPLY & RESET**

| | | | |
|------------------|------|--------------------------------|-----|
| SIZE B | CODE | NUMBER 11-010201-001 | REV |
|------------------|------|--------------------------------|-----|

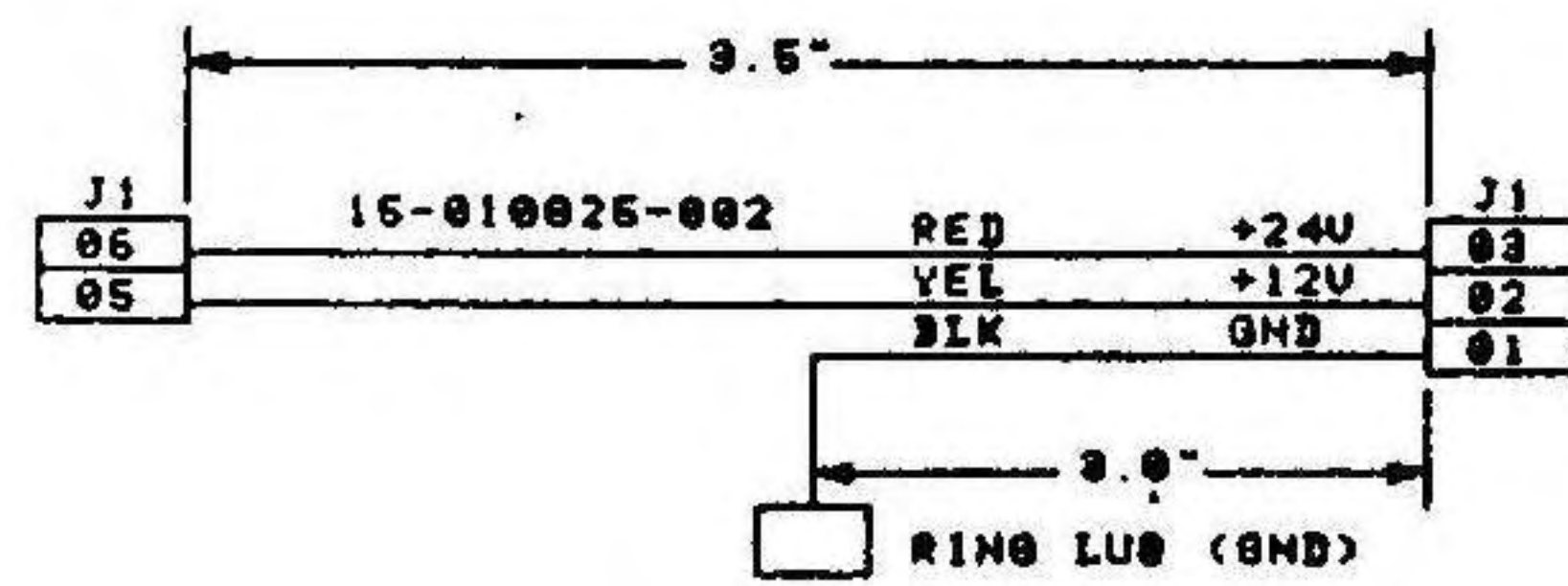
| | |
|-------------------------|------------------------|
| DATE 12/20/89 | SHEET 6 OF 1 |
|-------------------------|------------------------|


| | |
|----|---|
| P1 | 6 |
| P1 | 5 |
| P1 | 4 |
| F1 | 8 |
| P1 | 2 |
| F1 | 1 |

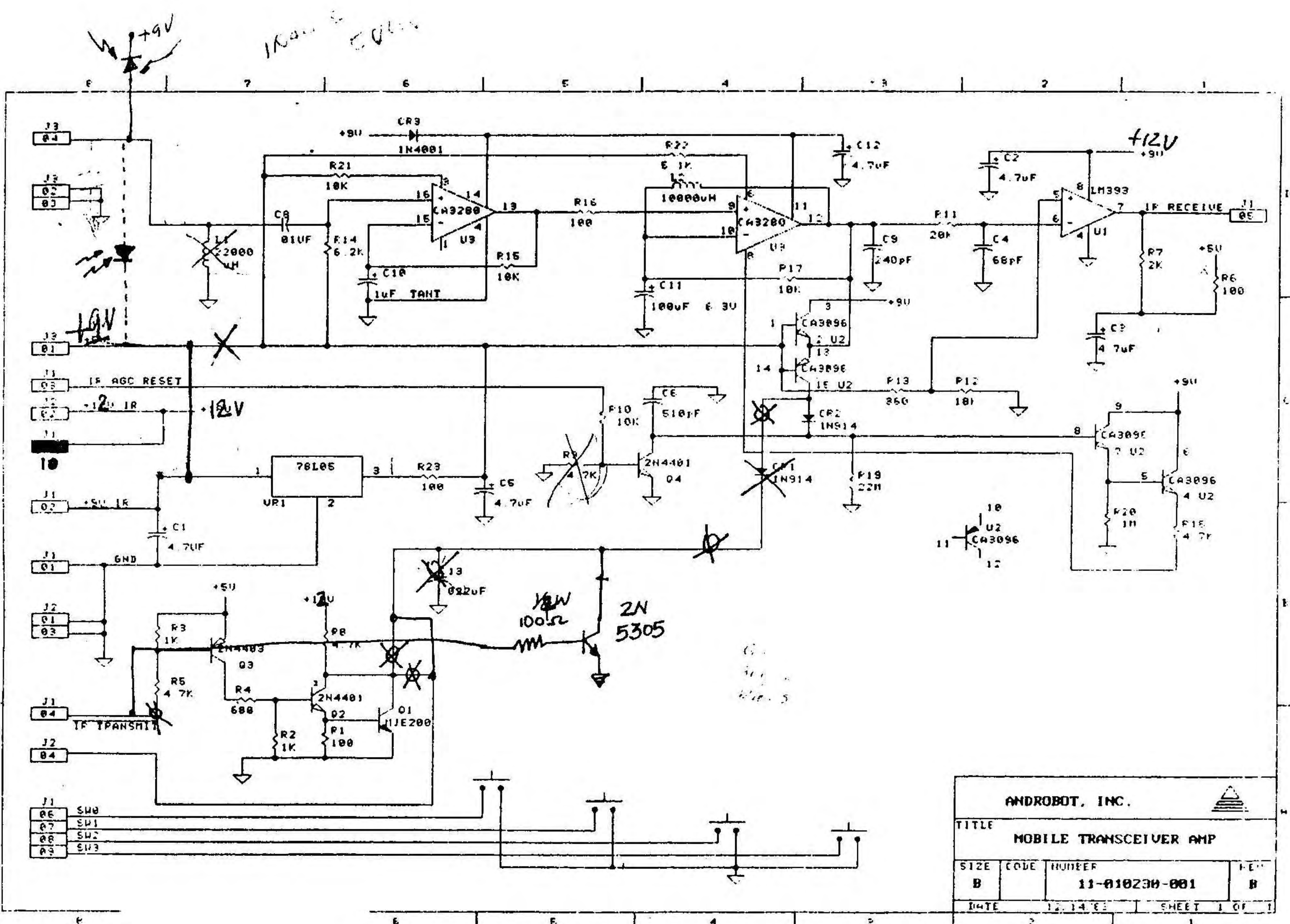


| | | | |
|---|----------|---------------|---|
| ANDROBOT, INC. | | |  |
| TITLE TOPO 11, MOTION CONTROL CPU POWER SUPPLY | | | |
| SIZE | CODE | NUMBER | REV. |
| B | | 11-010200-001 | A |
| DATE | 10/11/93 | SHEET | 1 OF 1 |

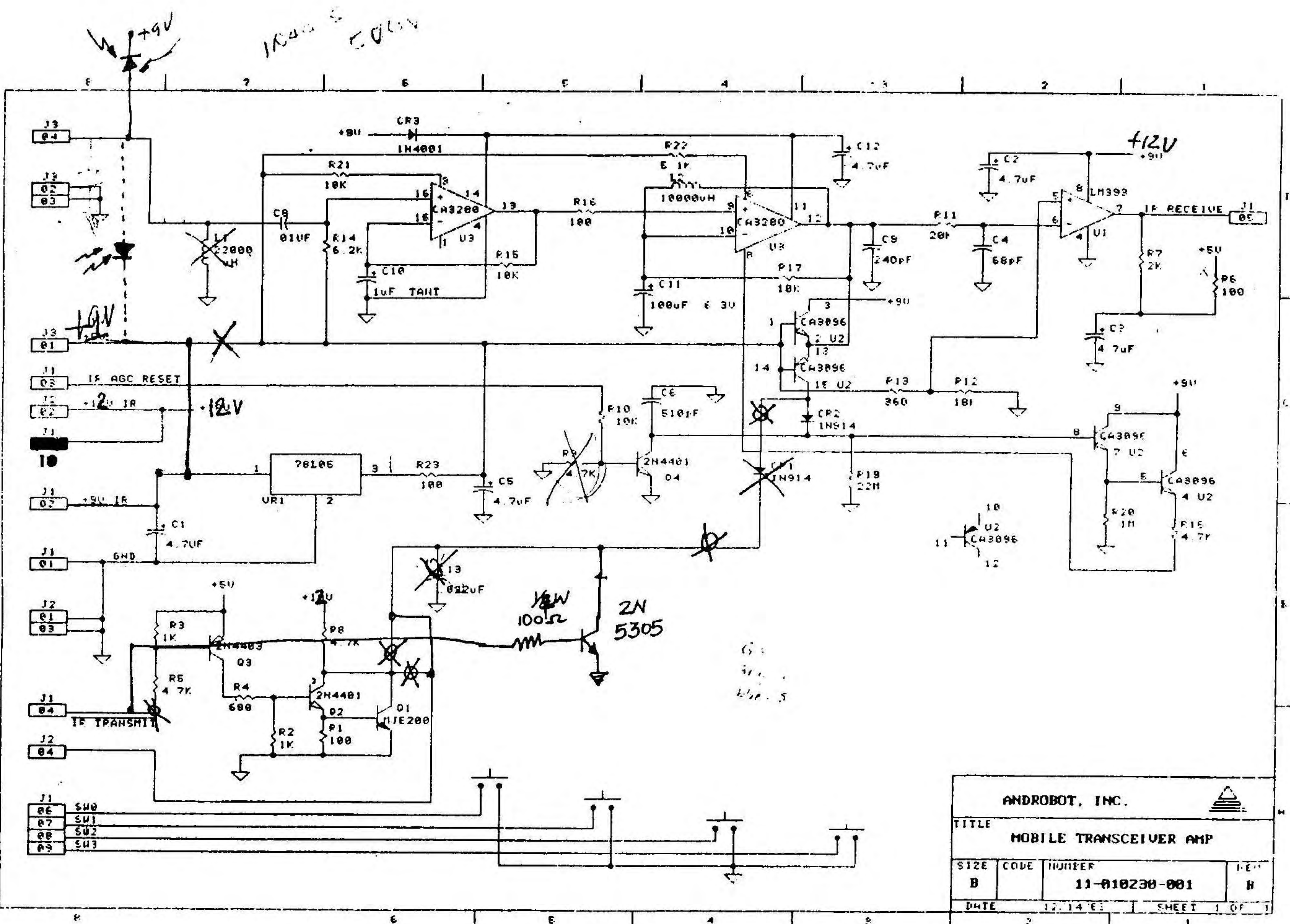
| REVISIONS | | | | |
|-----------|-----|-------------|------|------|
| ZONE | LTR | DESCRIPTION | DATE | APUD |
| | | | | |



