RCA

Broadcast Equipment

TT-30FL
VHF TV Transmitter

ES-560615

Installation Instructions

IB-8027540

EQUIPMENT LOST OR DAMAGED IN TRANSIT

When delivering the equipment to you, the truck driver or carrier's agent will present a receipt for your signature. Do not sign it until you have (a) inspected the containers for visible signs of damage and (b) counted the containers and compared with the amount shown on the shipping papers. If a shortage or if evidence of damage is noted, insist that notation to that effect be made on the shipping papers before you sign them.

Further, after receiving the equipment, unpack it and inspect thoroughly for concealed damage. If concealed damage is discovered, immediately notify the carrier, confirming the notification in writing, and secure an inspection report. This item should be unpacked and inspected for damage WITHIN 15 DAYS after receipt. Report all shortages and damages to RCA, Commercial Electronic Systems Division – Camden, New Jersey 08102.

RCA will file all claims for loss and damage on this equipment so long as the inspection report is obtained. Disposition of the damaged item will be furnished by RCA.

FIELD ENGINEERING SERVICE

RCA Field Engineering Service is available at current rates. Requests for field engineering service may be addressed to your RCA Broadcast Field Representative or the RCA Service Company, Incorporated – Broadcast Service Division – Camden, New Jersey 08102. Telephone 609-963-8000.

WARRANTY ITEMS

Particular parts and/or equipment covered by warranty are specifically stated as such in the warranty or contract given to the customer at the time of sale. The warranty or contract also stipulates the conditions under which the warranty may be exercised.

To obtain a new replacement for such warranty items, contact your local RCA sales office and please supply Product Identification (including the Original Invoice Number, MI Number, Type Number, Model Number, and Serial Number) and Replacement Part Identification (including Stock Number and Description). Requests for warranty replacements may be unduly delayed if all this information is not supplied.

REPLACEMENT PARTS

When ordering replacement parts, please give Stock or Master Item (MI) Number, Description, and Symbol of each item ordered.

The part which will be supplied against an order for a replacement item may not be an exact duplicate of the original part. However, it will be a satisfactory replacement differing only in minor mechanical or electrical characteristics. Such differences will in no way impair the operation of the equipment.

Emergency Service:

For emergency service after working hours, contact RCA Parts and Accessories, Telephone 609-963-8000 or 609-848-5900.

LOCATION	ORDERING INSTRUCTIONS
Continental United States, including Alaska and Hawaii	Replacement Parts bearing a STOCK NUMBER should be ordered from RCA Parts and Accessories – 2000 Clements Bridge Road – Deptford, New Jersey 08096. Replacement Parts bearing a MASTER ITEM (MI) NUMBER should be ordered from RCA, Commercial Electronic Systems Division – Attention Commercial Service – Camden, New Jersey 08102 or your nearest RCA Regional Office. Replacement Parts with NO STOCK or MASTER ITEM (MI) NUMBER are standard components. They are not stocked by RCA and should be obtained from your local electronics distributor.
Dominion of Canada	Order from your local RCA Sales Representative or his office or from: RCA Victor Company Limited, 1001 Lenoir Street, Montreal, Quebec.
Outside of Continental United States, Alaska, Hawaii, and the Dominion of Canada	Order from your local RCA Sales Representative or from: RCA International Division, Clark, New Jersey – U.S.A. – Wire: RADIOINTER **Emergency:** Cable RADIOPARTS, DEPTFORD, N.J.

RETURN OF ELECTRON TUBES

If for any reason it is desired to return tubes, please return them through your local RCA tube distributor, RCA Victor Company Limited, or RCA International Division, depending on your location.

Please do not return tubes directly to RCA without authorization and shipping instructions.

It is important that complete information regarding each tube (including type, serial number, hours of service and reason for its return) be given. When tubes are returned, they should be shipped to the address specified on the Return Authorization form. A copy of the Return Authorization and also a Service Report for each tube should be packed with the tubes.

LOCATION	ORDERING INSTRUCTIONS
Continental United States, including Alaska and Hawaii	Local RCA Tube Distributor.
Dominion of Canada	Order from your local RCA Sales Representative or his office or from: RCA Victor Company Limited, 1001 Lenoir Street, Montreal, Quebec.
Outside of Continental United States, Alaska, Hawaii, and the Dominion of Canada	Local RCA Tube Distributor or from: RCA International Division, Clark, New Jersey, U.S.A., Wire: RADIOINTER **Emergency:** Cable RADIOPARTS, DEPTFORD, N.J.

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Installation Instructions

TT-30FL
VHF TV Transmitter

ES-560615

Commercial Electronic Systems Division/Front and Cooper Streets/Camden, New Jersey, U.S.A., 08102

EMERGENCY
FIRST AID INSTRUCTIONS

WARNING

VOLTAGES THAT ARE DANGEROUS TO LIFE ARE INVOLVED IN THE OPERATION OF THIS ELECTRONIC EQUIPMENT. OPERATING PERSONNEL MUST AT ALL TIMES OBSERVE ALL SAFETY REGULATIONS. DO NOT CHANGE TUBES OR MAKE ADJUSTMENTS INSIDE THE EQUIPMENT WITH VOLTAGES APPLIED. DANGEROUS CONDITIONS MAY EXIST IN CIRCUITS WITH POWER CONTROLS IN THE OFF POSITION DUE TO CHARGES RETAINED BY CAPACITORS, ETC. ALWAYS DISCHARGE AND GROUND CIRCUITS PRIOR TO TOUCHING THEM TO AVOID PERSONAL INJURY OR LOSS OF LIFE.

Personnel engaged in the installation, operation, or maintenance of this equipment or similar equipment are urged to become familiar with the following rules both in theory and practice. It is the duty of all operating personnel to be prepared to give adequate Emergency First Aid and thereby prevent avoidable loss of life.

RESCUE BREATHING

GENERAL INFORMATION

A. START IMMEDIATELY, SECONDS COUNT

Do not move victim unless absolutely necessary to remove from danger. Do not wait or look for help or stop to loosen clothing. Warm the victim or apply stimulants. The main purpose is to GET AIR INTO THE VICTIM'S LUNGS.

B. WIPE OUT VICTIM'S MOUTH

Wipe out quickly any mucus, food, or any foreign matter in the victim's mouth using your fingers or a cloth wrapped around your fingers.

C. LOOSEN CLOTHING - KEEP WARM

Do this when the victim is breathing by himself or help is available. Keep him quiet as possible and from becoming chilled. Otherwise, treat him for shock.

D. DON'T GIVE UP

Continue emergency rescue breathing without interruption until victim is breathing without help or until all hope of reviving him as determined by a physician is gone.

E. CALL A PHYSICIAN

Have someone summon medical aid since respiratory and other disturbances may develop as a aftermath. A physician is necessary during the recovery period.

PROCEDURE

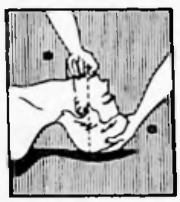

FIG. A

FIG. B

FIG. C

TILT HEAD BACK - Lift neck and point chin up to open air passage.

EXTEND JAW - Pull or push jaw into jutting out position (Fig. A).

PINCH NOSE - Close nostrils to prevent air leakage, or close mouth when using mouth-to-nose breathing.

BLOW - Seal victim's mouth or nose with your mouth. (Fig. B) Blow until chest rises.

REMOVE MOUTH - Listen for exchange of air; if none, check throat for obstruction. To remove it, place victim in position shown in Fig. C, and slap sharply between shoulder blades.

REPEAT - 12 times per minute for adults; at least 20 times per minute for children.

BURNS

SKIN REDDENED: Apply ice cold water to burned area to prevent burn from going deeper into skin tissue. Cover area with clean sheet or cloth to keep away air. Consult a physician.

SKIN BLISTERED OR FLESH CHARRED: Apply ice cold water to burned area to prevent burn from going deeper into skin tissue. Cover area with clean sheet or cloth to keep away air. Treat victim for shock and take to Hospital.

EXTENSIVE BURN-SKIN BROKEN: Cover area with clean sheet or cloth to keep away air. Treat victim for shock and take to hospital.

