

**TECHNICAL MANUAL**  
**MW-50A**  
**AUDIO INPUT/PDM CONTROL &**  
**FEEDBACK BOARD MODIFICATION**

**888-9000-008**



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MW-50A AM BROADCAST TRANSMITTER AUDIO INPUT/PDM CONTROL AND FEEDBACK  
BOARD MODIFICATION INSTRUCTIONS

# MANUAL REVISION HISTORY

MCN OR REV.NO.	MCN OR REV. DATE	ECN NO.	DESCRIPTION OF CHANGE
A-1	04/29/82	ENGR REQUEST	Revision A: December 1981  Add "NOTE" to page 5-1 to provide additional resistor information. New page is attached.



## SECTION V

### PARTS LIST

#### 5-1. INTRODUCTION

5-2. This section provides a description, reference designator, and part number for replaceable electrical parts and assemblies necessary for proper maintenance of the Audio input and PDM Feedback module.

5-3. Refer to MW-50A AM BROADCAST TRANSMITTER Technical Manual 888-1740-001 for the other replacement parts information.

#### 5-4. REPLACEABLE PARTS SERVICE

5-5. Replacement parts are available 24 hours a day, seven days a week from the HARRIS Service Parts Department. Telephone 217/222-8200 to contact the service parts department or address correspondence to Service Parts Department, HARRIS CORPORATION, Broadcast Products Division, P.O. Box 4290, Quincy, Illinois 62305-4290, USA. The HARRIS factory may also be contacted through a TWX facility (910-246-3312) or a TELEX service (40-4347).

#### NOTE

47k ohms is the value of Resistor Array R19, 540 1360 000 provided on this Audio Board. Other values of R19 are available as required and are listed below:

22k ohms - 540 0944 000, quantity of 8  
27k ohms - 540 0946 000, quantity of 8  
33k ohms - 540 0948 000, quantity of 8  
39k ohms - 540 0950 000, quantity of 8

Table 5-1. Audio Input Board 1A2A2 - 992 5898 001

REF. SYMBOL	HARRIS PART NO.	DESCRIPTION	QTY.
C1 thru C4	516 0074 000	Capacitor, .005 uF, 1 kV	4
C5 thru C9	500 0759 000	Capacitor, 100 pF, 500V	5
C10	500 0832 000	Capacitor, 360 pF, 500V	1
C11	500 0838 000	Capacitor, 560 pF, 300V	1
C12	500 0827 000	Capacitor, 130 pF, 500V	1
C13,C14	526 0097 000	Capacitor, 47 uF, 35V	2
C15,C16	526 0109 000	Capacitor, 22 uF, 20V	2
C17 thru C20	522 0524 000	Capacitor, 10 uF, 35V	4
C21	500 0840 000	Capacitor, 680 pF, 300V	1
C22 thru C27	516 0453 000	Capacitor, 0.1 uF, 100V	6
C28	500 0834 000	Capacitor, 430 pF, 500V	1
C29	516 0082 000	Capacitor, .01 uF, 1 kV	1
C30	516 0557 000	Capacitor, .47 uF, 12V	1
C31	526 0057 000	Capacitor, 100 uF, 20V	1
C32	526 0102 000	Capacitor, 150 uF, 6V	1
C33	522 0256 000	Capacitor, 20 uF, 50V	1
C34	526 0050 000	Capacitor, 1 uF, 35V	1
C35	522 0367 000	Capacitor, 25 uF, 25V	1
C37	608 0258 000	Capacitor, .001 uF, 600V	1
C38	508 0271 000	Capacitor, .025 uF, 100V	1
C39,C40	508 0408 000	Capacitor, 0.1 uF, 50V	2
C41	522 0523 000	Capacitor, 470 uF, 16V	1