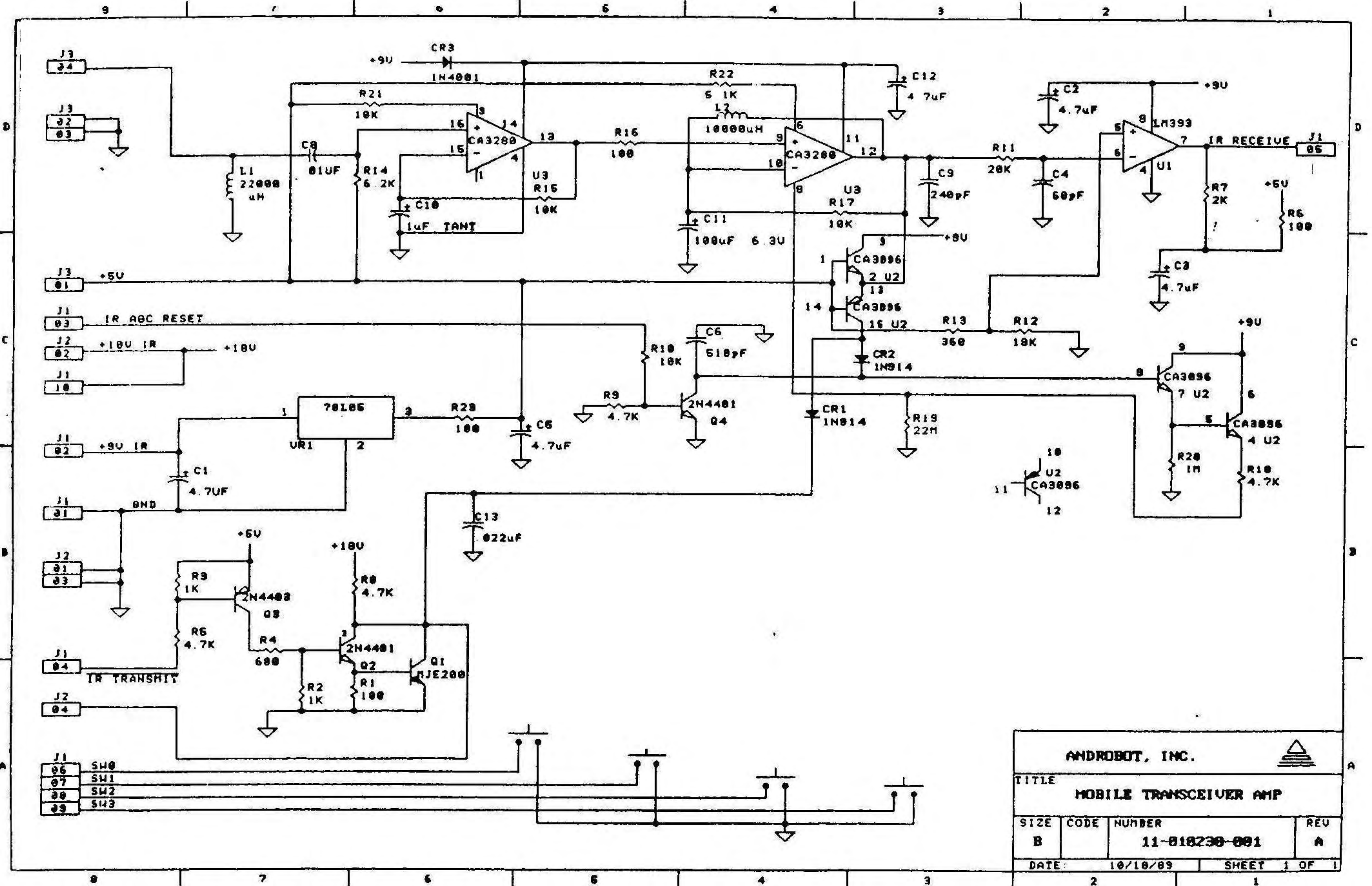
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|-------|-------------|------|---------------|--|
| DATE | 10/20/89 | | | ANDROBOT, INC.  |
| DWN | I. SAKAMOTO | | | |
| APUD | | | | TITLE |
| APUD | | | | |
| ENGRG | | | | |
| CHKR | | | | |
| | SIZE | CODE | NUMBER | REV |
| | B | | 15-010025-002 | A |
| | | | | SHEET 2 OF 2 |



| | | | |
|---------------------------------|------|-------------------------|----------|
| ANDROBOT, INC. | | | |
| TITLE MOBILE TRANSCIEVER AMP | | | |
| SIZE B | CODE | NUMBER 11-010230-001 | REV B |
| DATE 12.14.83 | | SHEET 1 OF 1 | |



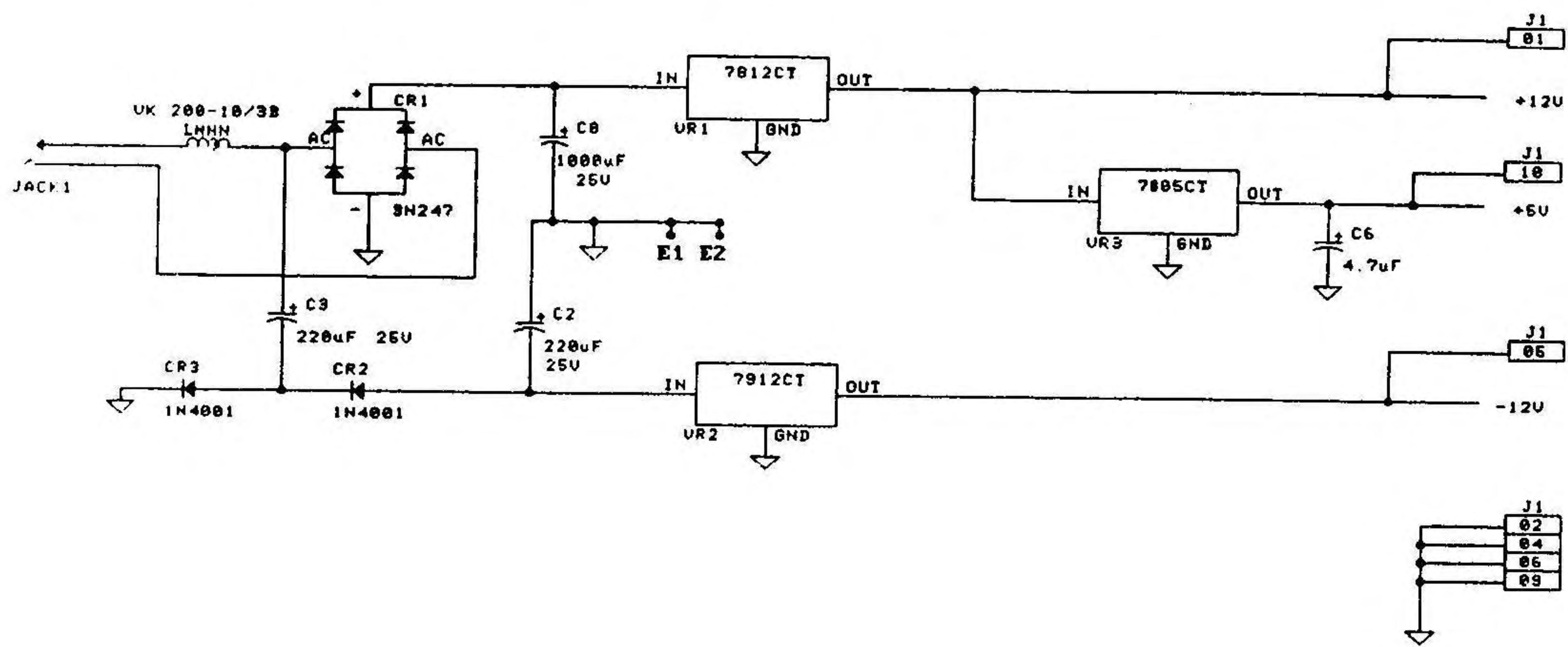
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|---------------------------------|------|-------------------------|----------|
| ANDROBOT, INC. | | | |
| TITLE MOBILE TRANSCEIVER AMP | | | |
| SIZE B | CODE | NUMBER 11-010230-001 | REV B |
| DATE 12.14.83 | | SHEET 1 OF 1 | |




- J3 04
- J3 02
- J3 03
- J3 01
- J1 03 IR AGC RESET
- J2 02 +18V IR
- J1 10
- J1 02 +9V IR
- J1 01 GND
- J2 01
- J2 03
- J1 04 IR TRANSMIT
- J2 04
- J1 06 SW0
- J1 07 SW1
- J1 08 SW2
- J1 09 SW3

| | | | |
|---------------------------------|------|---------------|-----|
| ANDROBOT, INC. | | | |
| TITLE MOBILE TRANSCEIVER AMP | | | |
| SIZE | CODE | NUMBER | REV |
| B | | 11-818238-001 | A |
| DATE: 10/10/89 | | SHEET 1 OF 1 | |

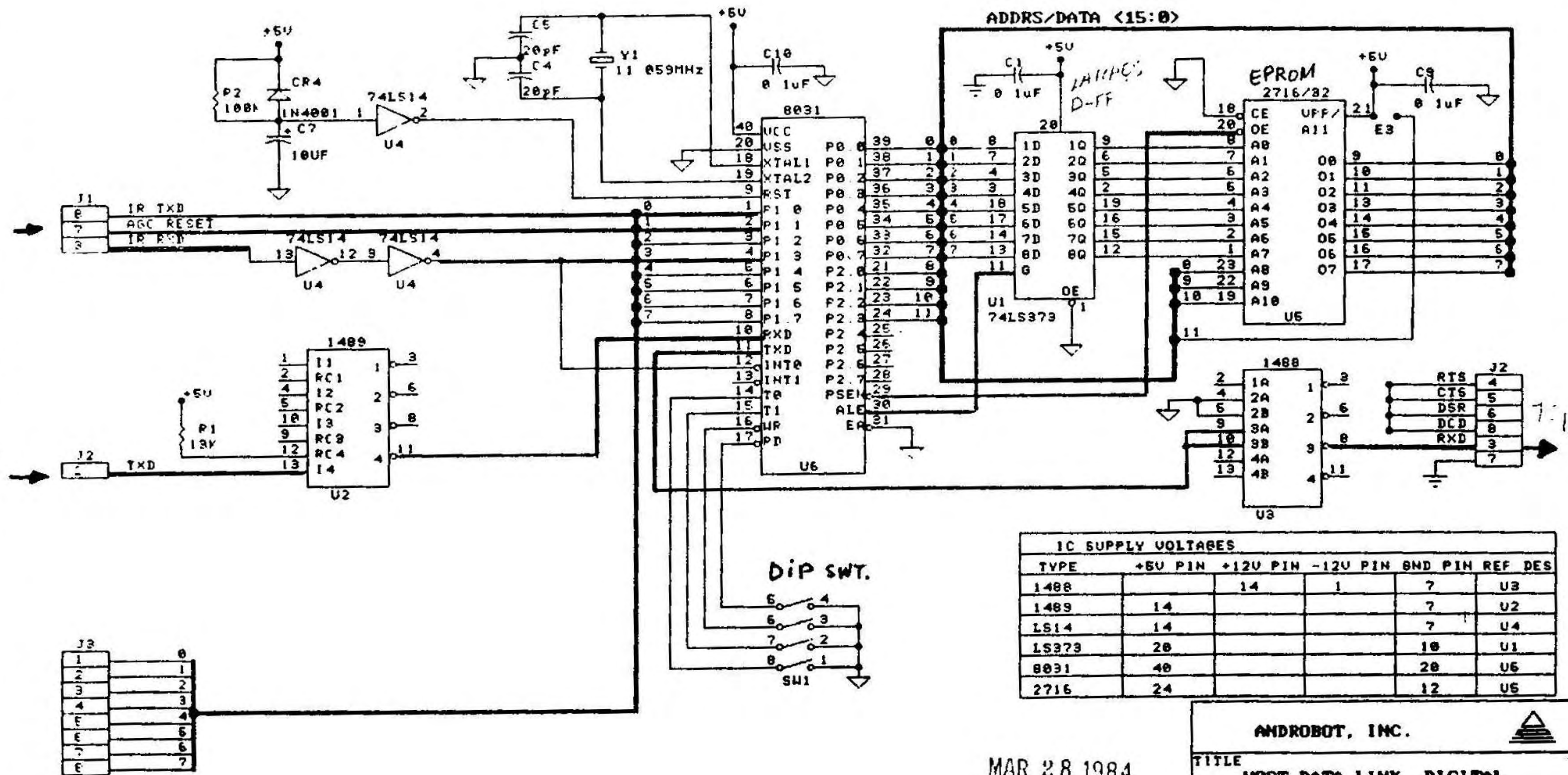
| LTR | DESCRIPTION | DATE | APPUL |
|-----|---------------------------------------|----------|----------|
| A | PRE-PROD REL. ECO 00020 | 10-26-83 | LH |
| B | REVISE PER ECO 00030. SMT 2. ZONE B12 | 11-02-83 | LH |
| C | RELOCATE 9 PIN CONN. ECO 00036 | 11-09-83 | LH |
| D | PEU SMT 7. ECO 00054 | 11-30-83 | J. YOUNG |
| E | REVISED PER ECO 00092 | 1-30-84 | JY |



PRE-PRODUCTION RELEASE
MAR 28 1984

| | | | |
|----------------|--|---------------------|-----------------------|
| DATE: 11-03-83 | ANDROBOT, INC.  | | |
| DWN: J.K | TITLE: MOST DATA LINK DIGITAL | | |
| CHK: J. YOUNG | SIZE: B | CODE: 11-010233-001 | NUMBER: 11-010233-001 |
| APPUL: | DOC: L. HANDBOR | DATE: 11/29/83 | REV: E |
| CONT: | | SHEET: 1 OF 2 | |