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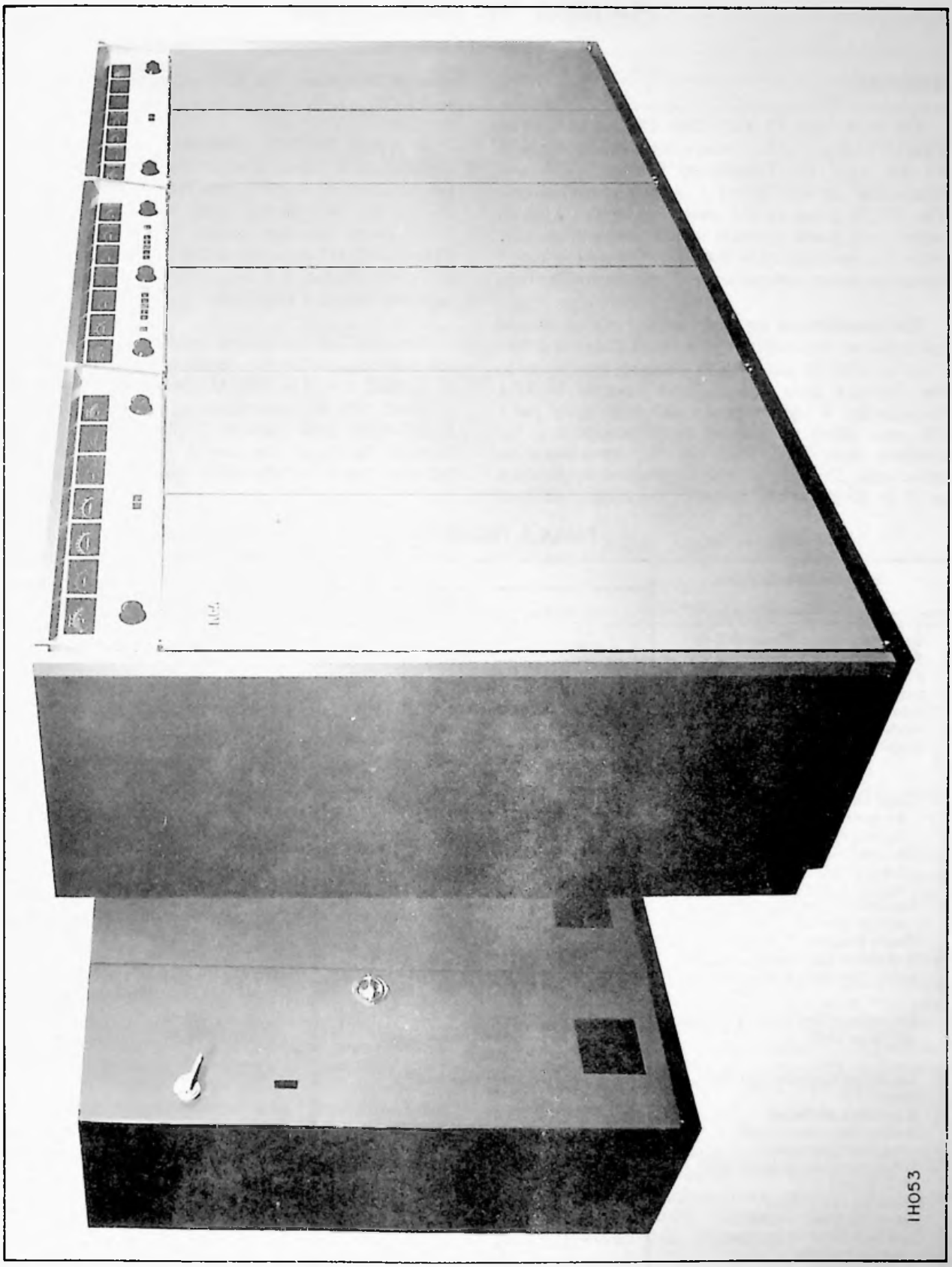


Figure 1. TT-30FL VHF TV Transmitter

PLANNING THE INSTALLATION

GENERAL

The RCA Type TT-30FL VHF TV Transmitter (see Figure 1) consists of two independent, parallel operated 15 kW VHF TV Transmitters (Transmitter A and Transmitter B) each having a separate control circuit. The TT-30FL has an R-F switching capability which permits half power operation with one transmitter in the event of a malfunction in the other. One-quarter power operation occurs automatically if one transmitter fails.

The transmitter is designed for color or monochrome operation on United States of America Channels 2 thru 6 (54 to 88 MHz), and on CCIR standards as indicated in the Technical Data and contracts accepted by RCA Corporation. A high definition AM visual signal and a FM aural signal are generated and controlled in accordance with CCIR, FCC, and EIA transmission requirements. The peak of sync visual power output range is 15 to 30 kW at the output of the vestigial sideband filter or filterplexer. The aural output power range is 1.8 to 7.5 kW.

A typical TT-30FL installation includes as major components a Control Cabinet MI-560576, two Amplifier Cabinets MI-560577, two Power Supply Cabinets MI-560578, two Blower Units MI-560579-A and B, TTS-1 Delay Equalizer System ES-560651, Harmonic Filters MI-27317-A and MI-27318-B, Vestigial Sideband Filter MI-19085-A, R-F Output Combining and Switching Equipment and Test Loads.

Electrical and mechanical specifications and power line requirements for the complete system are presented in TABLE 1 – TECHNICAL DATA. The equipment supplied with the transmitter is listed in TABLE 2 – EQUIPMENT LIST ES-560615. The weights and dimensions of the major components in the transmitter are listed in TABLE 3 – WEIGHTS AND DIMENSIONS.

TABLE 1. TECHNICAL DATA

Electrical Specifications	RCA	
	Visual	Aural
Type of Emission	A5	F3
Frequency Range (Channels 2-6)		
Rated Power Output	15 to 30 kW[1]	1.8 to 7.5 kW
RF Output Impedance	50 ohms	50 ohms
Input Impedance	75 ohms	600/150 ohms
Input Level	1.0 volts P-P	+10 ±2. dBm
Amplitude vs. Frequency Response, Aural		±1 dB, 30 Hz to 15 kHz of 50 usec or 75 usec pre-emphasis response curve.
Visual Sideband Response:		
At carrier +0.5 MHz to 2.1 MHz	+0.75 dB[2]	
At carrier +3.58 MHz	+0.75 dB[2]	
At carrier -0.5 MHz	+0, -1 dB[2]	
Between +2.0 MHz and +4.18 MHz relative to +3.58 MHz response	±0.75 dB[3]	
Variation in Frequency Response with Brightness[4]	±0.75 dB	
Carrier Frequency Stability[5]	±500 Hz	±500 Hz
Modulation Capability	10%	±50 kHz
Audio Frequency Distortion		0.5% max[6] (30-15,000 Hz)
FM Noise (below ±25 kHz deviation)		-60 dB
AM Noise RMS	-50 dB below sync level	-50 dB
Amplitude Variation over one picture frame	Less than 2.5%[7]	
Regulation of Output	3%	
Burst vs Subcarrier Phase[8]	±3°	
Subcarrier Amplitude[8]	0.7 dB	
Subcarrier phase vs Brightness[9] (diff. phase)	±3°	
Linearity (Diff. Gain)[10]	0.7 dB	
Linearity (Low Frequency)	1.0 dB	
Envelope Delay vs Frequency[11]		
0.2 to 2.0 MHz	±80 ns	
at 3.58 MHz	±40 ns	
at 4.18 MHz	±80 ns	
Harmonic and Spurious Radiation[12]	-80 dB	-80 dB

TABLE 1. TECHNICAL DATA (Continued)

Electrical Specifications	RCA	
	Visual	Aural
Power Line Requirements		
AC Line Input		208/240 or 380/460 volts, 3-phase, 50/60 Hz (power consumption given below), and 115 volts, single phase, 50/60 Hz (100 watts).
Slow Line Variations		±5% max.
Rapid Line Variations		±3% max.
Phase Unbalance		2% max.
Regulation		3% max.
Power Consumption (at 30 Kw peak visual & 7.5 kW aural output)		
Average Picture		47 kW
Black Picture		68 kW
Power Factor (approx.)		90%
Mechanical Specifications		
Overall length (front lines cabinets)		136.25 inches (346.1 cm)
Overall height (cabinets)		77 inches (195.58 cm)
Depth (without doors)		30 inches (76.2 cm)
Power Supply Cabinets		2 required
Length		44 inches (111.8 cm)
Depth		33.5 inches (85.1 cm)
Height		77 inches (195.58 cm)
Finish – two-tone blue, brushed aluminum trim		
Environmental Specifications		
Maximum Altitude		7,500 feet (2286 m)
Ambient Temperature		-20°C to 45°C (-4°F to 113°F)

NOTE:

1. Measured at output of vestigial sideband filter or filterplexer.

2. With respect to response at carrier plus 200 kHz, as measured with the BW-5C sideband response analyzer at transmitter mid-characteristics.

3. Measured at output of VSBF. Add -0.75 dB at +4.18 MHz if filterplexer or notch diplexer is employed.

4. Measured at 75% and 25% of sync peak level with respect to response at transmitter mid-characteristic.

5. Maximum variation without circuit adjustment over a period of 30 days and over an ambient temperature range of -20°C to 45°C.

6. Including harmonics up to -20 kHz and measured with standard de-emphasis network.

7. Measured at blanking level.

8. Maximum departure from theoretical when reproducing saturated primary colors and their complements at 75% amplitude.

9. Maximum phase difference with respect to burst, measured after the VSBF, for any brightness level between 75% and 15% of the sync peak using 10% (peak-to-peak) modulation.

10. Maximum variation in the amplitude of a 3.58 MHz sine wave modulating signal as the brightness level is varied between 75% and 15% of sync peak. The gain shall be adjusted for 10% (peak-to-peak) modulation of the 3.58 MHz signal when the brightness is at pedestal level. This equivalent to 10% (peak-to-peak) modulation as indicated by a conventional BW-4C1 TV demodulator connected after the VSBF.

11. Maximum departure from standard curve. The tolerances vary linearly between 2.1 and 3.58 and 4.18 MHz. To meet the specification a properly terminated phase correction network, ES-560651 is required in the video input circuit of the transmitter.