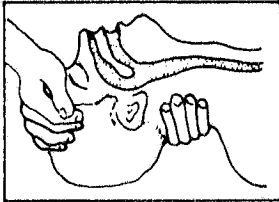
## Treatment of Electrical Shock

1. If victim is not responsive follow the A-B-Cs of basic life support.

PLACE VICTIM FLAT ON HIS BACK ON A HARD SURFACE

### (A) AIRWAY

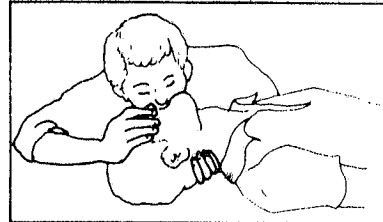
IF UNCONSCIOUS,  
OPEN AIRWAY



LIFT UP NECK  
PUSH FOREHEAD BACK  
CLEAR OUT MOUTH IF NECESSARY  
OBSERVE FOR BREATHING

### (B) BREATHING

IF NOT BREATHING,  
BEGIN ARTIFICIAL  
BREATHING

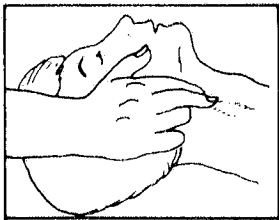


TILT HEAD  
PINCH NOSTRILS  
MAKE AIRTIGHT SEAL

4 QUICK FULL BREATHS

REMEMBER MOUTH TO MOUTH RESUSCITATION  
MUST BE COMMENCED AS SOON AS POSSIBLE

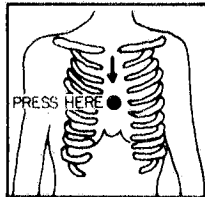
CHECK CAROTID PULSE



IF PULSE ABSENT,  
BEGIN ARTIFICIAL  
CIRCULATION

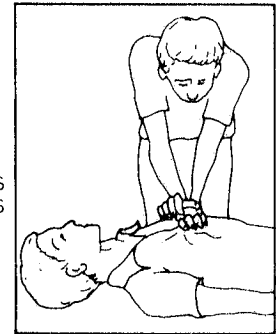
### (C) CIRCULATION

DEPRESS STERNUM 1 1/2" TO 2"



APPROX. { ONE RESCUER  
80 SEC. { 15 COMPRESSIONS  
2 QUICK BREATHS

APPROX. { TWO RESCUERS  
60 SEC. { 5 COMPRESSIONS  
1 BREATH



NOTE: DO NOT INTERRUPT RHYTHM OF COMPRESSIONS  
WHEN SECOND PERSON IS GIVING BREATH

Call for medical assistance as soon as possible.

2. If victim is responsive.
  - a. keep them warm
  - b. keep them as quiet as possible
  - c. loosen their clothing  
(a reclining position is recommended)

## FIRST-AID

Personnel engaged in the installation, operation, maintenance or servicing of this equipment are urged to become familiar with first-aid theory and practices. The following information is not intended to be complete first-aid procedures, it is brief and is only to be used as a reference. It is the duty of all personnel using the equipment to be prepared to give adequate Emergency First Aid and thereby prevent avoidable loss of life.

### Treatment of Electrical Burns

1. Extensive burned and broken skin
  - a. Cover area with clean sheet or cloth. (Cleanest available cloth article.)
  - b. Do not break blisters, remove tissue, remove adhered particles of clothing, or apply any salve or ointment.
  - c. Treat victim for shock as required.
  - d. Arrange transportation to a hospital as quickly as possible.
  - e. If arms or legs are affected keep them elevated.

#### NOTE

If medical help will not be available within an hour and the victim is conscious and not vomiting, give him a weak solution of salt and soda: 1 level teaspoonful of salt and 1/2 level teaspoonful of baking soda to each quart of water (neither hot or cold). Allow victim to sip slowly about 4 ounces (a half of glass) over a period of 15 minutes. Discontinue fluid if vomiting occurs. (Do not give alcohol.)

2. Less severe burns - (1st & 2nd degree)
  - a. Apply cool (not ice cold) compresses using the cleanest available cloth article.
  - b. Do not break blisters, remove tissue, remove adhered particles of clothing, or apply salve or ointment.
  - c. Apply clean dry dressing if necessary.
  - d. Treat victim for shock as required.
  - e. Arrange transportation to a hospital as quickly as possible.
  - f. If arms or legs are affected keep them elevated.

REFERENCE: ILLINOIS HEART ASSOCIATION

AMERICAN RED CROSS STANDARD FIRST AID AND PERSONAL SAFETY MANUAL  
(SECOND EDITION)



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## SECTION I

### GENERAL DESCRIPTION

#### 1-1. INTRODUCTION

1-2. This Modification Technical Manual for the Updated Audio Input/PDM Control and Feedback Board contains instructions for the installation and checkout of the board. This Technical Manual is to be used when installing the new board in a MW-50A AM BROADCAST TRANSMITTER.



SECTION II  
INSTALLATION

2-1. INTRODUCTION

2-2. This section contains documentation for the installation and checkout of the new Audio Input/PDM Control and Feedback Board 1A2A2.

2-3. INSTALLATION

2-4. Installation instructions are as follows:

NOTE

Insure proper operation of transmitter and existing Audio Input/PDM Control and Feedback Board. Check frequency response and distortion to be within specification.