PRE-PRODUCTION RELEASE



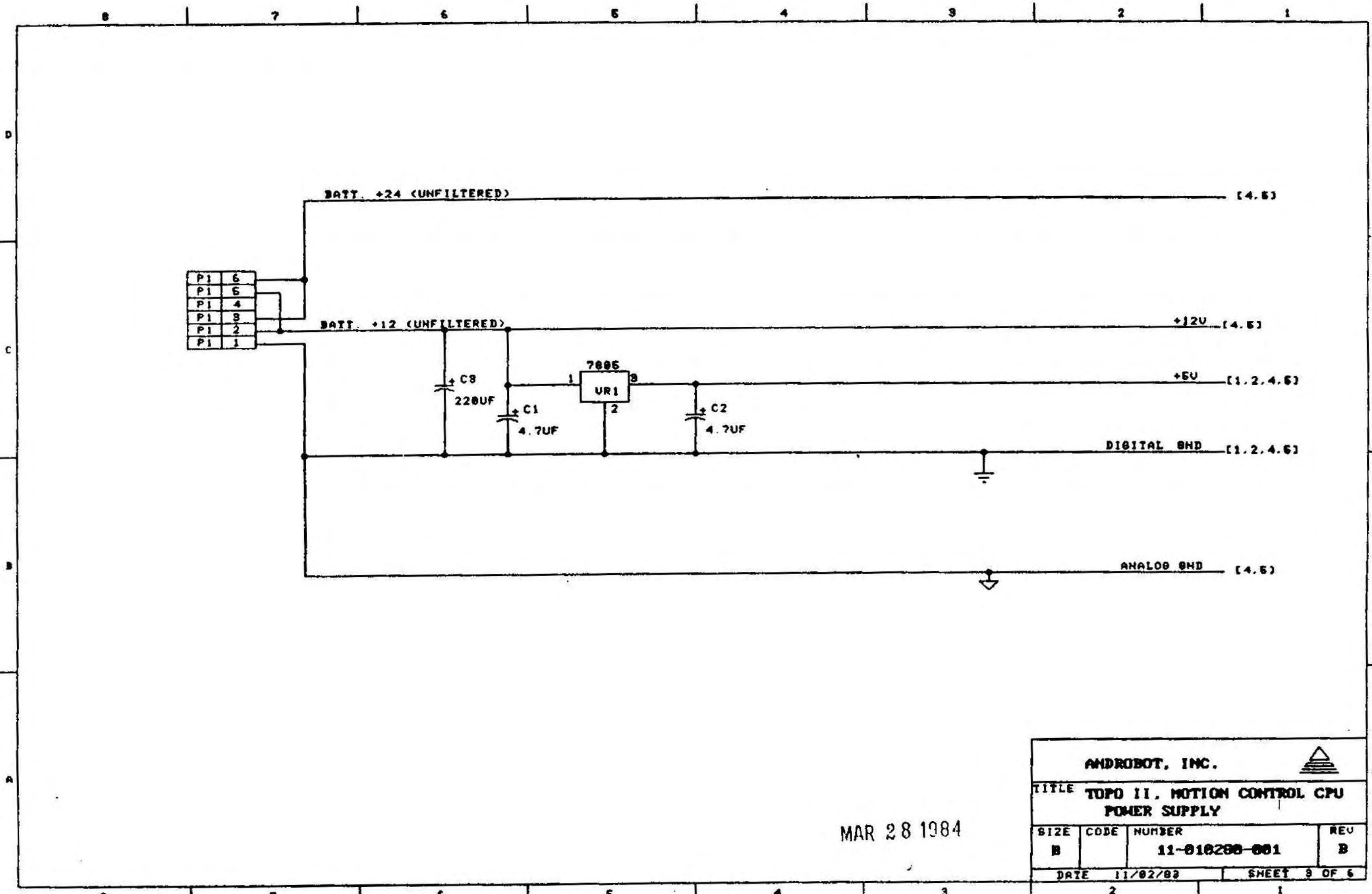
| IC SUPPLY VOLTAGES | | | | | |
|--------------------|---------|----------|----------|---------|---------|
| TYPE | +5V PIN | +12V PIN | -12V PIN | 0ND PIN | REF DES |
| 1488 | | 14 | 1 | 7 | U3 |
| 1489 | 14 | | | 7 | U2 |
| LS14 | 14 | | | 7 | U4 |
| LS373 | 28 | | | 18 | U1 |
| 8031 | 40 | | | 28 | U6 |
| 2716 | 24 | | | 12 | U5 |

MAR 28 1984


ANDROBOT, INC.

TITLE: **HOST DATA LINK DIGITAL**

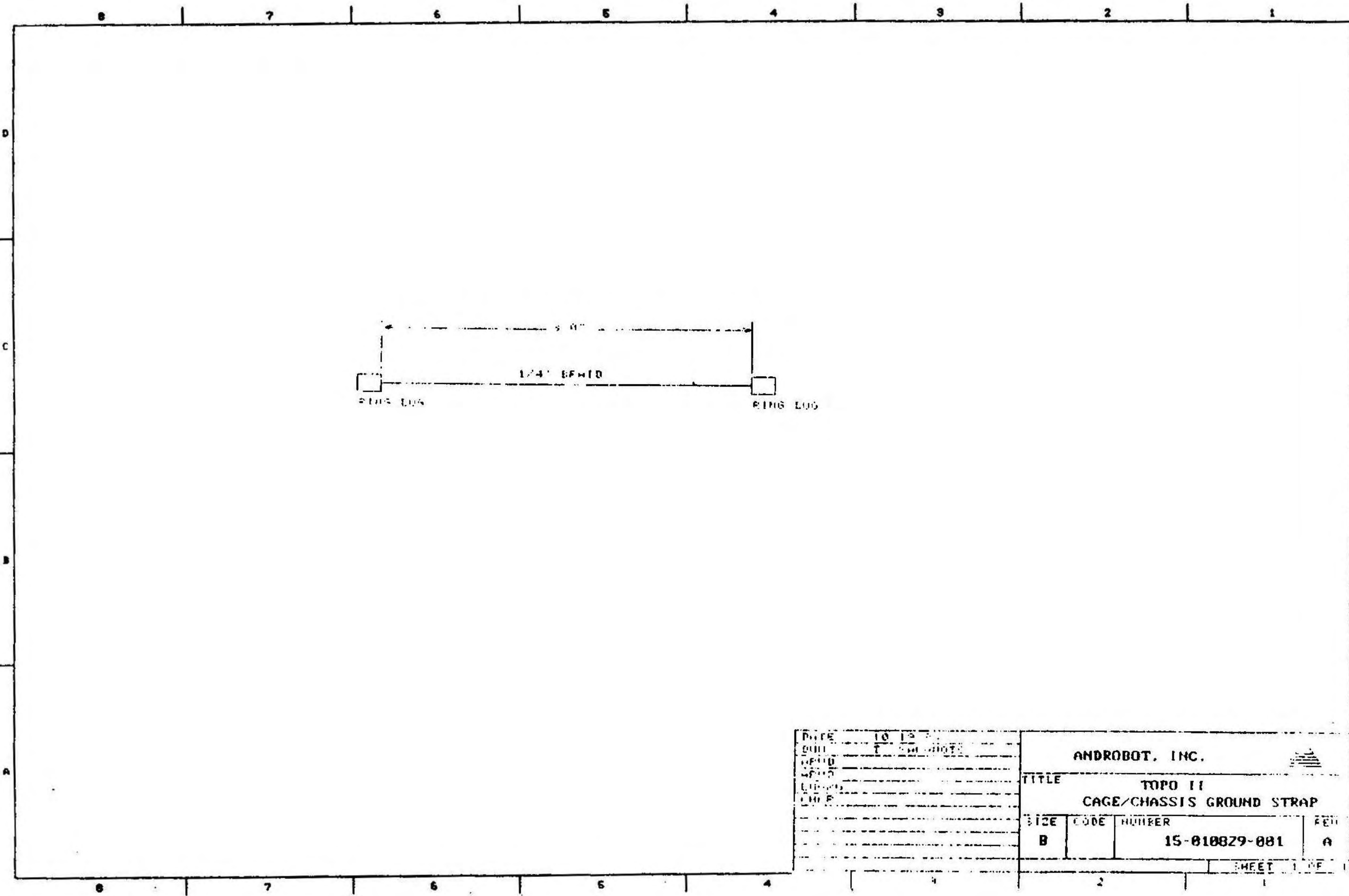
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| B | | 11-810233-001 | E |
| DATE | 11/29/83 | | SHEET 2 OF 2 |

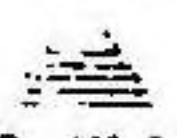


MAR 28 1984

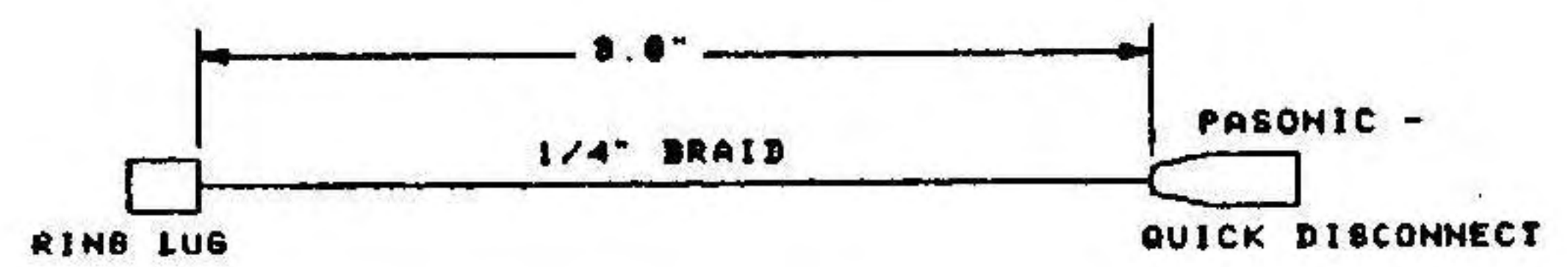
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|---|------|---------------|---|
| ANDROBOT, INC. | | |  |
| TITLE TOPO II, MOTION CONTROL CPU POWER SUPPLY | | | |
| SIZE | CODE | NUMBER | REV |
| B | | 11-010200-001 | B |
| DATE 11/02/83 | | SHEET 3 OF 6 | |

PRE-PRODUCTION RELEASE



| | | | |
|----------|-------------|---|---------------|
| DATE | 10 12 71 | ANDROBOT, INC. | |
| DRAWN | T. G. MOORE |  | |
| CHECKED | | TITLE | |
| APPROVED | | TOPO II | |
| DESIGNED | | CAGE/CHASSIS GROUND STRAP | |
| CONTRACT | | SIZE | CODE NUMBER |
| ORDER | | B | 15-010829-081 |
| | | | SHEET 1 OF 1 |

| REVISIONS | | | | |
|-----------|-----|-------------|------|------|
| ZONE | LTR | DESCRIPTION | DATE | APUD |
| | | | | |

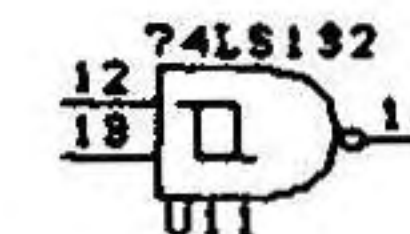
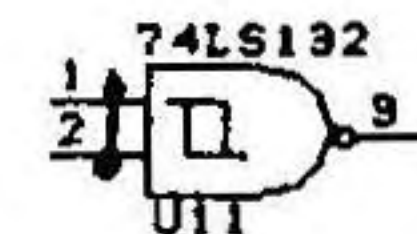
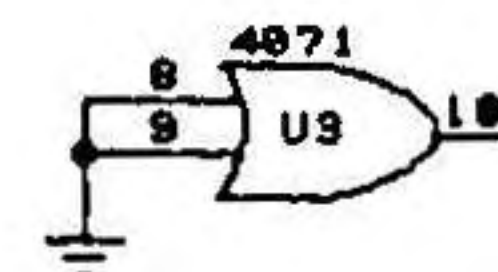
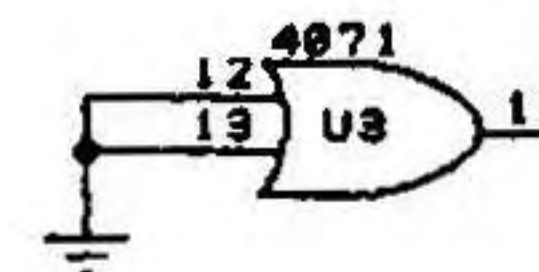


| | |
|------|-------------|
| DATE | 10/19/89 |
| DWN | T. SAKAMOTO |
| APUD | |
| ENGR | |
| CHKR | |
| | |
| | |

| | | | |
|----------------------|------|--------------|-----|
| ANDROBOT, INC. | | | |
| TITLE | | | |
| TOPO II | | | |
| BATTERY GROUND STRAP | | | |
| SIZE | CODE | NUMBER | REV |
| B | | 15-01030-001 | A |
| SHEET 1 OF 1 | | | |

| REVISIONS | | | |
|-----------|--------------------|----------|------|
| LTR | DESCRIPTION | DATE | APUD |
| A | PRE-PROD ECO 00019 | 10/21/83 | L.H. |
| B | REVISED ECO 00032 | 11/09/83 | L.H. |
| C | REVISED ECO 00058 | 12/09/83 | L.H. |
| D | REVISED ECO 00072 | 12/16/83 | L.H. |
| E | REVISED ECO 00078 | 12/20/83 | |

| IC TABLE | | | | | | | |
|----------|-----------|------|-----|-----|------|-----|-----|
| IC TYPE | REF. DES. | +0U | +10 | +5U | 0ND | +24 | +12 |
| 4011 | U2 | | | 14 | 07 | | |
| 4071 | U8 | | | 14 | 07 | | |
| 74LS192 | U11 | | | 14 | 07 | | |
| 74LS14 | U1 | | | 14 | 07 | | |
| 74LS378 | U6 | | | 20 | 10 | | |
| 2764 | U10 | | | 20 | 14 | | |
| 8031-A | U7 | | | 40 | 20 | | |
| 8155 | U5 | | | 40 | 20 | | |
| TL072 | U8 | | 08 | | 04 | | |
| LN384 | U4 | | 14 | | 7.9. | | |
| | | | | | 10.4 | | |
| 555 | U9 | | | | 01 | | |
| LM317T | UR1 | UOUT | | | | UIN | |
| LM317T | UR3 | UOUT | | | | UIN | |
| LM7805 | UR2 | | | 08 | 02 | | 01 |
| LM917L2 | UR4 | UIN | | | | | |