12. Ratio of any single harmonic or spurious frequency to peak visual power.

TABLE 2. EQUIPMENT LIST ES-560615 (DOMESTIC)

Quantity	Description	Reference
1	Control Unit	MI-560576
2	Amplifier Unit	MI-560577
2	Power Supply Unit	See Note
	Note: Select to suit customer's power line:	
	208/240 Volts, 50/60 Hz	MI-560578
	380/460 Volts, 50/60 Hz	MI-560578-1
2	20 Watt Solid State Amplifier Unit	ES-560617
2	Solid State Video Modulator Unit	ES-560618
2	5 Watt Solid State Exciter Unit	ES-560622
1	Blower Unit – Top Horizontal Discharge	MI-560579-A
1	Blower Unit – Bottom Horizontal Discharge	MI-560579-B
2	HV Plate Transformer	See Note
	Note: Select to suit customer's power line:	
	208/240 Volts, 50/60 Hz	
	Manufactured by Electro Engrg.	MI-560581
	Manufactured by Magnatran, Inc.	MI-560581-A
	380/460 Volts, 50/60 Hz	
	Manufactured by Electro Engrg.	MI-560828
	Manufactured by Magnatran, Inc.	MI-560828-A
2	IHV Plate Transformer	See Note
	Note: Select to suit customer's power line:	
	208/240 Volts, 50/60 Hz	
	Manufactured by Electro Engrg.	MI-560582
	Manufactured by Magnatran, Inc.	MI-560582-A
	380/460 Volts, 50/60 Hz	
	Manufactured by Electro Engrg.	MI-560829
	Manufactured by Maganatran, Inc.	MI-560829-A
2	Filter Reactor Assembly	MI-560583
6	Constant Voltage Transformer, 60 Hertz	MI-560584
2	Distribution Transformer	See Note
	Note: Select to suit customer's power line:	
	208/240 Volts, 50/60 Hz	MI-560580
	380/460 Volts, 50/60 Hz	MI-560830
1	Installation Material	MI-560585
1	Wiring Material	MI-560586
1	Door, LH Front with Trade Mark	MI-560587-1
*	Door, LH Front, Universal with RCA Logotype	MI-560375-2
2	Door, LH Front, Plain	MI-560587-2
*	Door, Universal Front	MI-560375-1
3	Door, RH Front	MI-560587-3
1	Set of Side Panels (LH & RH End Shields)	MI-560373
1	Set of Tubes	ES-560619
**	25 kW Visual Test Load	MI-19267-L
**	40 kW Notch Diplexer	MI-561531
**	50 kW Diplexer	MI-19391
1	Harmonic Filter (Aural)	See Note
	Note: Seicct to suit customer's channel:	
	Channel 2	MI-27317A-2
	Channels 3 & 4	MI-27317A-3
	Channels 5 & 6	MI-27317A-5
1	Harmonic Filter (Visual)	See Note
	Note: Select to suit customer's channel:	
	Channel 2	MI-27318B-2
	Channels 3 & 4	MI-27318B-3
	Channels 5 & 6	MI-27318B-5
1	Finish Touch-Up Kit	MI-27660-C
1	Miscellaneous Hardware Kit	MI-560479
1	Tool Kit	MI-560448
1	Nameplate	MI-28180-A
	Note: To be engraved according to information supplied by sales & the example outlined below:	
	TYPE: TT-30FL SERIAL:	
	OUTPUT: 30,000 WATTS FREQ: Channel	

TABLE 2. EQUIPMENT LIST ES-560615 (DOMESTIC) (Continued)

Quantity	Description	Reference
1	Set of Installation Drawings	3721160-501
2	Instruction Book, Installation	IB-8027540
2	Instruction Book, Operating	IB-8027541
1	Vestigial Sideband Filter (VSBF)	See Note
	Note: Select to suit customer's channel:	
	Channel 2	MI-19085A-L2
	Channel 3	MI-19085A-L3
	Channel 4	MI-19085A-L4
	Channel 5	MI-19085A-L5
	Channel 6	MI-19085A-L6
**	Filterplexer	See Note
	Note: Supply Qty 1 instead of VSBF, if specified by sales order:	
	Channel 2	MI-19179A-L2
	Channel 3	MI-19179A-L3
	Channel 4	MI-19179A-L4
	Channel 5	MI-19179A-L5
	Channel 6	MI-19179A-L6
3	Reject Load 5 kW	MI-560820
3	1-5/8" Coaxial Transfer Switch	MI-561583
3	3-1/8" Coaxial Transfer Switch	MI-561562
1	1-5/8" Coaxial Coupler (Aural)	MI-561536-A
1	3-1/8" Coaxial Coupler (Visual)	MI-561532
1	Manual Transfer Panel (7 Ports)	MI-27912-51
1	TTS-1 Delay Equalizer System	ES-560651
**	Control Console Equipment (TTC-5B)	ES-561900
**	Input & Monitoring Equipment	ES-19237-K
***	Transmission Line & Fittings 3-1/8", 50 Ohms	MI-27791-K
***	Transmission Line & Fittings 1-5/8", 50 Ohms	MI-561565
**	Set of 100% Spare Tubes	ES-560619
**	Set of Minimum Spare Tubes	ES-560621
1	Frequency Determining Components (Exciter Switcher)	See Note
	Note: Select to suit customer's channel:	
	Channel 2	MI-560462-2
	Channel 3	MI-560462-3
	Channel 4	MI-560462-4
	Channel 5	MI-560462-5
	Channel 6	MI-560462-6
****	Wire Duct Components	MI-560598
1	Module Extender	MI-560541
1	Reflectometer Unit, Combined Visual	MI-560463-6
2	Reflectometer Unit, Visual PA Output	MI-560464-4
1	Reflectometer Unit, Combined Aural	MI-560465-6
2	Reflectometer Unit, Aural PA Output	MI-560466-4
3	Directional Coupler	MI-19396-1B
3	Monitoring Diode	MI-19051-B
2	R-F Monitoring Assembly	MI-560822-1
%	Installation Tools	MI-560852
1	Frequency Determining Components (Amplifier)	See Note
	Note: Select to suit customer's channel:	
	Channel 2	MI-560862-2
	Channel 3	MI-560862-3
	Channel 4	MI-560862-4
	Channel 5	MI-560862-5
	Channel 6	MI-560862-6
30	Coupling assembly 3-1/8"	MI-27791-K-4A
16	Elbow 90° 3-1/8"	MI-27791-K-2A
14	Elbow 90° 1-5/8"	MI-561565-2A
20	Coupling Assembly 1-5/8"	MI-561565-4A

NOTES:

*A complete set of front doors consists of MI-560587-1, -2, and -3 in quantities shown, for a total of six (6) doors. When stock is depleted, supply quantity 1 of MI-560375-2 and quantity 5 of MI-560375-1, for a total of six (6) doors.

**Optional Equipment. Supply if and as specified by sales order.

***Quantities and items as specified by sales order.

****If power supply units are located other than as shown in typical floor plan, select additional wire duct components from MI-560598 as required.

%Supply items on MI-560852, if and as specified by sales order.

TABLE 3. WEIGHTS AND DIMENSIONS

Description	Reference	Weight (lbs.)		Shipping Dimensions (In.)		
		Gross	Net	Height	Width	Depth
Control Cabinet	MI-560576	782	650	84	40-1/2	54-1/4
Amplifier Cabinet	MI-560577	440	305	84	40-1/2	54-1/4
Power Supply Cabinet	MI-560578	940	810	84	40-1/2	54-1/4
High Voltage Plate Transformer	MI-560581	590	535	28-3/4	20-3/4	30-3/4
Intermediate High Voltage Plate Transformer	MI-560582	606	572	24	27-1/2	38
Filter Reactor Assembly	MI-560583	258	226	20-3/4	23-1/2	26
Constant Voltage Transformer	MI-560584					
Distribution Transformer	MI-560580	344	316	16-5/8	21	25-7/8
Harmonic Filter (Aural) 473726	MI-27317A	(SEE DRAWING NO. 8008060)				
Harmonic Filter (Visual) 473725	MI-27318B	(SEE DRAWING NO. 8008075)				
Reject Load	MI-560820	82	77	35	18	12

SCOPE

ic step in the installation of the TT-30FL transis to plan the equipment layout and make ons for the necessary utilities and external conis. After the necessary space is available, the ment can be unpacked, assembled, and wired as fied. This instruction book covers the necessary tallation details but does not include electrical testing or detailed tuning or adjustments. The latter operations are included in the Operating Instruction Book, IB-8027541.

Since some of the optional and associated items include their own instruction books, the installation procedure for such units will not be repeated. Instead, reference should be made to the instruction books (IB's) accompanying such equipment. These books are:

Monitoring Diode	IB-36114-1
Vestigial Sideband Filter	IB-36146-1
Harmonic Filter	IB-36223
TTC-5C Control Console	IB-30259-1
Directional Couplers	IB-36271

It is not intended that these instructions shall supersede any applicable local codes. Where the instructions in this book conflict with any local electrical, construction, or building code, the provisions of the applicable local code should be followed.

INFORMATION FOR CONTRACTORS

Every station using the RCA type TT-30FL transmitter must be treated as an individual case. Some flexibility of arrangement is permissible to meet the special needs of each station such as building size and types of architectural detail. Many details therefore must be decided at the site and rely on the judgment of experienced contractors for an economical and satisfactory installation. The application of local codes will necessarily have to be left to the discretion of the contractors.

The contractors should study a complete set of up-to-date electrical and mechanical installation drawings as listed in TABLE 4 – INSTALLATION DRAWINGS (3721160-501) and supplied with the equipment. THE DRAWINGS REPRODUCED IN THIS BOOK SHOULD BE USED FOR GENERAL REFERENCE ONLY. To facilitate handling and installation, dimensional data and weights for the major units of the transmitter are listed in Table 3.