- a. Set Control and Low Volts Circuit Breaker 1A4CB5 to OFF.

**WARNING**

DISABLE AND LOCK OUT PRIMARY STATION POWER TO THE TRANSMITTER. USE GROUNDING STICK AND CHECK ALL COMPONENTS FOR ELECTRICAL POTENTIAL BEFORE TOUCHING ANY COMPONENT.

- b. Lower PDM Chassis 1A1 access door.
- c. Use grounding stick to discharge any residual potential from all exposed components.
- d. Remove the six (6) nuts and washers that secure the PDM Control and Feedback Board to the access door.
- e. Unsolder the wiring harness from the pc board connection points. Tag all wires as to the board position from which they were removed.
- f. Solder the wiring harness to the connections points on the new pc board, making sure the connections are correct per the following chart.

WIRE  
NUMBERS

TERMINAL  
LETTERS

1A2A2

3	I
4	J
8	K
9W	N
11W	M
12	L
13	C
16	E
17	D
18	F
20	A
21	B
39R	H*
39B	G*

- \* All PDM Cable wires (816 9160 001) go to the same points as on the old board with the exception of 39R and 39B which are transposed.
- g. Dress two 12-inch lengths of 18, 20, 22, or 25 gauge stranded insulated wire to the present PDM cable harness.
- h. Solder one end of the wires to terminals P and R on the new pc board. Solder the other ends of the wires to terminal 2 and 3 on the Modulation Enhancer pc board.

NOTE

For MW-50 Transmitters without the Modulation Enhancer the ac supply can be obtained from terminal board 1A1TBI-6 of the PDM chassis and relay 1A1K1 of the control unit. Because this source is not fused a 1/10 ampere, fast-blow fuse must be added to protect the new Audio board (the fuse and holder not furnished).

- i. Install the Modulation Enhancer safety shield and the new safety shield for terminals P and R on the new pc board.
- j. Compare values of resistor R20, capacitors C7 and C8 on the old pc board with resistor R54 and capacitors C39 and C40. If the values are different, remove components from the old board and use them to replace the components on the new board. This will insure flat frequency response.

NOTE

If further adjustment of frequency response is desired the value of resistor R54 of the new pc board may be varied to obtain the flattest overall frequency response.

- k. Position the new pc board on the six bolts and secure with the nuts and washers removed in step d.

2-5. AUDIO BOARD ADJUSTMENT. Ensure board controls are adjusted as outlined in paragraph 3-5a. Accomplish the following steps for adjustment:

- a. Complete normal transmitter start-up procedures, with no audio applied.
- b. Depress POWER HIGH switch and adjust HI POWER potentiometer R44 CW until normal high operating power is attained.
- c. Depress POWER LOW switch and adjust LO POWER potentiometer R45 CW until normal low operating power is attained.
- d. Set Modulation Enhancer operate/bypass switch to the bypass position.
- e. With the transmitter operating in the HIGH POWER configuration, apply +10 dB 300 Hz sinusoidal audio signal to the transmitter input and adjust INPUT GAIN potentiometer R11 for 100% modulation.
- f. Alternately remove and apply the +10 dB 300 Hz audio input signal while adjusting CARRIER SHIFT potentiometer R36 for no change in the carrier level, as indicated on the station modulation monitor.

NOTE

DUE TO DIODE NONLINEARITIES, A MODULATION TRACKING ADJUSTMENT WILL BE NECESSARY ON MOST TRANSMITTERS.

- g. Reduce the 300 Hz audio input level until 50% to 80% modulation is indicated on the station modulation monitor.
- h. Using the front panel POWER ADJUST raise/lower control, reduce transmitter power and monitor modulation level. Readjust RF input level if the station modulation monitor is not accurate over a wide range of power levels. If the modulation changes more than 1% for a 20% change in power level, adjust MODULATION TRACKING potentiometer R26 one turn CW. Because potentiometer R26 will vary absolute modulation levels, readjust audio input level or INPUT GAIN potentiometer R11 each time potentiometer R26 is adjusted. If CW adjustment of potentiometer R26 decreases

tracking accuracy, adjust potentiometer R26 CCW until proper power tracking accuracy is obtained. This is an iterative process and results will depend on modulation monitor accuracy, operator patience, and careful, deliberate adjustment. If proper power tracking accuracy cannot be obtained, connect a Volt/Ohm meter to pin 10 of integrated circuit U3 (under the tab) and adjust potentiometer R26 for 0.0 Vdc.