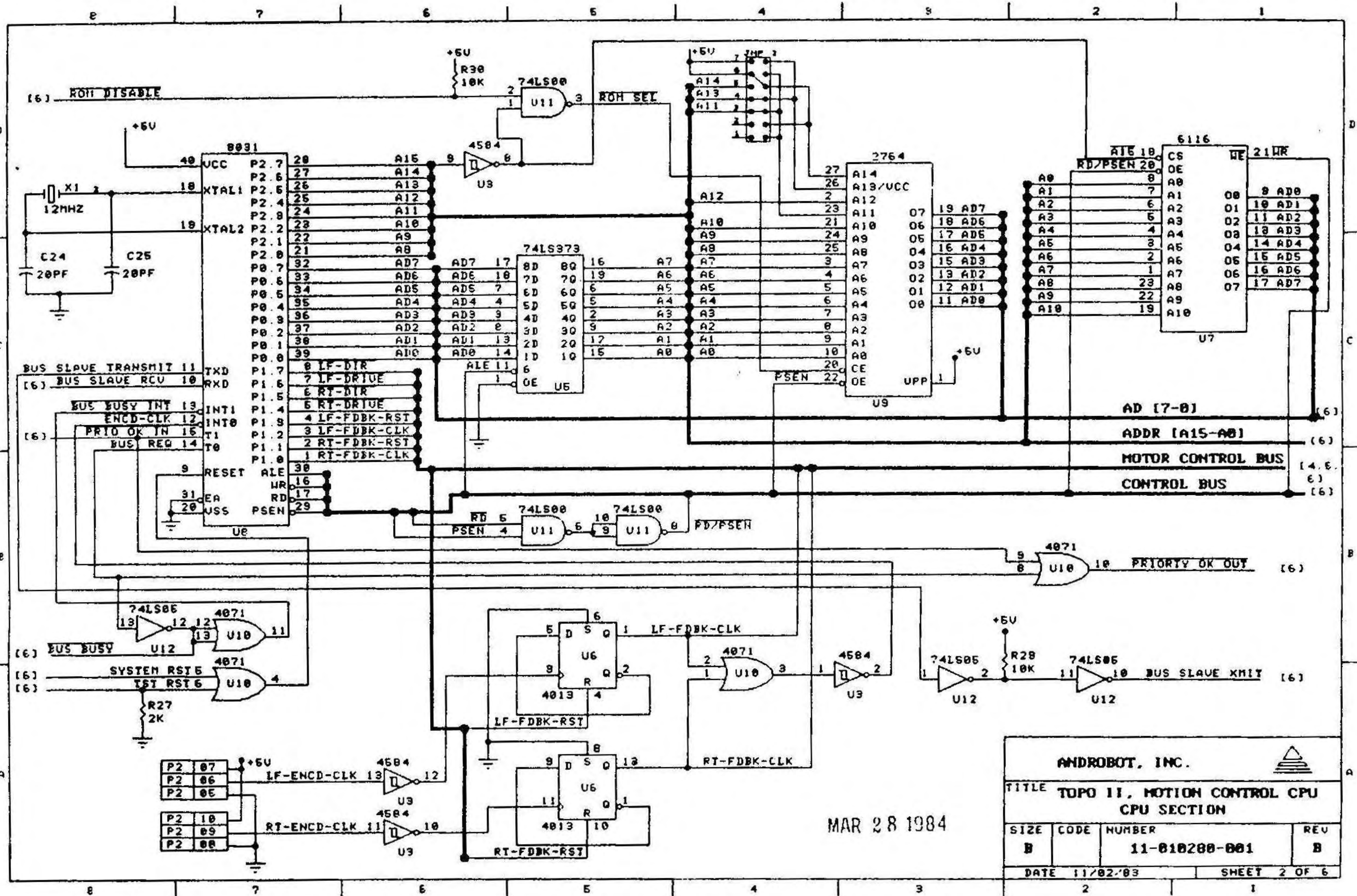
NOTES

- 0.1uF BYPASS CAPS ARE C11-C13, C22, C29, C41, C44.
- OPTIONAL PARTS FOR U1 ARE: 74HC14 OR MC14584 HOWEVER IF A 14584 IS USED THE AUTO-TESTER CANNOT BE USED TO TEST ALL FUNCTIONS OF THE BOARD.
- IF EITHER OPTIONAL PART IS USED IN U1 THEN R1 MUST BE INSTALLED. [SEE SHT. 06]

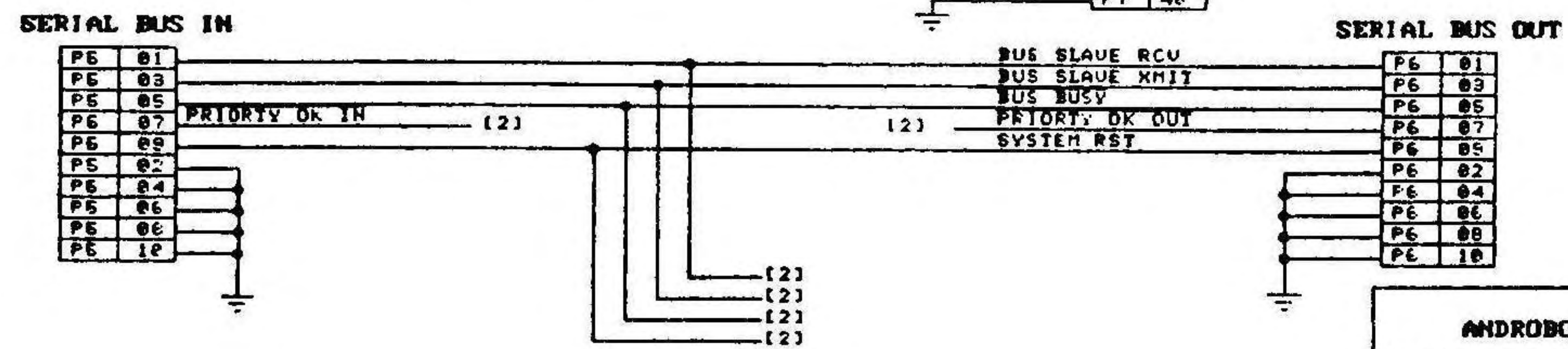
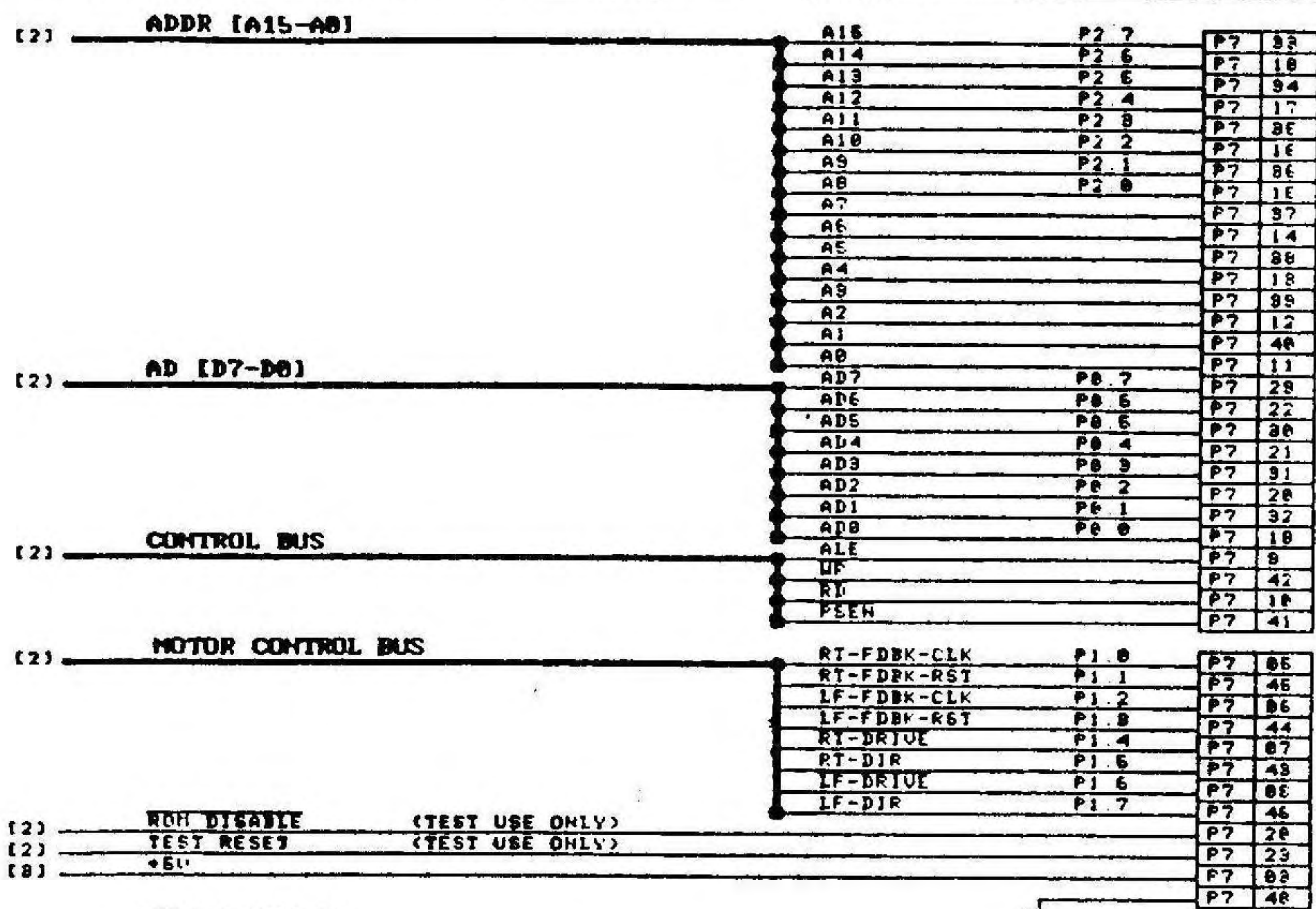
PRE-PRODUCTION RELEASE

MAR 28 1984

| | | | | |
|-------|----------|---|---------------|--------------|
| DATE | 12/20/83 | ANDROBOT, INC. | | |
| DWN | J. YOUNG |  TITLE TOPO II COMMUNICATION BD MAIN CPU UNUSED GATES, IC LIST | | |
| APUD | | | | |
| APUD | | | | |
| ENGRG | | | | |
| CHKR | | | | |
| SIZE | B | CODE | NUMBER | REL |
| | | | 11-010281-001 | E |
| | | | | SHEET 1 OF 1 |



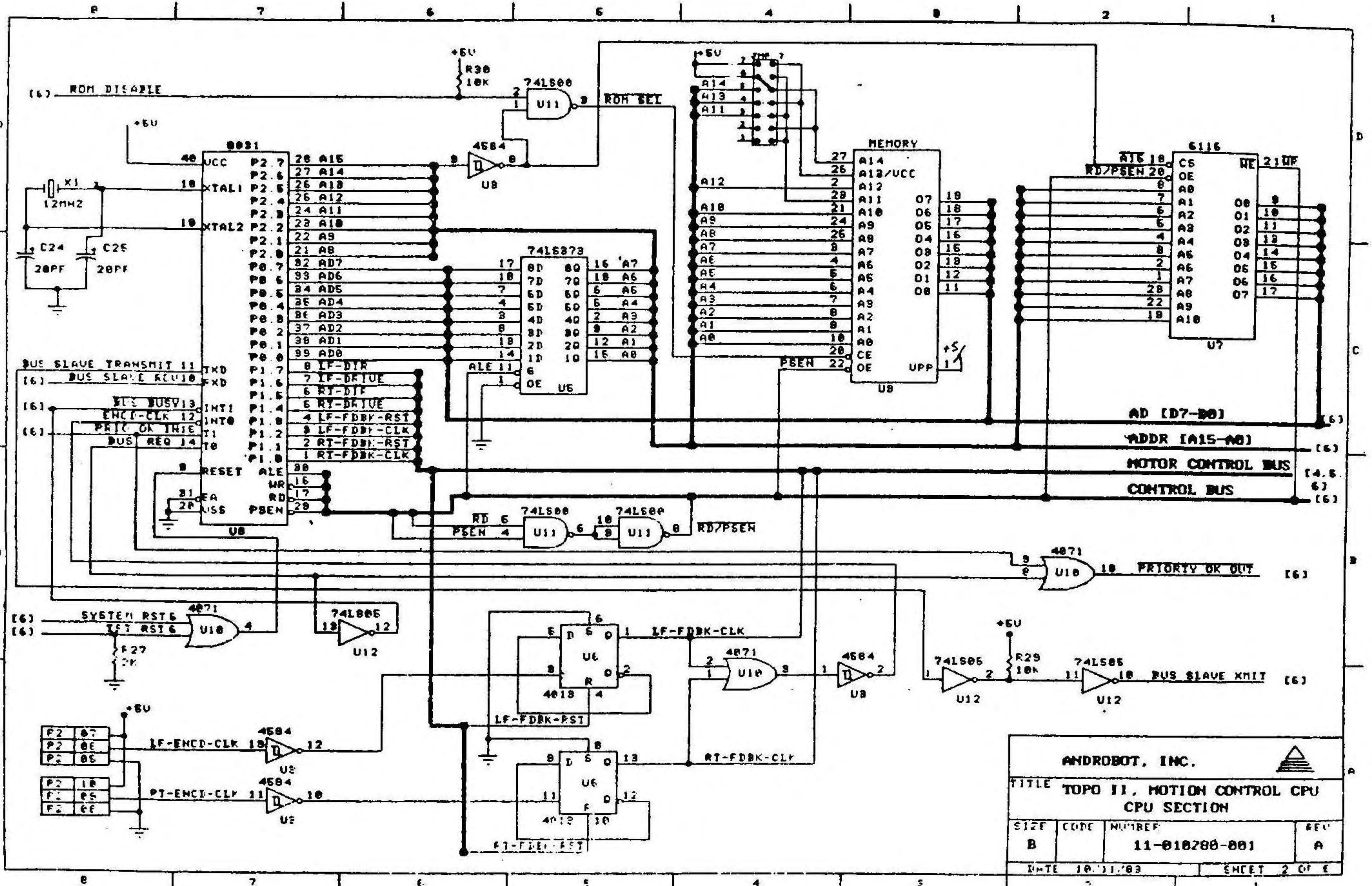
PRE-PRODUCTION RELEASE



ANDROBOT, INC.