TABLE 4. INSTALLATION DRAWINGS (3721160-501)

Qty.	Description	Drawing or Specification
1	Outline, TT-30FL	3477331
1	Installation & Floor Plan TT-30FL	3477327
1	Schematic Diagram, Control Unit	3476723
1	Schematic Diagram, Power Supply Unit	3474214

TABLE 4. INSTALLATION DRAWINGS (3721160-501) (Continued)

Qty.	Description	Drawing or Specification
1	Schematic Diagram, Amplifier Cabinet	3476780
1	Schematic Diagram, Visual PA	3740020
1	Schematic Diagram, Screen Supply	3474348
1	Schematic Diagram, Power Supply Cabinet	3477320
1	Schematic Diagram, Visual Modulated Amplifier	3740019
1	Schematic Diagram, Aural IPA and PA	3474271
1	Schematic Diagram, AFC/REF. Osc. Module	3477311
1	Schematic Diagram, FM Osc. Module	3477313
1	Schematic Diagram, Multiplier Module	3477315
1	Schematic Diagram, 5 W Amplifier Module	3477317
1	Schematic Diagram, Power Supply 5 W Exciter	3477321
1	Schematic Diagram, Meter Panel	3476781
1	Schematic Diagram, Multiplier Module	3477312
1	Schematic Diagram, Video Input Module	3474200
1	Schematic Diagram, Video Processing Module	3476763
1	Schematic Diagram, Video Amplifier & Output Module	3474224
1	Schematic Diagram, Power Supply Modulator	3477323
1	Wiring Diagram, Visual and Aural Auto Switcher	3474364
1	Schematic Diagram, Exciter Switching Panel	3477326
1	Schematic Diagram, 20 W RF Amplifier	3477314
1	Schematic Diagram, 20 W RF Amplifier	3477316
1	Schematic Diagram, Driver Control Module	3459938
1	Schematic Diagram, Power Supply, 20 W	3477325
1	Interconnection Diagram, EBS	3732130
1	Wire Chart, Inter-Cabinet, R-F Switching Control and Remote Control	3732114
1	Wire Chart, Power Supply Cabinet	3732117
1	Wire Chart, Control Cabinet	3732118
1	Wire Chart, Amplifier Cabinet	3732119
1	Interconnection Table, Visual Modulator	3732903
1	Interconnection Table, 20 W Amplifier	3732902
1	Interconnection Table, 5 W Exciter	3732901
1	Outline, Harmonic Filter MI-27317-A	8008060
1	Outline, Harmonic Filter MI-27318-B	8008075
1	Outline, Directional Coupler Assembly MI-19369-1B	479070
1	Outline, Vestigial Sideband Filter MI-19085A-L	8008054
1	Outline, R-F Transfer Switch 3-1/8" MI-561562	8001781
1	Outline, R-F Transfer Switch 1-5/8" MI-561583	8008162
1	Outline, Coupler 3 dB Hybrid MI-561536-A	8001400
1	Outline, Coupler 3 dB Hybrid MI-561532	8494372
1	Outline, 7 Port R-F Panel	8008106
1	Outline, R-F Load MI-19267-L	8003223
1	Outline, R-F Load MI-560820	3471760
1	Outline, Reflectometer 3-1/8"	3720405
1	Outline, Reflectometer 1-5/8"	3720402
1	Outline, Distribution Transformer MI-560580	3732112
1	Outline, HV Transformer MI-560581	3732110
1	Outline, HV Transformer MI-560582	3732106
1	Outline, HV Transformer MI-560581-A	3732108
1	Outline, HV Transformer MI-560582-A	3732109
1	Outline, Reactor Assembly MI-560583	3721132
1	Outline, Blower MI-560579-A/B	3732104

Power Requirements

Three-phase power at 208 or 240 Volts AC nominal (380 or 460 Volts AC nominal, optional) with no more than ±5% total regulation and variation is required for operation of the TT-30FL VHF TV Transmitter. The input to each of the 15 kW Transmitters has a demand of approximately 34 kW at black picture, making a total demand of 68 kW for a TT-30FL. This demand is at a power factor of 90% lagging. These figures do not include the R-F switching or auxiliary cooling loads such as the Vestigial Sideband Filter or Filterplexer, blowers or load cooling fans. If the redundancy of the TT-30FL design is to be continued to the power source, two-separate breakers from two separate feed sources may be utilized. If power system redundancy is not required, a single disconnect may be used for each 15 kW Transmitter. Each transmitter (240 VAC feed) has a disconnect circuit breaker with the following trip characteristics:

Thermal Trip	125 Amperes
Adjustable Magnetic Trip	65 – 1250 Amperes
Asymmetrical Interrupt Rating	30,000 Amperes
Symmetrical Interrupt Rating	25,000 Amperes

The circuit breaker trip characteristic or fusing curve selected ahead of the 15 kW Transmitter must fall beyond this trip characteristic times the number of 15 kW Transmitters being fed. In planning the sub-station bank of transformers feeding the TT-30FL Transmitter, sufficient KVA capacity must be provided so that the three-phase bank of transformers is not rated less than 173% of the peak demand of the entire power plant, so that in the event of a failure of one single-phase transformer at the sub-station, emergency operation may be obtained by reconnecting the transformer bank in open delta.

Equipment Layout

A typical floor plan for layout of the transmitter is shown on drawing 3477327 (see Figure 2). This drawing does not provide a suggested location for the optional station monitoring equipment or the console. The following precautions and restrictions should be observed when planning the installation:

1. The room in which the transmitter is to be installed should be well-ventilated and have an abundant supply of clean, dry air. The maximum ambient temperature is listed under TABLE 1 – TECHNICAL DATA.

2. Minimum access clearance should be three feet at the rear of the console.

3. Two feet clearance is recommended at the front and rear of the station monitoring equipment.

4. The position of R-F monitoring units, monitoring diode, and directional couplers should be chosen to facilitate adjustment of the couplers, tuning of the diode units, and wiring to the transmitter cabinet.

The building facilities of the station must provide sufficient air supply to the blower intake. Ductwork external to the transmitter is not supplied. The dimensions and locations of the air intake and exhaust openings are shown on drawing 3477331 (see Figure 3).

The arrangement of the input and monitoring equipment should permit the shortest interconnections between units in the racks. The TTC-5C Control Console may be placed at any convenient position without adverse effects on the transmitter operation. The most satisfactory means of interconnection and power wiring is made through overhead ducts MI-560598.

Other factors to be considered in layout are incoming power lines, accessibility of a good station ground, and the route for the transmission line to the antenna. Accommodations for other equipment, living quarters, storage space, shop facilities, etc., are not provided on the typical layout and will have to be designed to suit the special needs of the customer.

Ventilation Requirements

The transmitting room for the TT-30FL Transmitting Equipment should be well ventilated. The maximum ambient operating temperature is contained in TABLE 1 – TECHNICAL DATA. A fan (minimum capacity 5000 CFM) and discharge air ducts are recommended for exhausting air from the top of the transmitter cabinets.

When re-circulation of air is desired, the discharge ducts should be provided with a bypass duct and a return damper mechanism. The orifice arrangement to the intake filter should be regulated so that the correct proportion of cold outside air and warm inside air are mixed for re-circulation.

If any area in the transmitter room is to be air conditioned, it is generally more economical to enclose the transmitter and to ventilate it with outside air, thus relieving an excessive burden from the air conditioning equipment.

TABLE 5. TRANSMITTER VENTILATION REQUIREMENTS

Elevation (Ft.)	Blower Intake (CFM)
0	980
2500	1075
5000	1077
7500	1292

TABLE 6. BLACK PICTURE HEAT LOAD DATA

Unit	Dissipation (kW)	CFM	Temperature Range (F°)	Exhaust (BTU/Min)	Cabinet Radiation BTU/Min
Amplifier Cabinet MI-560577					50
Aural Exhaust	2.0	80	79	115	
Visual Exhaust	11.0	600	58	625	
Exhaust Fan	3.0	270	35	171	
SUB TOTAL	32.0	1,900	53	1,822	100
Control Cabinet MI-560576 (Convection through louvered top)	0.6	50	38	34	2
SUB TOTAL	0.6	50	38	34	2
Power Supply Cabinet MI-560578					
Exhaust Fan	4.0	254		228	23
SUB TOTAL	8.0	254	50	456	46
SUB TOTAL – VSBF, Lines and Others	–	–	–	–	60
TOTAL	40.6	2,458	53	2,312	208

Data on the transmitter ventilating air requirements is provided in TABLE 5 – TRANSMITTER VENTILATION REQUIREMENTS. The capacities given in Table 5 are based on one exhaust port at a remote point in the operating room. This ventilation is for cooling the transmitter only. Additional cooling should be provided for the personnel area in the room. The exhaust fan must be able to circulate enough air to maintain the room temperature below 45°C (113°F). Additional information on the individual cabinets in the transmitter are presented in TABLE 6 – BLACK PICTURE HEAT LOAD DATA.

Wiring Layout

In general, the wiring material furnished serves to interconnect and ground the transmitter. Material required for connection to the optional units, such as the console and the station monitoring equipment, is not supplied. Wire charts, sheets 1 through 24 of drawing 3732114 (see Figure 4), indicate all connections to be made.

Separate disconnect switches and power leads must be supplied for the power lines listed under TABLE 1 – TECHNICAL DATA. In particular, the crystal ovens require a separate 115-volt line so that the ovens may be energized 24 hours a day without interruption.

Disconnect switches and wiring must be provided for such items as the transmitter room monitoring racks. The tower lighting circuit should also be planned, although no material is provided for this item. If the control console is utilized, the contactor in the tower lighting circuit can be connected to the corresponding switch on the console panel.

Adequate illumination should be planned, with a switch or dimming rheostat provided for lights in the console area. If silicon controlled rectifiers are used in the dimming circuits, care should be exercised to prevent formation of spikes on the power distribution circuits. These spikes could be introduced into the video or audio amplifier or transmitter crystal heater circuits.

Overhead power, 115-volts AC, must be run to the R-F Monitoring Diodes as shown on the wire charts. In addition, overhead coaxial leads must be connected from the monitoring diodes and the R-F monitoring units to their respective monitoring points. Similar leads must be provided for the probes of external units such as the BW-4C1 Demodulator, BW-5C Sideband Response Analyzer, and other monitoring items requiring such connections.

In addition, a separate circuit should be planned to satisfy one of the requirements of the Emergency Broadcast System (EBS). During times of a national emergency, television stations will transmit an Emergency Action Notification Signal, which includes removing the aural (sound) carrier for a specified duration of time. Provisions have been included in the transmitter for momentarily disabling the aural carrier. All that is required is an external switch and/or relay circuit which, when activated, will apply ground to pin 12 of plug 20P12 located on the 5 W Exciter ES-560622 chassis.

Transmission Line Layout

The visual (3-1/8") and aural (1-5/8") output transmission lines terminate at the top of each Amplifier Cabinet MI-560577 (A and B). The transmission line and fittings (MI-27791-K and MI-561565) required to com-

plete the transmission line runs from the Aural and Visual Coaxial Transfer Switches (MI-561583 and MI-561562, respectively) to the Harmonic Filters (MI-27317-A and MI-27317-B) are not supplied (with the exception of the reflectometer units and monitoring assemblies) and must be ordered separately.