- i. Apply a +10 dB 300 Hz sinusoidal audio signal to the transmitter input and adjust INPUT GAIN potentiometer R11 for 100% modulation.
- j. Depress POWER LOW switch and adjust LO POWER AUDIO potentiometer R25 for 100% modulation.
- k. With no audio signal applied to the transmitter and plug P1 in any position in jack J1, adjust HUM NULL potentiometer R24 CW until a dip in noise measurement is noted. If noise increases or no dip is observed, adjust potentiometer R24 fully CCW and reposition plug P1 to another position in jack J1. Repeat the procedure until a dip in noise measurement is noted.
- l. With modulation on and transmitter operating in the HIGH POWER mode, adjust DISS LIMITER potentiometer R34 CCW until a slight reduction in PA PLATE VOLTS meter or POWER meter indication is noted. Readjust potentiometer R34 about 1/4 turn CW.

2-6. BESSEL FILTER ADJUSTMENT. The besseL filter as supplied with the Audio Board, has a 47k-ohm resistor network (R19), which will eliminate overshoot, but "roll-off" the transmitter at 10 kHz. Decreasing network resistance by replacing the 47k-ohm network with 39k-ohm, 33k-ohm, 27k-ohm or 22k-ohm networks, or by inserting fixed, 1/4W, 5% resistors of those values directly in the socket will move the transmitter's  $f_{-3\text{dB}}$  up in frequency. It is possible to reduce overshoot 50%, without affecting transmitter frequency response, by using a 27k-ohm resistor network.

2-7. LOW-FREQUENCY -3 DB POINT ADJUSTMENT. With inadequate processing, dc overload or erratic supply current may present a problem. If carrier shift under modulation is severe, check the output of the processing equipment with a dc coupled oscilloscope. The resulting oscilloscope base line should be steady. If the base line oscillates adjust the station processing equipment. If, however the processing equipment cannot be adjusted to produce a steady base line, capacitor C41 should be replaced with a lesser value to correct the problem.



## SECTION III

### MAINTENANCE

#### 3-1. INTRODUCTION

3-2. This section presents alignment procedures for the AUDIO INPUT/PDM CONTROL and FEEDBACK board.

3-3. Refer to MW-50A AM BROADCAST TRANSMITTER Technical Manual 888-1740-001 for maintenance and performance checks.

#### 3-4. AUDIO INPUT/PDM CONTROL - FEEDBACK BOARD

3-5. Align the Audio board as follows:

- a. Adjust the controls as follows prior to starting an alignment/adjustment procedure:
  1. INPUT GAIN potentiometer R11 fully CCW.
  2. CMRR potentiometer R18 fully CW.
  3. HUM NULL potentiometer R24 fully CCW.
  4. DISS LIMITER potentiometer R34 fully CW.
  5. CARRIER SHIFT potentiometer R36 midrange.
  6. LO POWER AUDIO potentiometer R25 midrange.
  7. MODULATION TRACKING potentiometer R26 midrange.
  8. HI POWER potentiometer R44 fully CCW.
  9. LOW POWER potentiometer R45 fully CCW.
  10. BESSEL FILTER IN/OUT switch set to the OUT position.

3-6. AUDIO BOARD ALIGNMENT. Ensure board controls are adjusted as outlined in paragraph 3-5. Accomplish the following steps for alignment:

- a. Apply power to the transmitter and depress FILAMENT ON switch.
- b. Check for the following voltages:
  1. - Transistor Q1 emitter,  $14.0 \pm 1.0V$ .
  2. - Transistor Q2 emitter,  $-14.0 \pm 1.0V$ .
- c. Jumper terminals G and H together and drive against ground using a low-distortion oscillator with an output impedance of 600 ohms or less.

- d. Connect an oscilloscope to pin 8 of integrated circuit U1-3.
- e. Adjust the oscillator output to 0 dBm at 60 Hz and adjust CMRR potentiometer R18 for null. Null depth must be greater than 60 dBm.
- f. Remove jumper between terminals G and H.
- g. Drive terminals G and H with a balanced sinusoidal signal at 0 dBm, 300 Hz and adjust MODULATION TRACKING potentiometer R26 for a null at pin 7 and 8 of integrated circuit U3.
- h. Energize relay K1 by switching transmitter to LOW POWER.
- i. Adjust LO POWER AUDIO potentiometer R25 for null at pin 7 and 8 of integrated circuit U3.