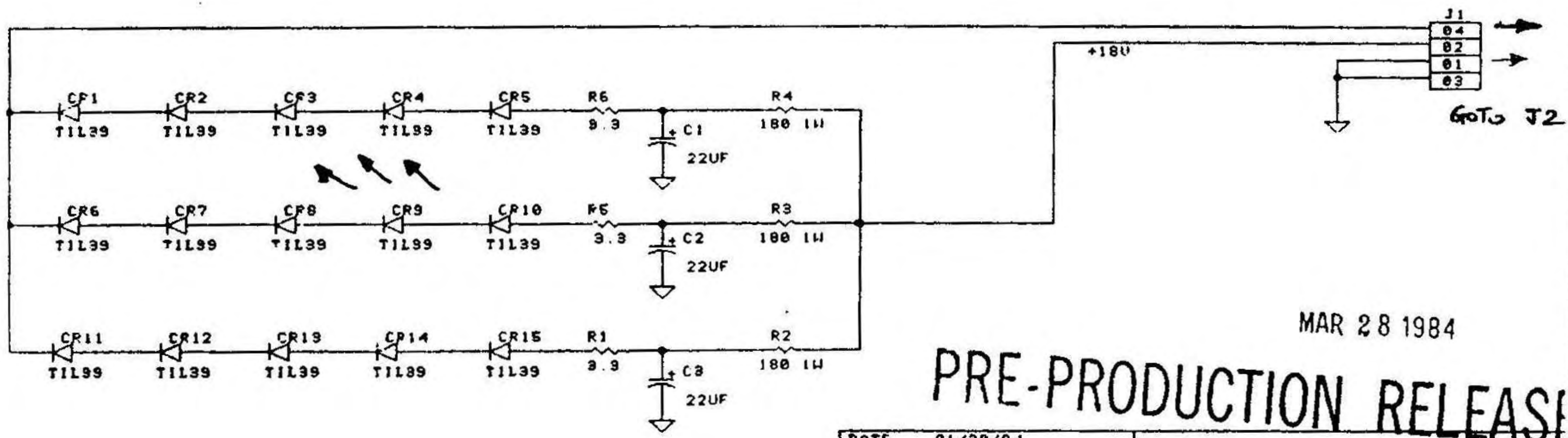
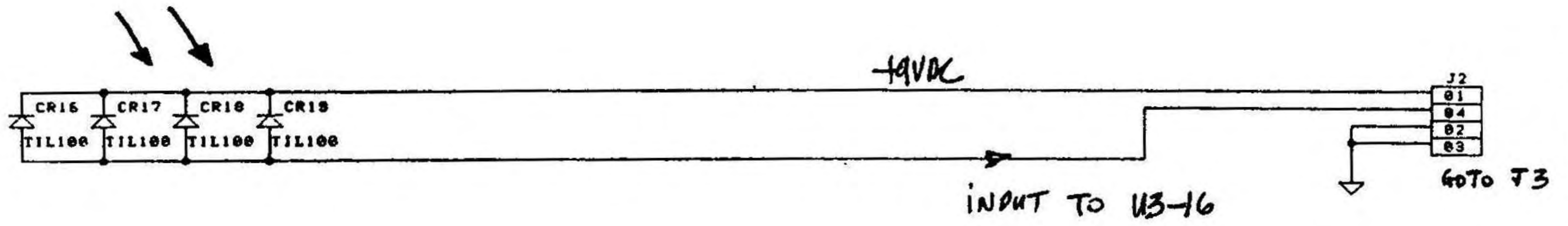
TITLE TOPO 11, MOTION CONTROL CPU
CONNECTOR PINOUT

| | | | |
|---------------|------|-------------------------|-----------|
| SIZE B | CODE | NUMBER 11-010200-001 | REV. A |
| DATE 10.11.83 | | SHEET 6 OF 6 | |



| | | | |
|--|------|---------------|-----|
| ANDROBOT, INC. | | | |
| TITLE TOPO 11, MOTION CONTROL CPU | | | |
| CPU SECTION | | | |
| SIZE | CODE | NUMBER | REV |
| B | | 11-010280-001 | A |
| DATE 10/11/83 | | SHEET 2 OF 6 | |

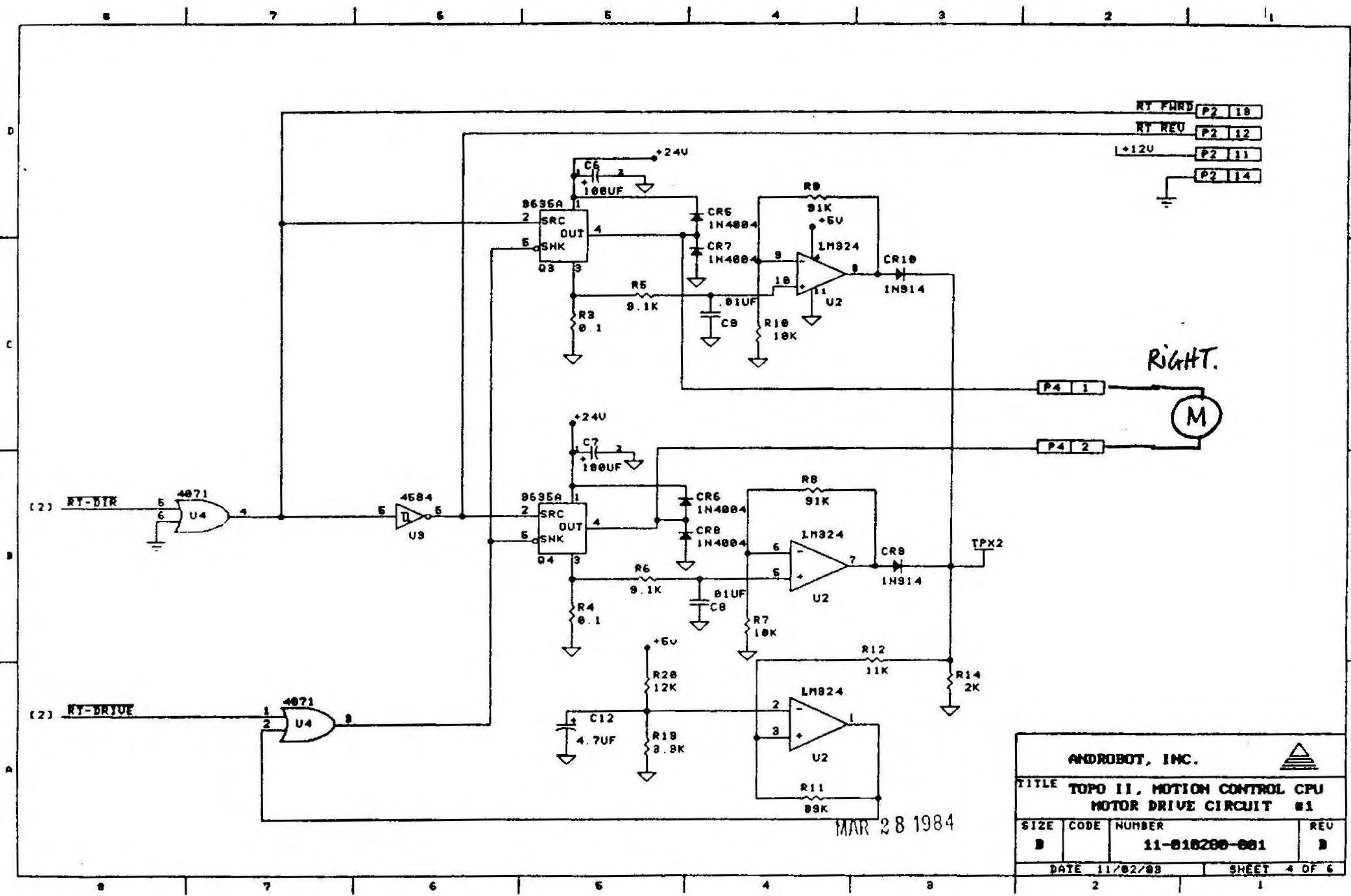
| REVISIONS | | | |
|-----------|------------------------|----------|------|
| LTR | DESCRIPTION | DATE | APVD |
| A | PRE-PROD REL ECO 00015 | 10/21/83 | L H |
| B | REVISIE ECO 00080 | 01/17/84 | |
| C | ECO 00081 | 1/30/84 | JR |




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PRE-PRODUCTION RELEASE

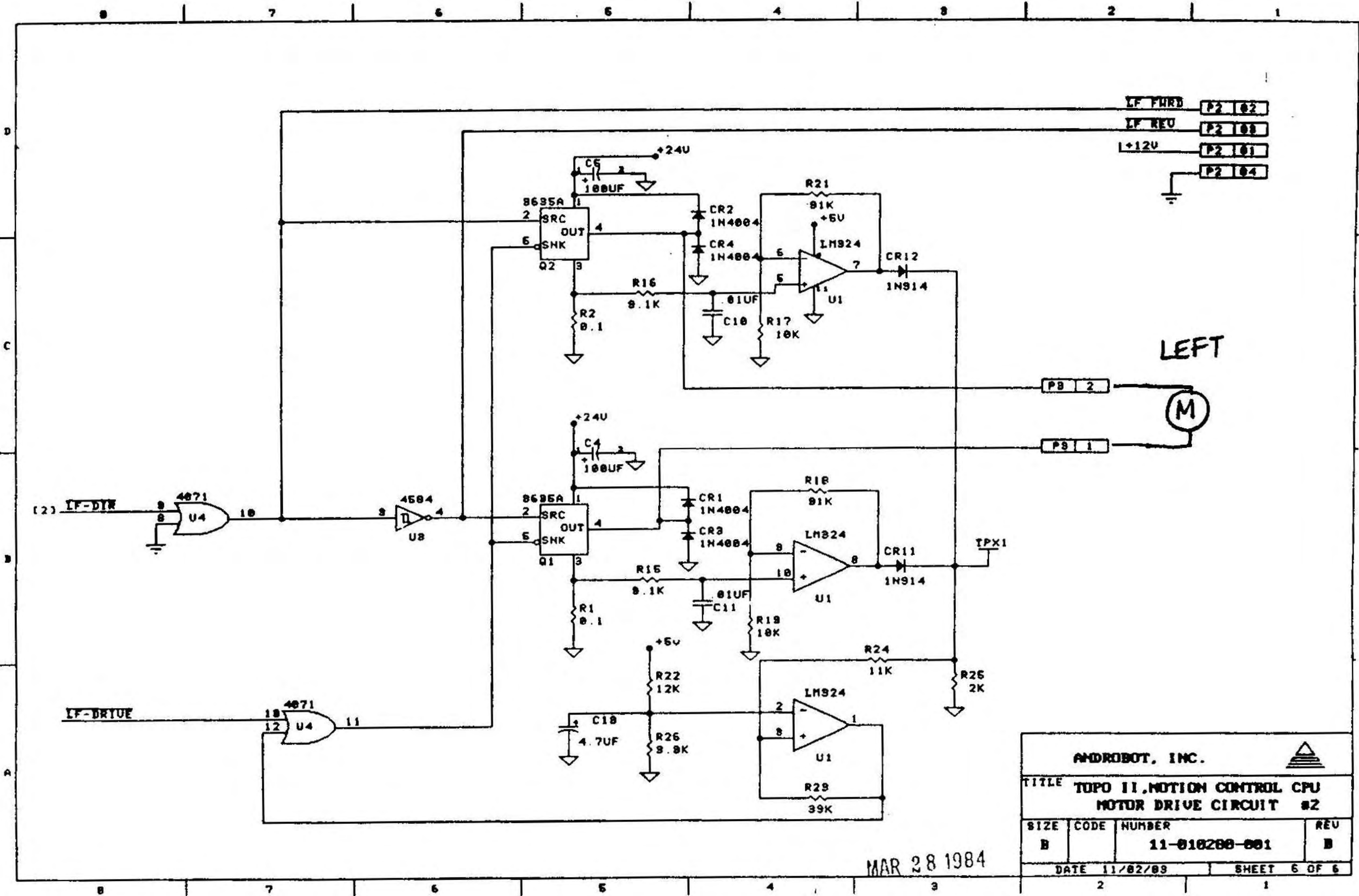
| | | | | |
|--------------|----------|--------------------------|------|---------------|
| DATE | 01/30/84 | ANDROBOT, INC. | | |
| DUH | J YOUNG | TITLE | | |
| APUD | | MOBILE TRANCEIVER SENSOR | | |
| APUD | | SIZE | CODE | NUMBER |
| ENGF6 | | B | | 11-010369-001 |
| CHKR | | | | REVISION |
| | | | | C |
| SHEET 1 OF 1 | | | | |