A typical transmission line layout is illustrated on Drawing No. 3477327 (see Figure 2). As shown on this drawing, three Visual Coaxial Transfer Switches MI-561562 must be installed in the visual transmission line preceding the Visual Harmonic Filter MI-27318-B. Also, three Aural Coaxial Transfer Switches MI-561583 must be installed in the aural transmission line preceding the Aural Harmonic Filter MI-27317-A. In addition, Reflectometer Units MI-560466, Item 4 must be installed in the transmission line runs between the aural outputs of the amplifier cabinets and Aural Coaxial Transfer Switches S4 (Port 2) and S6 (Port 3). Also Reflectometer Units MI-560466, Item 4, Monitoring Diodes MI-19051-B, and Directional Couplers MI-19396-1B must be installed in the transmission line runs between the visual outputs of the amplifier cabinets and Visual Coaxial Transfer Switches S1 (Port 2) and S3 (Port 3).

An Aural Coaxial Coupler MI-561536 is supplied for mounting to Aural Coaxial Transfer Switches S4 (Ports 1 and 4) and S6 (Port 4) and Aural Reject Load MI-560820. A Reject Load is also supplied for use as an aural test load and is connected to aural coaxial Transfer Switch S5 (Port 4). Visual Coaxial Coupler MI-561532 is supplied for mounting to Visual Coaxial Transfer Switches S1 (Ports 1 and 4) and S3 (Port 4) and Visual Reject Load MI-560820.

The transmission line runs from the Aural and Visual Coaxial Transfer Switches (S5 and S2, respectively) to the harmonic filters and beyond is the responsibility of the respective station and must be ordered separately. A Reflectometer Unit MI-560465, Item 6 (Drawing No. 3720402, figure 24) must be installed in the aural transmission line following the Aural Harmonic Filter MI-27317A and preceding the Manual Transfer Panel MI-27912-21 and 50 kW Diplexer MI-19391. An outline drawing of the harmonic filter is shown on Drawing No. 8008060 (see Figure 13).

A Reflectometer Unit MI-560463, Item 6 (Drawing No. 3720405, Figure 23) and a Monitoring Assembly MI-560822, Item 1 must be installed in the visual transmission line following the Visual Harmonic Filter MI-27318-B and preceding the Vestigial Sideband Filter MI-19085-A or Filterplexer MI-19179-A (optional), manual transfer panel, and diplexer. An outline drawing of the vestigial sideband filter is shown on Drawing No. 8008054 (see Figure 16). Drawing No. 8008075 (see Figure 14) illustrates the outline of the harmonic filter. A Directional Coupler MI-19396 (Drawing No. 479070, Figure 15) must be installed between the output of the vestigial sideband filter and the manual transfer panel. Also a 25 kW Visual Test Load MI-19267 (Drawing No. 8003223, Figure 21), is installed to a port on the manual transfer panel.

If there is less than 8 inches clearance between the ceiling and the horizontal run between the transmitter outputs and the vestigial sideband filter or filterplexer (optional), 90° elbows must be installed in the line to facilitate line assembly and disassembly. Minimum ceiling height for this installation should be 8 feet if the vestigial sideband filter or filterplexer (optional) is not located above the transmitter.

To support the transmission line from the transmitter building up to the antenna, hangers of various types will be required.

UNPACKING

GENERAL

When the equipment is delivered the carrier will present a shipping receipt for signature. This receipt should not be signed without first inspecting each container for visible damage and counting the number of containers for comparison with the amount shown on the shipping papers. If visible damage is apparent or a shortage exists, a notation to that effect should be made on the shipping papers before signing. Then file the proper claim with the carrier.

After unpacking the equipment inspect all items for concealed damage. If concealed damage is apparent, notify the carrier immediately in writing, and insist upon an inspection and report. File a claim for the damage. All shipping papers, letters, and invoices should be saved until certain that the equipment was delivered in good condition or until any damage claim has been adjusted satisfactorily.

An understanding of the overall shipping system will be of assistance in unpacking the equipment and locating items. Each RCA equipment is accompanied by a shipping voucher which lists the complete contents of the shipment by "master item" or "MI" numbers. This shipping voucher is usually packed in one of the smaller cardboard cartons, appropriately marked.

Where more than one item is listed on an MI, a sub-division or "item" number is listed after the MI number. Thus, a component might carry the designation, "MI-99999, item 2." This indicates that the part is "item 2" on the MI-99999 list. In addition, when the MI

consists of many individual items, the MI may refer to a list of parts for identification of the components. In such cases, the item numbers refer to items listed on the reference list of parts. The MI sheets are essentially packing lists and are packed with the equipment. Where there are two or more boxes to a major unit, the box containing the MI sheet is identified by stenciling. Thus, it is possible to identify the contents of each box and plan the overall uncrating systematically.

The MI sheets, as noted, are merely packing lists and are of value only in locating items for assembly. The MI sheets should not be used for installation sequence nor for installation details.

The equipment may now be unpacked. Tubes should not be unpacked until required. All items listed on the MI sheets should be located before crates or boxes are destroyed, to avoid loss of small items overlooked during unpacking.

ASSEMBLY

GENERAL

Performing the various assembly operations in the proper sequence will facilitate installation of the transmitter equipment. Refer to Drawing No.'s 3477327 and 3477331 (see Figures 2 and 3, respectively) for details in assembling the TT-30FL Transmitter. Note that the components are identified on the drawings by MI and item numbers. The necessary hardware is supplied as MI-560479. The general sequence for assembly should be as follows:

1. Install all transmitter units except the transmitter cabinets in their designated positions.

2. Place the five transmitter cabinets in position and install their components into their designated positions.

3. Install and connect the plumbing for the water to the 25 kW Visual R-F Load MI-19267-L (optional item).

4. Install wire ducts and the 3-inch copper ground strap in the cabinet wire duct and between cabinets, High Voltage components, and station ground.

5. Install the wiring in the cabinets, external units, and ducts.

6. Install transmission lines and units in the lines.

7. Connect power and coaxial wiring to the units in the transmission lines.

8. Complete the installation by installing the doors, end shields, and miscellaneous items.

EXTERNAL UNITS

Perform the following operations to connect the external units:

1. Vestigial Sideband Filter MI-19085A-L: Mount in selected position.

2. Manual Transfer Panel MI-27912-51: Mount in selected position.

3. Coaxial Transfer Switches MI-561562 (visual) and MI-561583 (aural): Mount in selected position and attach Terminal Boxes MI-560585, Item 9 to switches S3 and S6.

4. Harmonic Filters MI-27317A and MI-27318B: Mount in selected position.

5. 5 kW Reject Load MI-560820: Mount in selected position.

TRANSMITTER ASSEMBLY

Perform the following procedures to assemble the transmitter:

1. Position Amplifier Cabinet (A) MI-560577 (Prefix 1) in its designated position.

2. Position Control Cabinet MI-560576 (Prefix 2 and 3) and bolt securely to amplifier cabinet (A).

3. Position Amplifier Cabinet (B) MI-560577 (Prefix 4) and bolt securely to the control unit.

4. Position Power Supply Cabinet (A) MI-560578 (Prefix 5) directly behind amplifier cabinet (A). Maintain a minimum distance of 45.5 inches between the cabinets.

5. Position Power Supply Cabinet (B) MI-560578 (Prefix 6) directly behind amplifier cabinet (B) and also maintain the minimum distance of 45.5 inches between cabinets.

NOTE: Refer to IB-8027541 – Operating Manual for a pictorial presentation of positioning the components in steps 6 and 7.

6. Remove the 3-inch base sections of each power supply cabinet and slide the HV Plate Transformer MI-560581, IHV Plate Transformer MI-560582, and Filter Reactor Assembly MI-560583 in their designated positions on the floor of each Power Supply Cabinet. Replace the 3-inch base section upon completion.

7. Install 3-Constant Voltage Transformers MI-560584 and a Distribution Transformer MI-560580 on the shelf of each power supply cabinet.

> **NOTE:** Check the tension of the blower belts using TENSIOMETER Model 150, MI-560585, Item 8 and adjust the blowers for the proper altitude before performing step 8.

8. Remove the air filters and 3-inch base sections at the rear of Control Unit MI-560576 and slide Blower Unit MI-560579-A into Prefix 2 side of Control Unit and Blower Unit MI-560579-B into Prefix 3 side of Control Unit. Connect blowers to air ducts. Replace 3-inch base sections and air filters upon completion of wiring.

9. Install the solid-state modules into their proper positions in the module frame assemblies (see Drawing No. 3477327 – View A, Figure 2).

10. Assemble two wire ducts using adaptors (item 2), 90° elbows (item 3), ducts (item 4), and connectors (item 5) of MI-560585 and mounted in selected position.

WIRING

Equipment Grounding

WARNING

> Great care should be taken to provide an adequate ground system for the transmitter to prevent possible injury to personnel or equipment damage.

Install the static grounds between all units of the transmitter and station ground as illustrated on sheet 12 of wire chart 3732114 (see Figure 4). Three-inch wide copper strap is supplied as item 5 of MI-560586 for grounding the system. All ground connections should be made to unpainted surfaces.

After the ground connections have been completed, check each ground connection for continuity. If any soldered joints are involved, each should be tested for mechanical strength as well as continuity.

Special Tools

The special tools required to properly install the contacts, ferrules, and cables to the connectors on the solid-state module frame assemblies are listed in Table 7. The Manufacturer's Bulletins on each of the listed tools are included in the Operating Instruction Manual IB-8027541.

TABLE 7. RECOMMENDED SPECIAL TOOLS

Name	MI Number	Drawing Number
Extraction Tool	560852-1	8484870-1
Extraction Tool	560852-2	3721168-1
Crimping Tool	560852-3	3721168-2
Crimping Tool	560852-4	3721168-3
Crimping Tool	560852-5	3721168-4
Crimping Tool	560852-6	3721168-5

Equipment Wiring

Wiring the equipment is accomplished by first making the connections between the cabinets and the cabinet extensions using the preformed cable assembly and then completing the connections between the transmitter cabinets and the external items.