SECTION IV  
TROUBLESHOOTING

4-1. INTRODUCTION

4-2. Refer to figure 6-1 for schematic diagram of the Audio Input/PDM Control and Feedback board.

4-3. Refer to MW-50A AM BROADCAST TRANSMITTER Technical Manual 888-1740-001 for transmitter troubleshooting.

4-4. Prior to starting a troubleshooting procedure check all switches, power cord connections, connecting cables, and power fuses.

4-5. TECHNICAL ASSISTANCE

4-6. HARRIS Technical and Troubleshooting assistance is available from HARRIS Field Service Department 24 hours a day. Telephone 217/222-8200 to contact the Field Service Department or address correspondence to Field Service Department, HARRIS CORPORATION, Broadcast Products Division, P.O. Box 4290, Quincy, Illinois 62305-4290, USA. The HARRIS factory may also be contacted through a TWX facility (910-246-3312) or a TELEX service (40-4347).



## SECTION V

### PARTS LIST

#### 5-1. INTRODUCTION

5-2. This section provides a description, reference designator, and part number for replaceable electrical parts and assemblies necessary for proper maintenance of the Audio input and PDM Feedback module.

5-3. Refer to MW-50A AM BROADCAST TRANSMITTER Technical Manual 888-1740-001 for the other replacement parts information.

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Table 5-1. Audio Input Board 1A2A2 - 992 5898 001

REF. SYMBOL	HARRIS PART NO.	DESCRIPTION	QTY.
C1 thru C4	516 0074 000	Capacitor, .005 uF, 1 kV	4
C5 thru C9	500 0759 000	Capacitor, 100 pF, 500V	5
C10	500 0832 000	Capacitor, 360 pF, 500V	1
C11	500 0838 000	Capacitor, 560 pF, 300V	1
C12	500 0827 000	Capacitor, 130 pF, 500V	1
C13,C14	526 0097 000	Capacitor, 47 uF, 35V	2
C15,C16	526 0109 000	Capacitor, 22 uF, 20V	2
C17 thru C20	522 0524 000	Capcitor, 10 uF, 35V	4
C21	500 0840 000	Capacitor, 680 pF, 300V	1
C22 thru C27	516 0453 000	Capacitor, 0.1 uF, 100V	6
C28	500 0834 000	Capacitor, 430 pF, 500V	1
C29	516 0082 000	Capacitor, .01 uF, 1 kV	1
C30	516 0557 000	Capacitor, .47 uF, 12V	1
C31	526 0057 000	Capacitor, 100 uF, 20V	1
C32	526 0102 000	Capacitor, 150 uF, 6V	1
C33	522 0256 000	Capacitor, 20 uF, 50V	1
C34	526 0050 000	Capacitor, 1 uF, 35V	1
C35	522 0367 000	Capacitor, 25 uF, 25V	1
C37	608 0258 000	Capacitor, .001 uF, 600V	1
C38	508 0271 000	Capacitor, .025 uF, 100V	1
C39,C40	508 0408 000	Capacitor, 0.1 uF, 50V	2
C41	522 0523 000	Capacitor, 470 uF, 16V	1

Table 5-1. Audio Input Board 1A2A2 - 992 5898 001 (Continued)

REF. SYMBOL	HARRIS PART NO.	DESCRIPTION	QTY.
C44,C45,C46	500 0759 000	Capacitor, 100 pF, 500V	3
CR1	384 0663 000	Diode Bridge, VM28	1
CR2	386 0106 000	Diode, Zener, 1N4737	1
CR3,CR4	385 0082 000	Diode, Zener, 1N4744A	2
CR5 thru CR8	384 0205 000	Diode, 1N914	4
CR9	384 0663 000	Diode Bridge, VM28	1
J1	612 0904 000	Jack, PC Mount	1
K1	572 0127 000	Relay, 4PDT, 24 Vdc	1
L1,L2	494 0419 000	Choke, RF, 1000 uH	2
L3,L4	494 0199 000	Choke, RF, Dip, 2200 uH	2
P1	610 0679 000	Plug, Shorting	1
Q1	380 0125 000	Transistor, 2N4401	1
Q2	380 0126 000	Transistor, 2N4403	1
R1 thru R4	540 0889 000	Resistor, 110 ohms, 1/4W, 5%	4
R5	540 0908 000	Resistor, 680 ohms, 1/4W, 5%	1
R6,R7	540 0936 000	Resistor, 10k ohms, 1/4W, 5%	2
R8,R9	540 0984 000	Resistor, 1 Megohm, 1/4W, 5%	2
R10	540 0919 000	Resistor, 2k ohms, 1/4W, 5%	1
R11	550 0958 000	Potentiometer, 10k ohms, 1/2W, 10%	1
R12 thru R16	540 0936 000	Resistor, 10k ohms, 1/4W, 5%	5
R17	540 0935 000	Resistor, 9.1k ohms, 1/4W, 5%	1