MAR 28 1984

| | | | |
|--|-----------------------|-------------------------|----------|
| ANDROBOT, INC.  | | | |
| TITLE TOPO 11, MOTION CONTROL CPU MOTOR DRIVE CIRCUIT #1 | | | |
| SIZE B | CODE 11-010200-001 | NUMBER 11-010200-001 | REV B |
| DATE 11/02/83 | | SHEET 4 OF 6 | |

PRE-PRODUCTION RELEASE

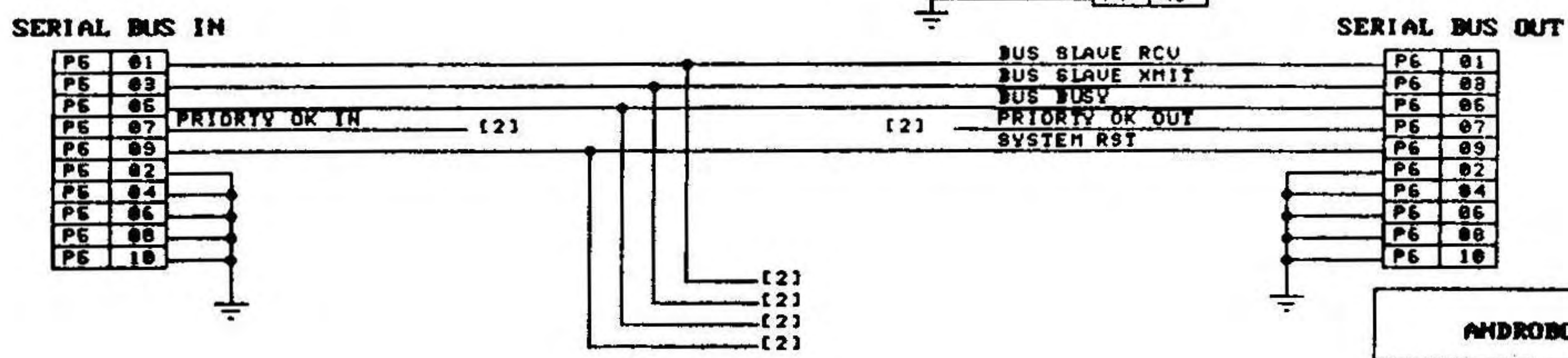
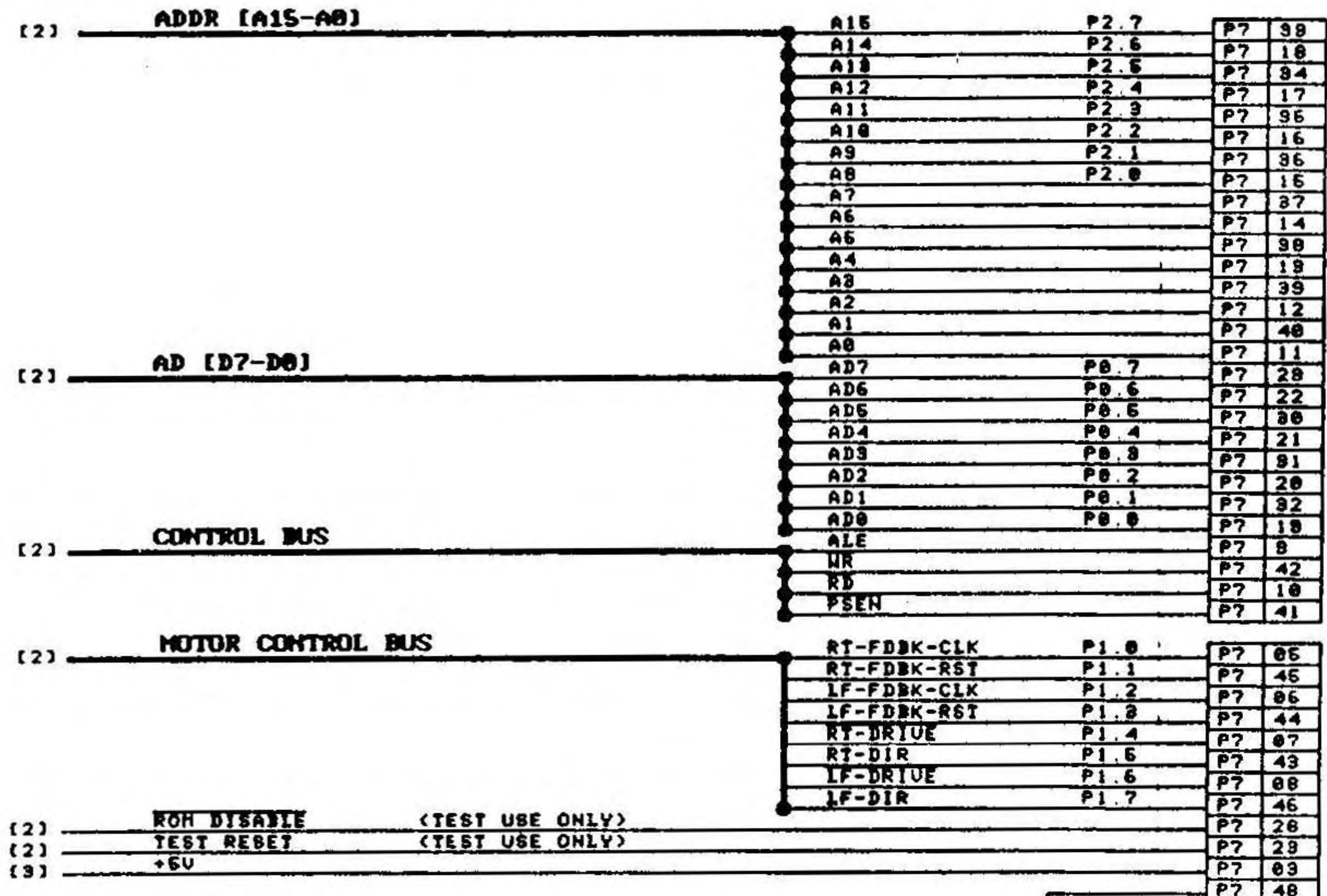



LEFT

| | | | |
|---|------|-------------------------|----------|
| ANDROBOT, INC. | | | |
| TITLE TOPO II, MOTION CONTROL CPU MOTOR DRIVE CIRCUIT #2 | | | |
| SIZE B | CODE | NUMBER 11-010288-001 | REV B |
| DATE 11/02/83 | | SHEET 6 OF 6 | |

MAR 28 1984

PRE-PRODUCTION RELEASE



ANDROBOT, INC. 

TITLE TQPO II, MOTION CONTROL CPU CONNECTOR PINOUT

| | | | |
|------|------|---------------|-----|
| SIZE | CODE | NUMBER | REV |
| B | | 11-010200-001 | B |

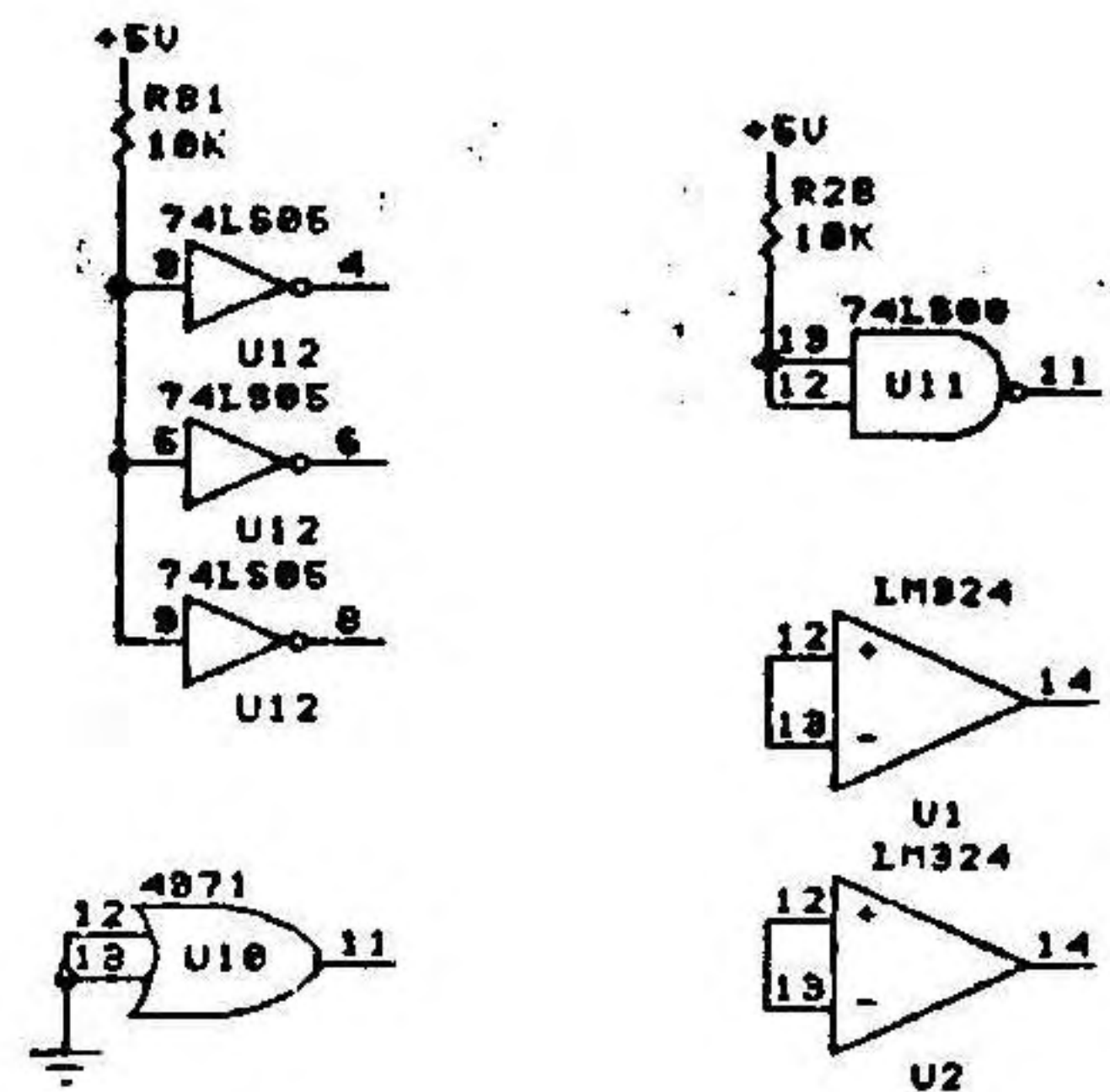
DATE 11/02/88 SHEET 6 OF 6

MAR 28 1984

PRE-PRODUCTION RELEASE

| REVISIONS | | | |
|-----------|-------------------------|-------|-------------|
| REF | DESCRIPTION | DATE | APP'D |
| A | PRE-PROD REL, ELD 00019 | 10/21 | [Signature] |

| IC TABLE | | | | | | |
|----------|----------------|-----|-----|----|-----|-----|
| IC TYPE | REF DESIGNATOR | QTY | +5V | 0V | -5V | +24 |
| 8821 | U6 | 1 | 40 | 20 | | |
| 2764 | U8 | 1 | 20 | 14 | | |
| 6116 | U7 | 1 | 24 | 12 | | |
| 4013 | U6 | 1 | 14 | 07 | | |
| 4071 | U4, U10 | 2 | 14 | 07 | | |
| 4584 | U3 | 1 | 14 | 07 | | |
| 74LS00 | U11 | 1 | 14 | 07 | | |
| 74LS05 | U12 | 1 | 14 | 07 | | |
| 74LS373 | U5 | 1 | 20 | 10 | | |
| LM24 | U1, U2 | 2 | 04 | 11 | | |
| LM7805 | UR1 | 1 | 08 | 02 | 01 | |
| SG3695 | Q1, Q2, Q3, Q4 | 4 | | | | 01 |