Each connection designation contains a prefix which can be used in establishing the correct routing of the wiring. The prefix and their associated units are as follows:

1 – Amplifier Cabinet MI-560577 – Transmitter A.
2 – Control Cabinet MI-560578 – Transmitter A.
3 – Control Cabinet MI-560578 – Transmitter B.
4 – Amplifier Cabinet MI-560578 – Transmitter B.
5 – Power Supply Cabinet MI-560578 – Transmitter A.
6 – Power Supply Cabinet MI-560578 – Transmitter B.
50 – Exciter Switching Panel.
7 & 60 – VSWR Protection Unit.
70 – R-F Coaxial Transfer Switches.

Wiring material is supplied as part of the installation material, Drawing No. MI-560586. When cutting cable designed for conduit runs, allow for a slight excess in length. This not only minimizes chances of a cable being too short but also facilitates the forming of individual cables.

To complete the transmitter wiring, refer to the wire charts, Drawing No. 3732114 (Figure 4), and proceed as follows:

WARNING

> Before making any connections, operate all switches and circuit breakers to OFF. This will prevent possible injury or equipment damage if the incoming power switch is closed accidentally.

1. Install and connect the preformed cable assembly between the transmitter cabinets. The individual connections for this cable are shown as Note 2 on wire chart (3732114).

2. Install all "black" wire which is routed through overhead wire duct and connects high-voltage com-

ponents in the power supply cabinets with the amplifier and control cabinets.

3. Install the RG213U coaxial cable which is routed through the overhead ducts and connects the Amplifier Cabinets to power supply cabinets. The individual connections for the wiring are shown on sheet 4 and 8 of wire chart (3732114).

4. Install all "black" wire which connects the components in the Transmitter A amplifier cabinet (Prefix 1) to the control cabinet (Prefix 2).

5. Install all "black" wire which connects the components in the Transmitter B amplifier cabinet (Prefix 4) to the control cabinet (Prefix 3).

6. Install all "black" wire which is connected internally and between the amplifier cabinets, control cabinets and power supply cabinets.

7. Install all "black," coaxial and 19-conductor cable wires which connect the components in the Transmitter A amplifier and control cabinets with the exciter switching panel (Prefix 50).

8. The wiring from the transmitter units to the external units should be completed only after the transmission lines have been installed and the units mounted in their proper positions. Refer to sheets 8 thru 16 of wire chart (3732114) for these connections.

9. Complete the wiring to the high voltage transformer, intermediate high voltage transformer, filter reactor assembly, constant voltage transformers and distribution transformers on the power supply cabinets. The individual connections for these lines are on Drawing No. 3732117 (see Figure 7).

10. Complete the wiring to the blower units in the control cabinet, the individual connections for these lines are on Drawing No. 3732118 (see Figure 5).

11. Finally, install the AC input lines to the AC MAIN LINE circuit breakers 5S1 (6S1), utility outlets and crystal oven power supplies. When installing the 230 VAC power lines, a thin-wall bending tool may be used for placing permanent bends in the wire.

12. At this time, connections should be made for any tower lighting or auxiliary circuits by connecting the appropriate switches at the desired locations. Wire for these circuits is not provided. In particular a customer supplied relay or switch should be inserted between terminals 1E76 and 1E78, which will apply ground to pin 12 of 20P12 on the 5 Watt Exciter chassis for use in connection with the Emergency Broadcast System (EBS).

TRANSMISSION LINES

Install the aural transmission line from the amplifier cabinets (Prefix 1 and 4) to the Aural Coaxial Transfer Switches MI-561583. Note that Reflectometer Units MI-560466-4 must be mounted in the line. Mount the Aural Coaxial Coupler MI-561536 and install the transmission lines from the coaxial transfer switches to the coupler and also from the 5 kW Reject Load MI-560820 to the coupler. Install the transmission line from the second Reject Load MI-560820 to the coaxial transfer switches. Finally, install the transmission line between the switches. As the various units of the transmission line are connected, hangers of various types should be used to support the line.

Install the transmission line from the aural coaxial transfer switch to the Harmonic Filter MI-27317-A and then to the Manual Transfer Panel MI-27912-51. Finally, connect the 50 kW Diplexer MI-19391 (optional) to the manual transfer panel. Note that Reflectometer Unit MI-560465-6 must be mounted in the line between the harmonic filter and manual transfer panel.

In a similar manner, install the visual transmission line from Amplifier Cabinets (Prefix 1 and 4) to the Visual Coaxial Transfer Switches MI-561562. Note that Reflectometer Units MI-560464-4, Monitoring Diodes MI-19051-B, and Directional Couplers MI-19396-1B must be mounted in the line. Mount the Visual Coaxial Coupler MI-561532 and install the transmission lines from the coaxial transfer switches to the coupler and also from the 5 kW Reject Load MI-560820 to the coupler. Finally install the transmission lines between the coaxial transfer switches.

Install the transmission lines from the coaxial transfer switches to the Harmonic Filter MI-27318-B and to the Manual Transfer Panel MI-27912-51. Then install the transmission line from the harmonic filter to the Vestigial Sideband Filter MI-19085-A. Note that Reflectometer Unit MI-560463-6 and Monitoring Assembly MI-560822-1 must be mounted in the line. Finally install the transmission line from the vestigial sideband filter to the manual transfer panel mounting a directional coupler MI-19396-1B and a Monitoring Assembly MI-560822-1 in the line.

Connect the power and coaxial leads to the R-F monitoring units, monitoring diodes, reflectometers, and coaxial transfer switches mounted in the transmission lines. In addition, make the interlock and power connections to the vestigial sideband filter, reject loads. Refer to wire charts for these connections.

REMOTE CONTROL AND METERING

Remote control provisions are included in the transmitter and terminals are provided for use with various remote control units. Additional terminals are also

provided for remote metering functions. For a complete list of remote control and meter functions, refer to tables 8 and 9 and sheets 17 thru 23 of the wire chart.

CIRCUIT TESTING

CAUTION

Temporarily short-circuit all meters in the transmitter or disconnect one side of each meter to prevent meter damage.

After completion of all wiring, check the connections for accuracy, using a buzzer, battery, and long leads or the low scale of an ohmmeter. In addition, perform a complete "point-to-point" check of the wiring contained in the power supply circuits to ensure that these circuits are properly wired.

MISCELLANEOUS ITEMS

1. If not previously accomplished, install side panels MI-560373 on the sides of amplifier cabinets A and B. Also install the left and right-hand doors MI-560587-1, -2, and -3 on the front of the cabinets.

2. Use the finish touch-up kit MI-27660-C for retouching any scratches incurred in the exterior finish during installation.

3. Then remove the shipping wedges from the high voltage contactor and other components where applicable. In addition, remove all identification tags and cloth tapes which have been used to retain various components.

ITEMS NOT TO BE USED

Due to the adjustment and tuning procedures required after assembly (refer to Operating Instruction Manual, IB-8027541), the tubes for the transmitter should not be installed until indicated during tuning and operation.

TABLE 8. REMOTE CONTROL FUNCTIONS

Remote Control Functions							Indicator		
		Connect		Connect		Terminal Voltage	Connect Between		Terminal Voltage
No.	Function	Terminal	Terminal	Terminal	Terminal		Terminal	Terminal	
1	Transmitter A ON	2E53	2E11	–	–	115 VAC	2E61	2E12	115 VAC
2	Transmitter A OFF	2E52	2E11	–	–	115 VAC	2E59	2E12	115 VAC
3	Transmitter A AIR ON	–	–	–	–	–	2E60	2E12	115 VAC
4	Transmitter A INTERLOCKS CLOSED	–	–	–	–	–	2E62	2E12	115 VAC
5	Transmitter A PLATE VOLTAGE READY	–	–	–	–	–	2E63	2E12	115 VAC
6	Transmitter A PLATE VOLTAGE ON	2E57	2E11	–	–	115 VAC	2E65	2E12	115 VAC
7	Transmitter A PLATE VOLTAGE OFF	2E56	2E11	–	–	115 VAC	2E64	2E12	115 VAC
8	Transmitter A OVERLOAD	–	–	–	–	115 VAC	2E66	2E12	115 VAC
9	Transmitter A OVERLOAD RESET	2E58	2E11	–	–	115 VAC	–	–	–
10	Transmitter A AURAL EXCITATION INCREASE	1E46	2E82	1E47	2E81	28 VDC	–	–	–
11	Transmitter A AURAL EXCITATION DECREASE	1E46	2E81	1E47	2E82	28 VDC	–	–	–
12	Transmitter A VISUAL EXCITATION INCREASE	1E48	2E82	1E49	2E81	28 VDC	–	–	–
13	Transmitter A VISUAL EXCITATION DECREASE	1E48	2E81	1E49	2E82	28 VDC	–	–	–
14	Transmitter A PEDESTAL LEVEL INCREASE	1E54	2E82	1E55	2E81	28 VDC	–	–	–
15	Transmitter A PEDESTAL LEVEL DECREASE	1E54	2E81	1E55	2E82	28 VDC	–	–	–
16	Transmitter A VIDEO GAIN INCREASE	1E50	2E82	1E51	2E81	28 VDC	–	–	–
17	Transmitter A VIDEO GAIN DECREASE	1E50	2E81	1E51	2E82	28 VDC	–	–	–
18	Transmitter A SYNC GAIN INCREASE	1E52	2E82	1E53	2E81	28 VDC	–	–	–
19	Transmitter A SYNC GAIN DECREASE	1E52	2E81	1E53	2E82	28 VDC			

TABLE 8. REMOTE CONTROL FUNCTIONS (Continued)