Table 5-1. Audio Input Board 1A2A2 - 992 5898 001 (Continued)

REF. SYMBOL	HARRIS PART NO.	DESCRIPTION	QTY.
R18	550 0956 000	Potentiometer, 2k ohms, 1/2W, 10%	1
R19	540 1360 000	Resistor, Array, 47k ohms, 2%	1
R20	540 0935 000	Resistor, 9.1k ohms, 1/4W, 5%	1
R21,R22	540 0916 000	Resistor, 1.5k ohms, 1/4W, 5%	1
R23	540 0936 000	Resistor, 10k ohms, 1/4W, 5%	1
R24	550 0443 000	Potentiometer, 5k ohms, 1/2W, 20%	1
R25,R26	550 0958 000	Potentiometer, 10k ohms, 1/2W 10%	2
R27	540 0936 000	Resistor, 10k ohms, 1/4W, 5%	1
R28	540 0925 000	Resistor, 3.6k ohms, 1/4W, 5%	1
R29	540 0587 000	Resistor, 100 ohms, 2W, 5%	1
R30	540 0935 000	Resistor, 9.1k ohms, 1/4W, 5%	1
R31	540 0942 000	Resistor, 18k ohms, 1/4W, 5%	1
R32	540 0922 000	Resistor, 2.7k ohms, 1/4W, 5%	1
R33	540 0905 000	Resistor, 510 ohms, 1/4W, 5%	1
R34	550 0626 000	Potentiometer, 10k ohms, 1/2W, 10%	1
R35	540 0929 000	Resistor, 5.1k ohms, 1/4W, 5%	1
R36	550 0623 000	Potentiometer, 5k ohms, 1/2W, 10%	1
R37	540 0599 000	Resistor, 330 ohms, 2W, 5%	1
R38	540 0872 000	Resistor, 22 ohms, 1/4W, 5%	1
R39	540 0922 000	Resistor, 2.7k ohms, 1/4W, 5%	1



Table 5-1. Audio Input Board 1A2A2 - 992 5898 001 (Continued)

REF. SYMBOL	HARRIS PART NO.	DESCRIPTION	QTY.
R40	540 0916 000	Resistor, 1.5k ohms, 1/4W, 5%	1
R41	540 0904 000	Resistor, 470 ohm, 1/4W, 5%	1
R42	540 0878 000	Resistor, 39 ohms, 1/4W, 5%	1
R43	540 0628 000	Resistor, 5.1k ohms, 2W, 5%	1
R44,R45	550 0976 000	Potentiometer, 25k ohms, 3/4W	2
R46	540 0912 000	Resistor, 1k ohm, 1/4W, 5%	1
R47	540 0933 000	Resistor, 7.5k ohms, 1/4W, 5%	1
R48	540 0936 000	Resistor, 10k ohms, 1/4W, 5%	1
R49	540 0912 000	Resistor, 1k ohm, 1/4W, 5%	1
R50	540 0936 000	Resistor, 10k ohms, 1/4W, 5%	1
R51	540 0928 000	Resistor, 4.7k ohms, 1/4W, 5%	1
R52	540 0912 000	Resistor, 1k ohm, 1/4W, 5%	1
R53	540 0930 000	Resistor, 5.6k ohms, 1/4W, 5%	1
R54	540 0899 000	Resistor, 300 ohms, 1/4W, 5%	1
R55	540 0587 000	Resistor, 100 ohms, 2W, 5%	1
R56,R57	540 0912 000	Resistor, 1k ohm, 1/4W, 5%	2
R58	540 0953 000	Resistor, 51k ohms, 1/4W, 5%	1
R59	540 0908 000	Resistor, 680 ohms, 1/4W, 5%	1
R60	540 0936 000	Resistor, 10k ohms, 1/4W, 5%	1
S1	602 0143 000	Switch, Level, DPDT, DIP	1
T1	472 0713 000	Transformer, Power	1

Table 5-1. Audio Input Board 1A2A2 - 992 5898 001 (Continued)

REF. SYMBOL	HARRIS PART NO.	DESCRIPTION	QTY.
U1	382 0552 000	Integrated Circuit, TL074CN3	1
U2	382 0636 000	Integrated Circuit, TL071CP3	1
U3	382 0711 000	Integrated Circuit, A0534-JH	1
XK1	404 0214 000	Socket, Relay	1
XR19	404 0675 000	Socket, Integrated Circuit, 16 Contact	1
XU3	404 0303 000	Socket, Integrated Circuit, 10 Pin	1
	943 3781 001	Printed-Circuit Board	

SECTION VI

DIAGRAMS

6-1. INTRODUCTION

6-2. This section provides a schematic diagram for the PDM Control and Feedback Board.