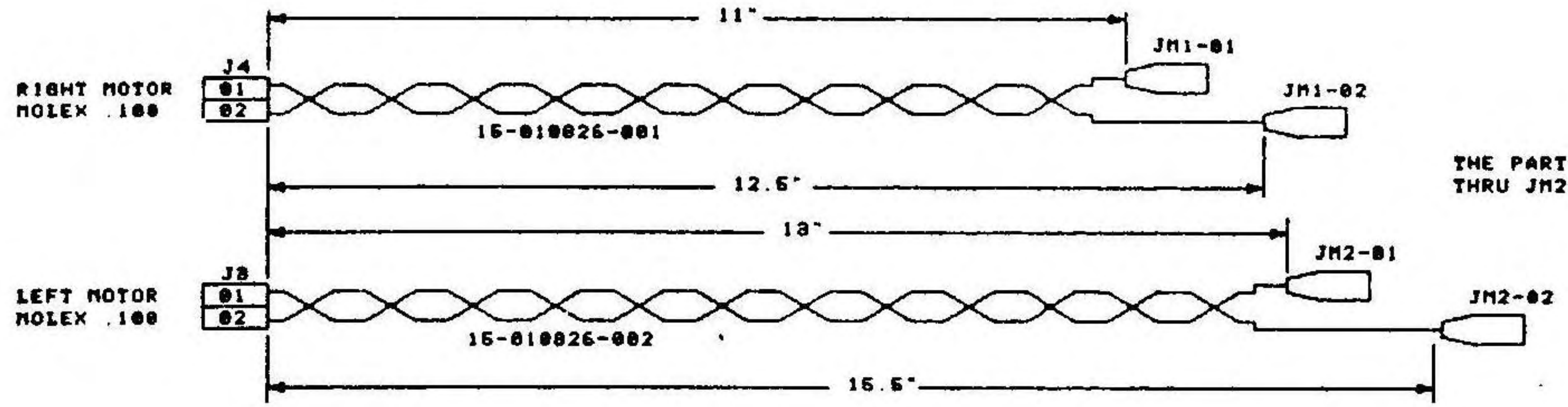


NOTE

- 1 ALL BYPASS CAPACITORS ARE 10UF IN VALUE.
- 2 DESIGNATORS FOR CAPS ARE C14 THRU C23.

| | | | | | |
|----------|-------------|----------|---------------|----------------|---|
| DATE | 10/21/83 | | | ANDROBOT, INC. | |
| DESIGN | [Signature] | | | | |
| APP'D | [Signature] | | | TITLE | TOP0 11, MOTION CONTROL CPU COVER SHEET |
| DATE | SIZE | CODE | NUMEFF | REV | |
| Use Only | B | | 11-010200-001 | A | |
| | D-1E | 10 11/03 | | SHEET | 1 OF 6 |

| REVISIONS | | | | |
|-----------|-----|-------------|------|-----|
| ZONE | ITR | DESCRIPTION | DATE | APU |
| | | | | |




THE PART NUMBER FOR JM1-01 THRU JM2-02 IS DU10-100

WIRING NOTE

| ITEM | DESIGNATOR | WIRE COLOR | LENGTH (IN.) | TERMINATION PT | GAUGE |
|------|------------|------------|--------------|----------------|-------|
| 1 | J4-01 | RED | 11.0 | JM1-01 | 18 |
| 2 | J4-02 | BLACK | 12.5 | JM1-02 | 18 |
| 3 | J3-01 | RED | 13.0 | JM2-01 | 18 |
| 4 | J3-02 | BLACK | 15.5 | JM2-02 | 18 |
| | | | | | |
| | | | | | |

| | |
|-------|--------------------|
| DATE | 10/18/88 |
| DUN | T SAKAMOTO |
| APUD | |
| APUD | |
| ENGRG | <i>[Signature]</i> |
| CHKR | |
| | |
| | |

ANDROBOT, INC. 

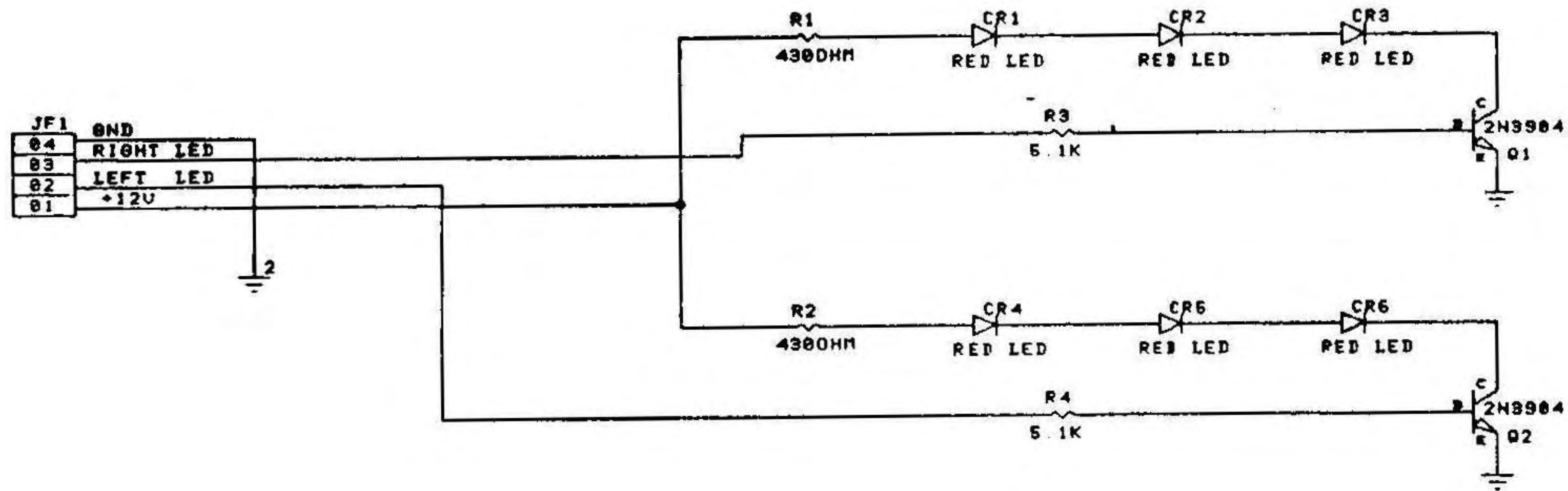
TITLE **TOPO II**

MOTOR HARNESS ASSEMBLY

| | | | |
|------|------|-------------------|-----|
| SIZE | CODE | NUMBER | REL |
| B | | 15-010026-001,002 | A |


SHEET 1 OF 1

| REVISIONS | | | | |
|-----------|-----|----------------|----------|------|
| ZONE | LTR | DESCRIPTION | DATE | APUD |
| | A | PRE-PRODUCTION | 11/21/83 | T-S |



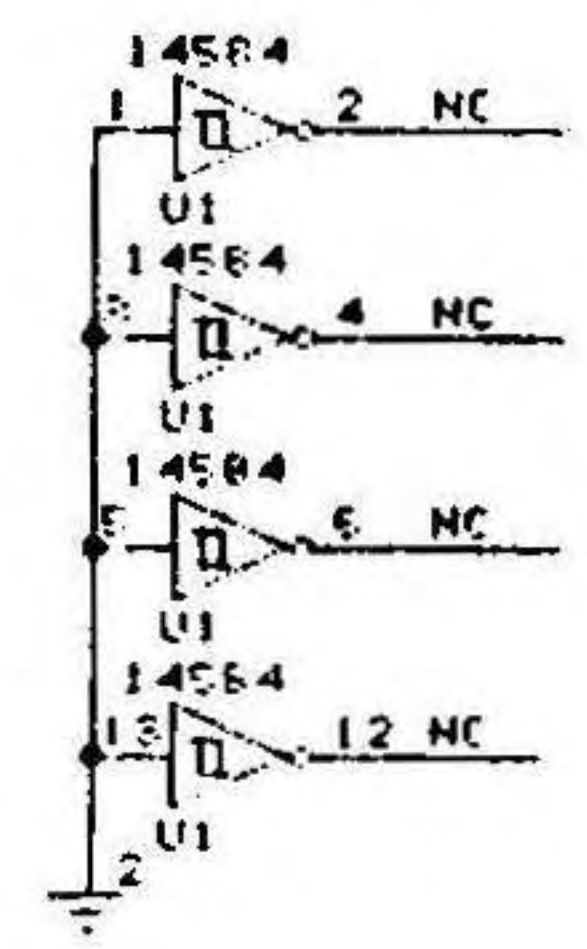
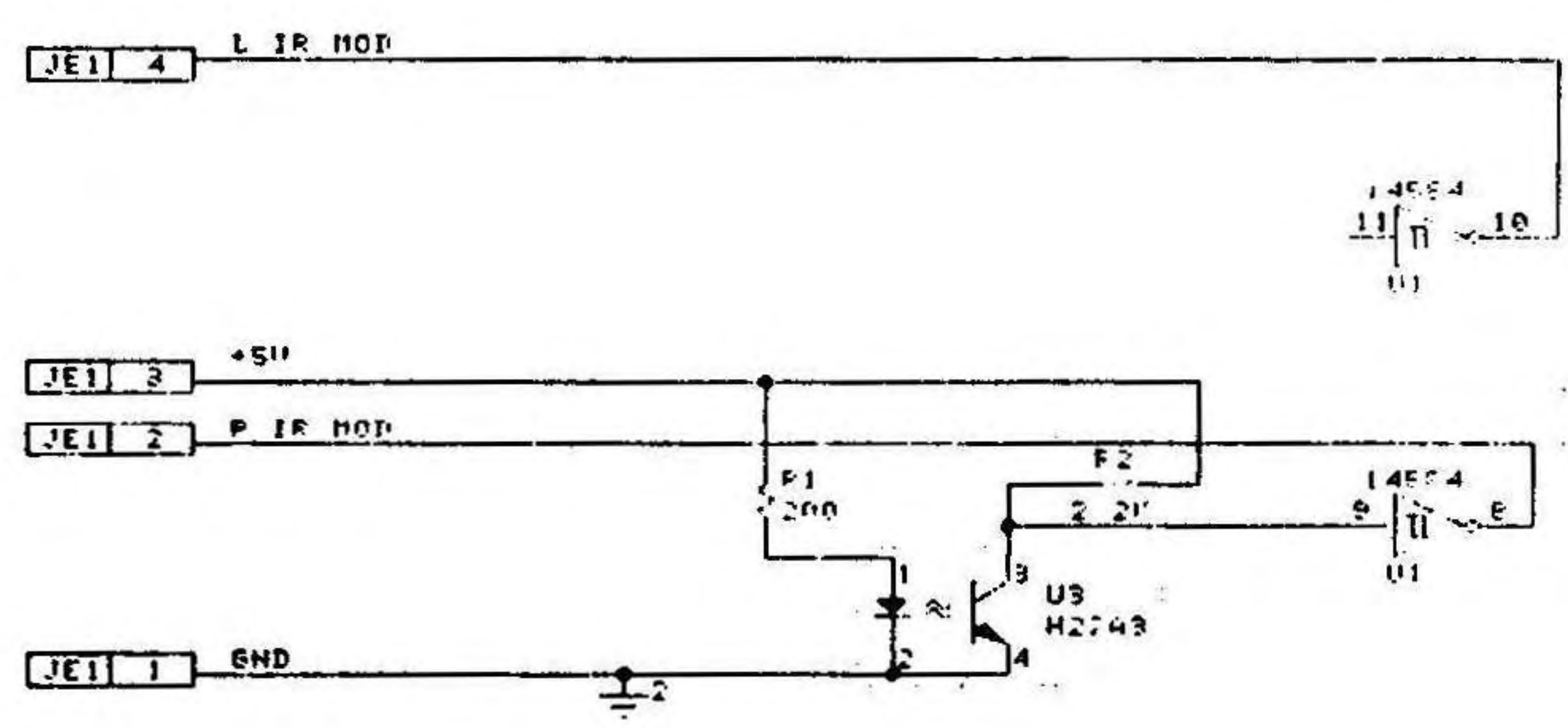
PRE-PRODUCTION RELEASE

MAR 28 1984

| | | | | |
|--------------|--------------------|--|------|---------------|
| DATE | 10/20/83 | ANDROBOT, INC.  | | |
| DWN | T. SAKAMOTO | TITLE | | |
| APUD | | TOPO 11 | | |
| APUD | | FOOTLIGHT SCHEMATIC | | |
| ENGRG | <i>[Signature]</i> | SIZE | CODE | NUMBER |
| CHKR | | B | | 11-010249-001 |
| | | | | REU |
| | | | | A |
| SHEET 1 OF 1 | | | | |


| REVISIONS | | | |
|-----------|-------------------------|------|--------|
| LTG | DESCRIPTION | DATE | APPROV |
| A | PRE-PROD REL, ELD 00014 | | |
| A1 | ECC 00093 | | |

| PERMISSION: | | | | |
|-------------|-----|--------------|----------|--------|
| DATE | LTG | DESCRIPTION | DATE | APPROV |
| | A | REVISED DATE | 10/20/83 | |
| | A1 | ECC 00093 | 11-21-83 | |



PRE-PRODUCTION RELEASE

MAR 28 1984

| | | | | |
|--------------|----------|---|---------------|-----|
| DATE | 10/20/83 | ANDROBOT, INC. | | |
| DESIGN | J. YOUNG |  | | |
| APPROV | | | | |
| ENGINEER | J. Young | | | |
| CHECK | | | | |
| TITLE | | TOPO II MOTOR ENCODER BRD. | | |
| SIZE | B | CODE | NUMBER | REL |
| | | | 11-010757-001 | A |
| SHEET 1 OF 1 | | | | |

(2) ADDR (A14-AB)

| | | |
|-------------|----|----|
| A16 | P5 | 99 |
| A14 | P5 | 10 |
| A13 | P5 | 34 |
| A12 | P5 | 17 |
| A11 | P5 | 86 |
| A10 | P5 | 16 |
| A9 | P5 | 96 |
| A8 | P5 | 15 |
| A7 | P5 | 97 |
| A6 | P5 | 14 |
| A5 | P5 | 98 |
| A4 | P5 | 13 |
| A3 | P5 | 39 |
| A2 | P5 | 12 |
| A1 | P5 | 40 |
| A0 | P5 | 11 |
| AD7 | P5 | 28 |
| AD6 | P5 | 22 |
| AD5 | P5 | 90 |
| AD4 | P5 | 21 |
| AD3 | P5 | 91 |
| AD2 | P5 | 20 |
| AD1 | P5 | 92 |
| AD0 | P5 | 19 |
| ALE | P5 | 8 |
| DR | P5 | 42 |
| RD | P5 | 18 |
| PSEN | P5 | 41 |
| TEST ROH | P5 | 29 |
| TEST RESEY | P5 | 23 |
| IR AGC RST | P5 | 46 |
| SYSTEM RST | P5 | 8 |
| PRIORITY OK | P5 | 43 |
| LOOP BACK | P5 | 7 |
| SPTST | P5 | 44 |
| DTR | P5 | 6 |
| ECHO RST | P5 | 45 |
| SPEECH EN | P5 | 5 |
| +18V | P5 | 1 |
| +9V | P5 | 2 |
| +5V | P5 | 3 |
| -5V | P5 | 50 |
| GND | P5 | 48 |

(2) AD [7-0]

(2) CONTROL BUS

*EDIT CONNECTION
SPARE!*

(2) LOCAL RS232 BUS

| | | |
|---------------|----|----|
| SYSTEM RST | P4 | 89 |
| BUS MSTR RCV | P4 | 83 |
| BUS BUSY | P4 | 85 |
| PRIORITY OK | P4 | 87 |
| BUS MSTR XMIT | P4 | 81 |
| | P4 | 10 |
| | P4 | 82 |
| | P4 | 84 |
| | P4 | 86 |
| | P4 | 88 |

*GOTE MOTION CONTROL ETC
MAR 28 1984*

PRE-PRODUCTION RELEASE

ANDROBOT, INC.