Remote Control Functions							Indicator		
No.	Function	Connect		Connect		Terminal Voltage	Connect Between		Terminal Voltage
		Terminal	Terminal	Terminal	Terminal		Terminal	Terminal	
20	Transmitter B AURAL EXCITATION INCREASE	4E46	3E82	4E47	3E81	28 VDC	–	–	–
21	Transmitter B AURAL EXCITATION DECREASE	4E46	3E81	4E47	3E82	28 VDC	–	–	–
22	Transmitter B VISUAL EXCITATION INCREASE	4E48	3E82	4E49	3E81	28 VDC	–	–	–
23	Transmitter B VISUAL EXCITATION DECREASE	4E48	3E81	4E49	3E82	28 VDC	–	–	–
24	Transmitter B PEDESTAL LEVEL INCREASE	4E54	3E82	4E55	3E81	28 VDC	–	–	–
25	Transmitter B PEDESTAL LEVEL DECREASE	4E54	3E81	4E55	3E82	28 VDC	–	–	–
26	Transmitter B VIDEO GAIN INCREASE	4E50	3E82	4E51	3E81	28 VDC	–	–	–
27	Transmitter B VIDEO GAIN DECREASE	4E50	3E81	4E51	3E82	28 VDC	–	–	–
28	Transmitter B SYNC GAIN INCREASE	4E52	3E82	4E53	3E81	28 VDC	–	–	–
29	Transmitter B SYNC GAIN DECREASE	4E52	3E81	4E53	3E82	28 VDC	–	–	–
30	Transmitter B AURAL SCREEN INCREASE	4E56	3E82	4E57	3E81	28 VDC	–	–	–
31	Transmitter B AURAL SCREEN DECREASE	4E56	3E81	4E57	3E82	28 VDC	–	–	–
32	Transmitter A AURAL SCREEN INCREASE	1E56	2E82	1E57	2E81	28 VDC	–	–	–
33	Transmitter A AURAL SCREEN DECREASE	1E56	2E81	1E55	2E82	28 VDC	–	–	–
34	Transmitter A EXCITER POWER ON	–	–	–	–	–	2E38	2E12	115 VAC
35	Transmitter A BIAS ON VISUAL MOD. AMP.	–	–	–	–	–	2E13	2E12	115 VAC
36	BLANK								
37	MANUAL EXCITER SW.	50E34	50E27	–	–	115 VAC	50E30	50E26	115 VAC
38	AUTOMATIC EXCITER SW.	50E33	50E27	–	–	115 VAC	50E29	50E26	115 VAC

TABLE 8. REMOTE CONTROL FUNCTIONS (Continued)

Remote Control Functions							Indicator		
		Connect		Connect		Terminal Voltage	Connect Between		Terminal Voltage
No.	Function	Terminal	Terminal	Terminal	Terminal		Terminal	Terminal	
39	EXCITER "A"	50E32	50E27	–	–	115 VAC	50E19	50E26	115 VAC
40	EXCITER "B"	50E31	50E27	–	–	115 VAC	50E28	50E26	115 VAC
41	Transmitter Mode I (A and B)	50E48	50E47	–	–	28 VDC	50E51	50E52	115 VAC
42	Transmitter Mode II (A-AIR; B-TEST)	50E49	50E47	–	–	28 VDC	50E53	50E52	115 VAC
43	Transmitter Mode III (A-TEST; B-AIR)	50E50	50E47	–	–	28 VDC	50E54	50E40	115 VAC
44	EXCITER FAILURE ALARM	–	–	–	–	–	50E10	50E11	DRY CIRCUIT
45	Transmitter A AMPLIFIER CABINET OVER-TEMPERATURE ALARM	–	–	–	–	–	1E119	1E120	DRY CIRCUIT
46	Transmitter A AURAL EXHAUST OVER-TEMPERATURE ALARM	–	–	–	–	–	1E115	1E116	DRY CIRCUIT
47	Transmitter A VISUAL EXHAUST OVER-TEMPERATURE ALARM	–	–	–	–	–	1E117	1E118	DRY CIRCUIT
48	Transmitter B ON	3E53	3E11	–	–	115 VAC	3E61	3E12	115 VAC
49	Transmitter B OFF	3E52	3E11	–	–	115 VAC	3E59	3E12	115 VAC
50	Transmitter B AIR ON	–	–	–	–	–	3E60	3E12	115 VAC
51	Transmitter B INTERLOCKS CLOSED	–	–	–	–	–	3E62	3E12	115 VAC
52	Transmitter B PLATE VOLTAGE READY	–	–	–	–	–	3E63	3E12	115 VAC
53	Transmitter B PLATE VOLTAGE ON	3E57	3E11	–	–	115 VAC	3E65	3E12	115 VAC
54	Transmitter B PLATE VOLTAGE OFF	3E56	3E11	–	–	115 VAC	3E64	3E12	115 VAC
55	Transmitter B OVERLOAD	–	–	–	–	–	3E66	3E12	115 VAC
56	Transmitter B OVERLOAD RESET	3E58	3E11	–	–	115 VAC	–	–	–

TABLE 8. REMOTE CONTROL FUNCTIONS (Continued)

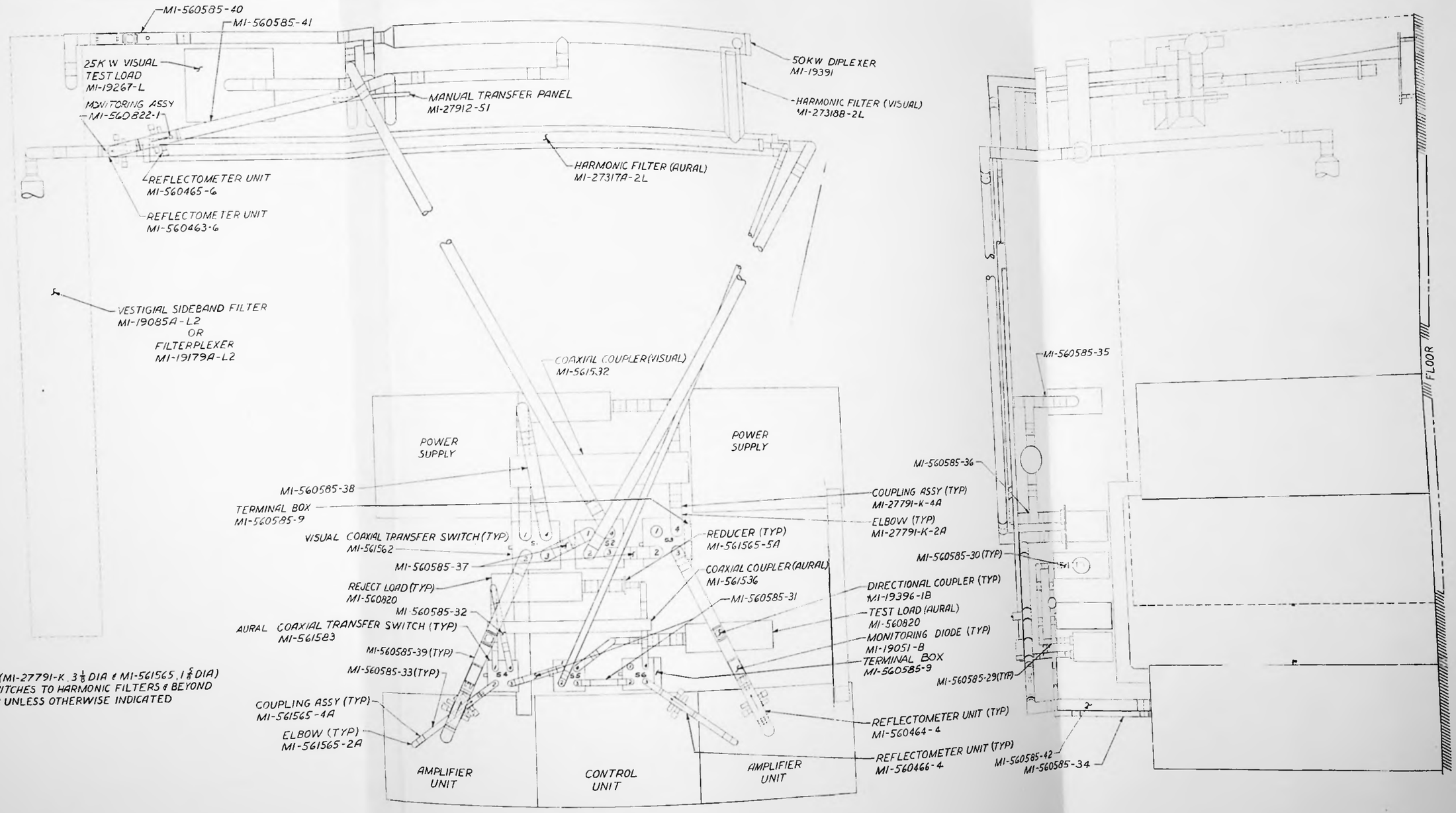
Remote Control Functions							Indicator		
		Connect		Connect		Terminal Voltage	Connect Between		Terminal Voltage
No.	Function	Terminal	Terminal	Terminal	Terminal		Terminal	Terminal	
57	Transmitter B EXCITER POWER ON	–	–	–	–	–	3E38	3E12	115 VAC
58	Transmitter B B BIAS ON VIS. MOD. AMP.	–	–	–	–	–	4E13	3E12	115 VAC
59	BLANK								
60	Transmitter A and B EBS OPERATION	4E76	4E78	–	–	28 VDC	4E76	4E83	28 VDC
61	Transmitter B AMPLIFIER CABINET OVER-TEMPERATURE ALARM	–	–	–	–	–	4E119	4E120	DRY CIRCUIT
62	Transmitter B AURAL EXHAUST OVER-TEMPERATURE ALARM	–	–	–	–	–	4E115	4E116	DRY CIRCUIT
63	Transmitter B VISUAL EXHAUST OVER-TEMPERATURE ALARM	–	–	–	–	–	4E117	4E118	DRY CIRCUIT