6-3. Refer to MW-50A AM BROADCAST TRANSMITTER Technical Manual 888-1740-001 for the other schematics and wire running lists.



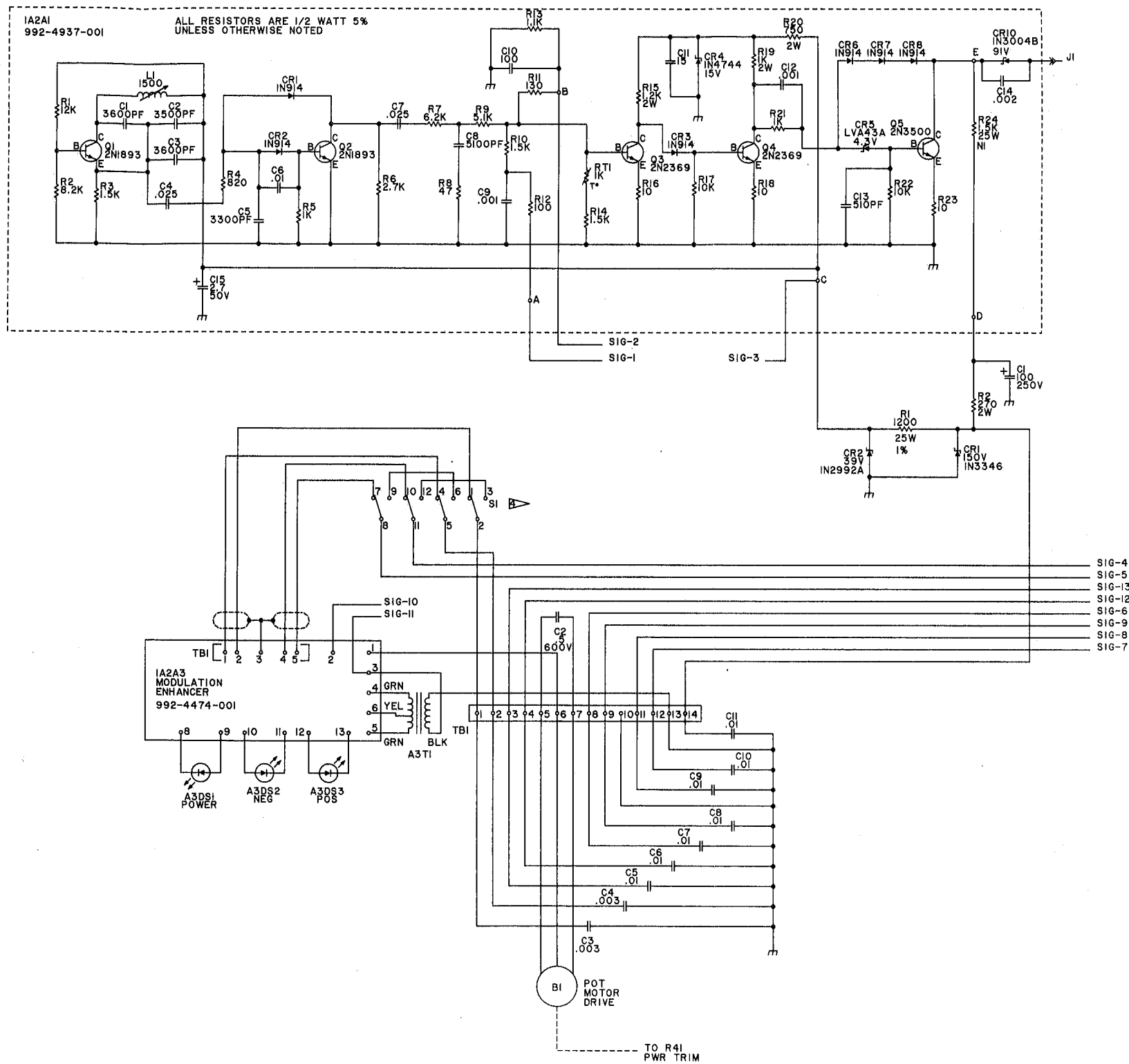
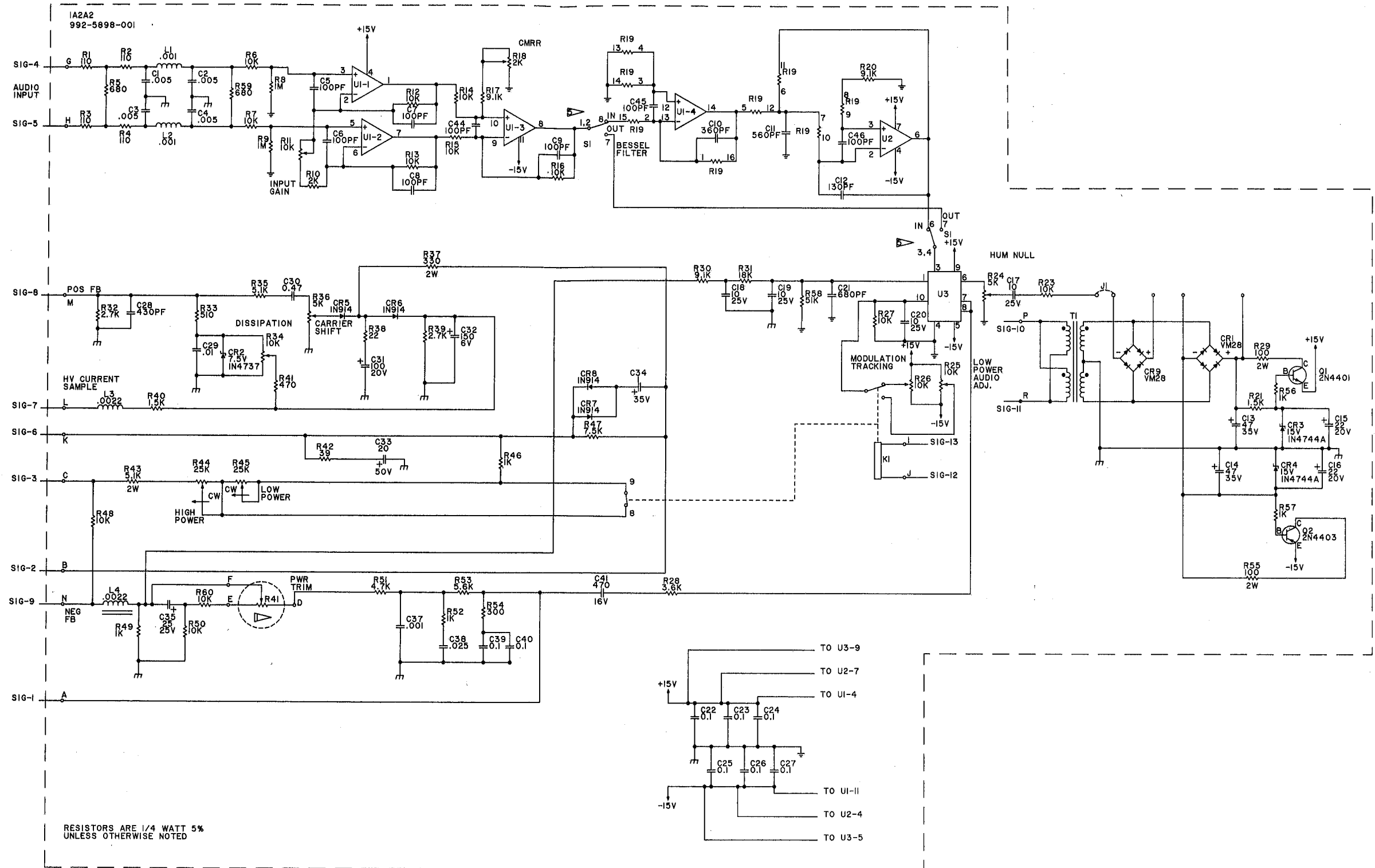


FIGURE 6-1. PDM CHASSIS/AUDIO BOARD  
(SHEET 1 OF 2)  
852 8925 001



2. IC IDENTIFICATION:  
 U1 - TL074CN3  
 U2 - TL071CP3  
 U3 - AD534JH

▷ NOT ON BOARD, PART OF POT MOTOR DRIVE.

FIGURE 6-1. PDM CHASSIS/AUDIO BOARD  
 (SHEET 2 OF 2)  
 852 8925 001