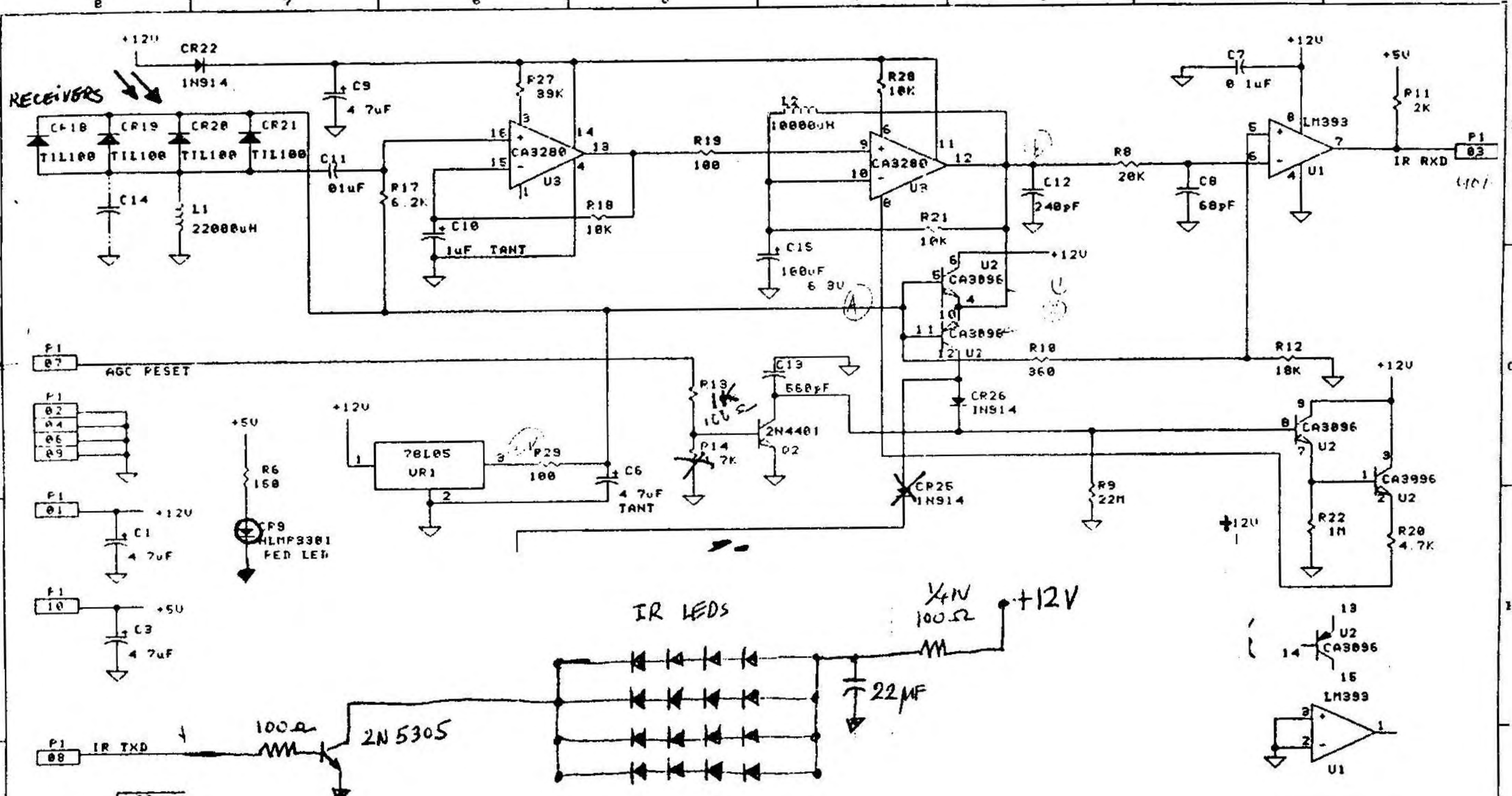


TITLE TOPO II COMMUNICATION I
SERIAL BUS & TEST CONN. PINOU

| SIZE | CODE | NUMBER | REL |
|------|------|---------------|-----|
| B | | 11-018281-001 | A |

DATE 12/20/83 SHEET 6 OF

ACB 11/11/69
 A = 5VDC



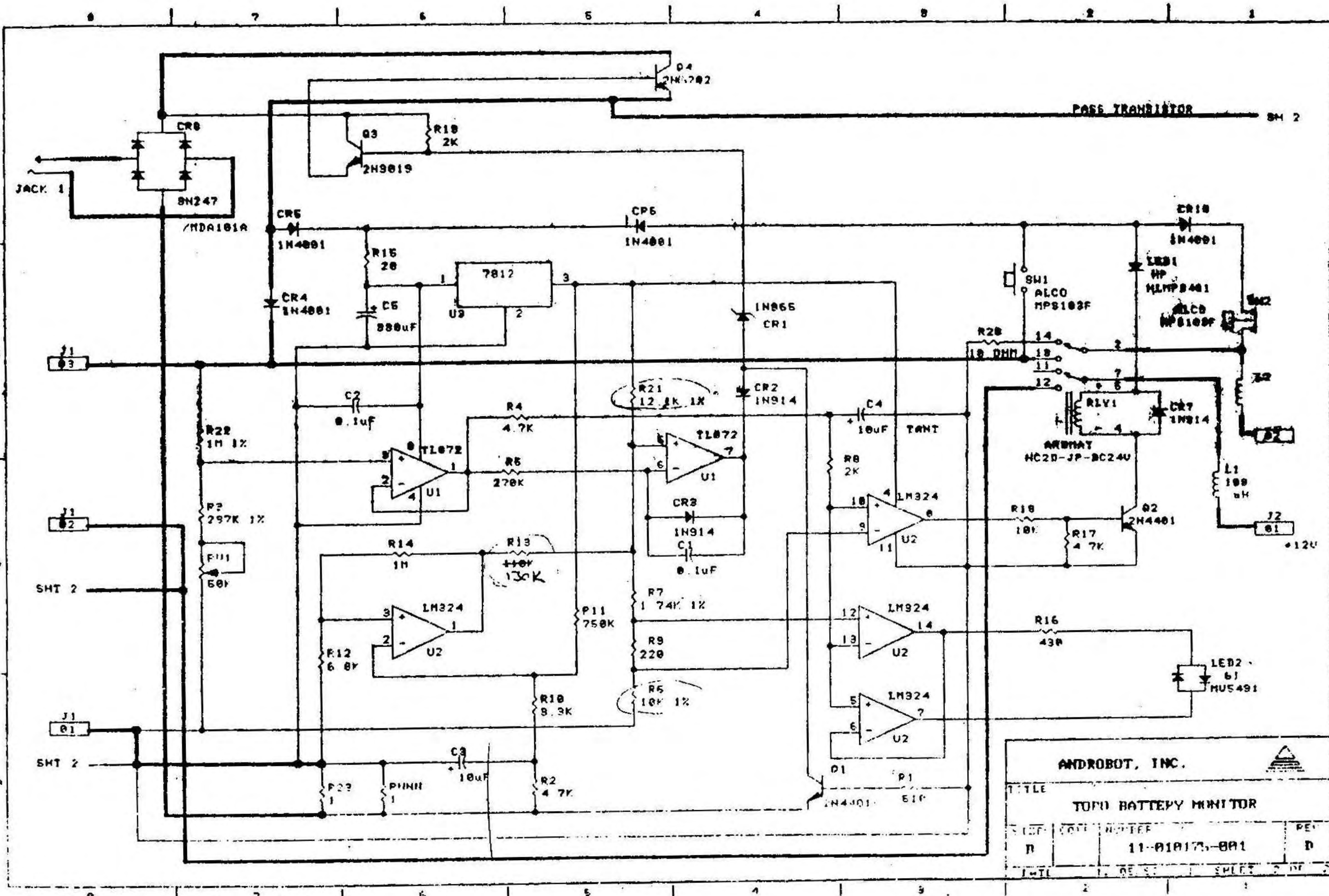
| LTR | DESCRIPTION |
|-----|--------------|
| A | PER-PROD DEL |
| A | REVISED ECO |

| | | | |
|-----------------------------|------|-------------------------|------------|
| ANDROBOT, INC. | | | |
| TITLE T DATA LINK ANALOG | | | |
| SIZE B | CODE | NUMBER 11-818598-001 | REV A.1 |
| DATE 12/28/69 | | SHEET 1 OF | |

PRODUCTION RELEASE

⊗ CUT OPEN

24/8
 ③



| | | | |
|-----------------------------|---------|---------------|--------|
| ANDROBOT, INC. | | | |
| TITLE | | | |
| TOPO BATTERY MONITOR | | | |
| REV | DATE | NUMBER | REV |
| D | | 11-010175-001 | D |
| INTL | 1. DE S | SHEET | 2 OF 2 |

| error code ----- | cause ----- |
|---------------------|---|
| 1100 | Can't write and read one byte of value 0 at ram address 0. |
| 1101 | Can't write and read a value 1 in bit 0 addr 0 |
| 1102 | Can't write and read a value 1 in bit 1 addr 0 |
| 1103 | Can't write and read a value 1 in bit 2 addr 0 |
| 1104 | Can't write and read a value 1 in bit 3 addr 0 |
| 1105 | Can't write and read a value 1 in bit 4 addr 0 |
| 1106 | Can't write and read a value 1 in bit 5 addr 0 |
| 1107 | Can't write and read a value 1 in bit 6 addr 0 |
| 1108 | Can't write and read a value 1 in bit 7 addr 0 |
| 1110 | Can't write and read a pattern into/out of ram at addresses 0-FFH. |
| 1111 | Can't read the previous pattern back from ram addresses 0-FFH. |
| 2001 | All odd bytes are of value 0. |
| 2002 | All even bytes are of value 0. |
| 3101 | The pull-ups on ports B & C look like grounds. |
| 3102 | The ports A and C report something other than value 0 when port B is output with value 0. |
| 3103 | The ports A and C report something other than the test pattern output on port B. |
| 3104 | The ports A and B report something other than value 0 when port C is output with value 0. |
| 3105 | The ports A and B report something other than the test pattern output on port C. |

COMMUNICATION BOARD TEST
NUMBER DEFINITIONS

23 MAY 1984

| error code | cause |
|------------|---|
| 1100 | Can't write and read one byte of value 0 at ram address 0. |
| 1101 | Can't write and read a value 1 in bit 0 addr 0 |
| 1102 | Can't write and read a value 1 in bit 1 addr 0 |
| 1103 | Can't write and read a value 1 in bit 2 addr 0 |
| 1104 | Can't write and read a value 1 in bit 3 addr 0 |
| 1105 | Can't write and read a value 1 in bit 4 addr 0 |
| 1106 | Can't write and read a value 1 in bit 5 addr 0 |
| 1107 | Can't write and read a value 1 in bit 6 addr 0 |
| 1108 | Can't write and read a value 1 in bit 7 addr 0 |
| 1110 | Can't write and read a pattern into/out of ram at addresses 0-FFH. |
| 1111 | Can't read the previous pattern back from ram addresses 0-FFH. |
| 2001 | All odd bytes are of value 0. |
| 2002 | All even bytes are of value 0. |
| 3101 | The pull-ups on ports B & C look like grounds. |
| 3102 | The ports A and C report something other than value 0 when port B is output with value 0. |
| 3103 | The ports A and C report something other than the test pattern output on port B. |
| 3104 | The ports A and B report something other than value 0 when port C is output with value 0. |
| 3105 | The ports A and B report something other than the test pattern output on port C. |

COMMUNICATION BOARD TEST
NUMBER DEFINITIONS

23 MAY 1984

ANDROBOT TOPO I/O

Solder Side (Corrected) Component Side