TABLE 9. REMOTE METERING FUNCTIONS

No.	Function		Connection			Terminal Voltage	Notes
			Terminal	Terminal	Shield		
1	Transmitter A Primary 3 Phase Power	Ø 1	2E73	2E74	–	230 Vac.	
		Ø 2	2E74	2E75	–	230 Vac.	
		Ø 3	2E75	2E73	–	230 Vac.	
2	Transmitter A Regulated 3 Phase Power	Ø 1	2E34	2E35	–	230 Vac.	
		Ø 2	2E35	2E36	–	230 Vac.	
		Ø 3	2E36	2E34	–	230 Vac.	
3	Transmitter A Aural PA filament Voltage		1TP2-5	1TP2-4	–	7.5 V DC	
4	Transmitter A Visual PA filament Voltage		1TP1-5	1TP1-4	–	7.5 V DC	
5	Transmitter A DC Power Supply (28 V)		2E82	2E81	–	28 V DC	
6	Transmitter A Control Ladder Supply (115 V)		2E11	2E12	–	115 Vac.	
7	Transmitter A Aural Plate Voltage		1E31	1E32	–	0.67 V DC	
8	Transmitter A Visual Plate Voltage		1E34	1E35	–	0.67 V DC	
9	Transmitter A Aural PA Plate Current		1E37	1E19	–	0.67 V DC	Can *Not* Be Grounded
10	Transmitter A Visual PA Plate Current		1E38	1E24	–	0.67 V DC	Can *Not* Be Grounded
11	Transmitter A Aural PA Grid Current		1E17	1E18	–	0.67 V DC	
12	Transmitter A Visual PA Grid Current		1E24	1E25	–	0.67 V DC	
13	Transmitter A Visual Modulated Amplifier DC Bias		1J205	1E32	–	40 V DC	Add isolation voltage divider.
14	Transmitter A Aural Excitation		1M9 (in series with "–" terminal)			20 uA	(Shield Leads) Requires DC Amplifier
15	Transmitter A Visual Excitation		1M7 (in series with "–" terminal)			20 uA	Requires DC Amplifier (Shield Leads)
16	Transmitter A Aural Power Output		1E98	1E97	1E99	20 uA	Remove Jumper Across 1R94. Requires DC Amplifier. (Shield Leads)
17	Transmitter A Visual Power Output		1E107	1E106	1E108	20 uA	Remove Jumper Across 1R98. Requires DC Amplifier. (Shield Leads)
18	Transmitter A Aural VSWR		1E94	1E95	1E96	20 uA	Remove Jumper Across 1R94. Requires DC Amplifier. (Shield Leads)
19	Transmitter A Visual VSWR		1E103	1E104	1E105	20 uA	Remove Jumper Across 1R98. Requires DC Amplifier. (Shield Leads)
20	Total Aural Reject Load Power		2E88	2E89	2E90	20 uA	Remove Jumper Across 2R21. Requires DC Amplifier. (Shield Leads)
21	Total Aural VSWR		2E91	2E92	2E93	20 uA	Remove Jumper Across 2R21. Requires DC Amplifier. (Shield Leads)
22	Total Aural Output Power		2E94	2E95	2E96	20 uA	Remove Jumper Across 2R21. Requires DC Amplifier. (Shield Leads)
23	Total Visual Reject Load Power		3E88	3E89	3E90	20 uA	Remove Jumper Across 3R21. Requires DC Amplifier. (Shield Leads)

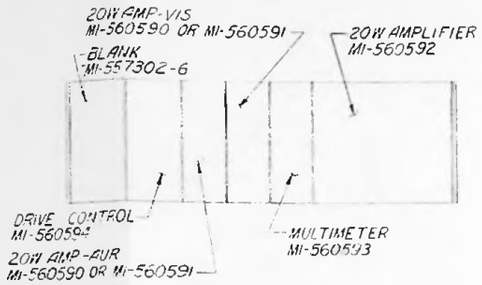
TABLE 9. REMOTE METERING FUNCTIONS (Continued)

No.	Function		Connection			Terminal Voltage	Notes
			Terminal	Terminal	Shield		
24	Total Visual VSWR		3E91	3E92	3E93	20 uA	Remove Jumper Across 3R21. Requires DC Amplifier. (Shield Leads)
25	Total Visual Output Power		3E94	3E95	3E96	20 uA	Remove Jumper Across 3R21. Requires DC Amplifier. (Shield Leads)
26	Transmitter B Primary 3 Phase Power	Ø 1	3E73	3E74	–	230 Vac	
		Ø 2	3E74	3E75	–	230 Vac	
		Ø 3	3E75	3E73	–	230 Vac	
27	Transmitter B Regulated 3 Phase Power	Ø 1	3E34	3E35	–	230 Vac	
		Ø 2	3E35	3E36	–	230 Vac	
		Ø 3	3E36	3E34	–	230 Vac	
28	Transmitter B Aural PA Filament Voltage		4TP2-5	4TP2-4	–	7.5 V DC	
29	Transmitter B Visual PA Filament Voltage		4TP1-5	4TP1-4	–	7.5 V DC	
30	Transmitter B DC Power Supply (28 V)		3E82	3E81	–	28 V DC	
31	Transmitter B Control Ladder Supply (115 V)		3E11	3E12	–	115 Vac	
32	Transmitter B Aural Plate Voltage		4E31	4E32	–	0.67 V DC	
33	Transmitter B Visual Plate Voltage		4E34	4E35	–	0.67 V DC	
34	Transmitter B Aural PA Plate Current		4E37	4E19	–	0.67 V DC	
35	Transmitter B Visual PA Plate Current		4E38	4E24	–	0.67 V DC	
36	Transmitter B Aural PA Grid Current		4E17	4E18	–	0.67 V DC	
37	Transmitter B Visual PA Grid Current		4E24	4E25	–	0.67 V DC	
38	Transmitter B Visual Modulated Amplifier DC Bias		4J205	4E32	–	40 V DC	Add isolation voltage divider.
39	Transmitter B Aural Excitation		4M9 (in series with "–" terminal)			20 uA	Requires DC Amplifier. (Shield Leads)
40	Transmitter B Visual Excitation		4M7 (in series with "–" terminal)			20 uA	Requires DC Amplifier. (Shield Leads)
41	Transmitter B Aural Power Output		4E98	4E97	4E99	20 uA	Remove Jumper Across 4R94. Requires DC Amplifier. (Shield Leads)
42	Transmitter B Visual Power Output		4E107	4E106	4E108	20 uA	Remove Jumper Across 4R98. Requires DC Amplifier. (Shield Leads)
43	Transmitter B Aural VSWR		4E94	4E95	4E96	20 uA	Remove Jumper Across 4R94. Requires DC Amplifier. (Shield Leads)
44	Transmitter B Visual VSWR		4E103	4E104	4E105	20 uA	Remove Jumper Across 4R98. Requires DC Amplifier. (Shield Leads)

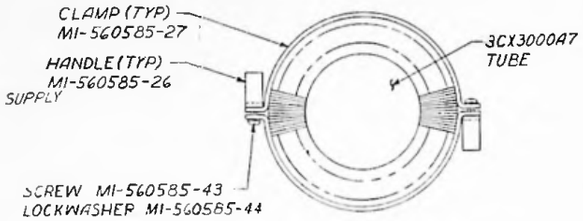


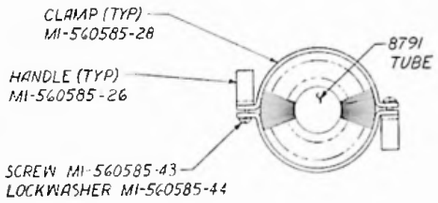
NOTE:

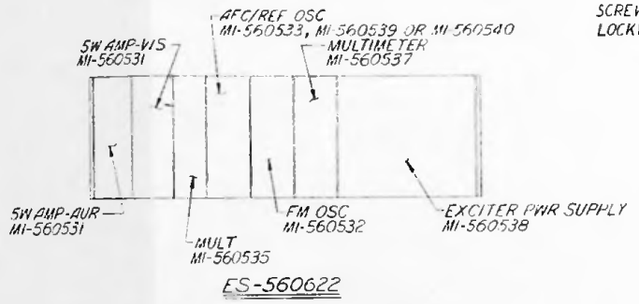
TRANSMISSION LINE & FITTINGS (MI-27791-K, 3 1/8 DIA & MI-561565, 1 5/8 DIA) FROM AURAL & VISUAL RF SWITCHES TO HARMONIC FILTERS & BEYOND TO BE SUPPLIED BY CUSTOMER UNLESS OTHERWISE INDICATED



ES-560617







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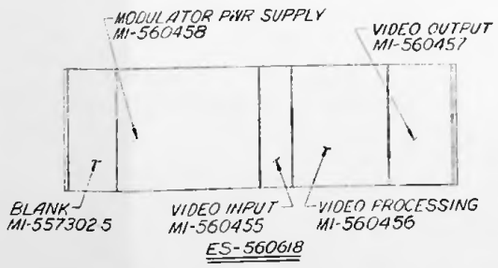
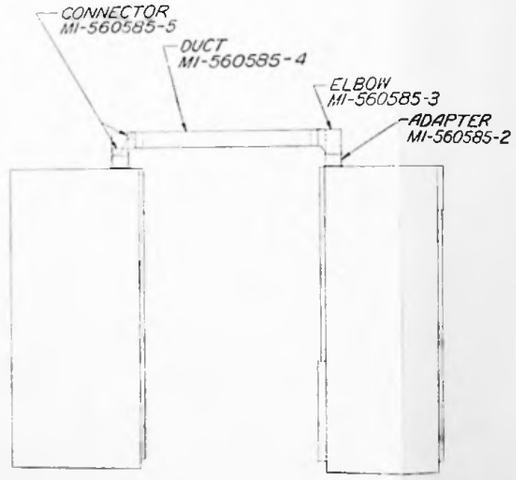
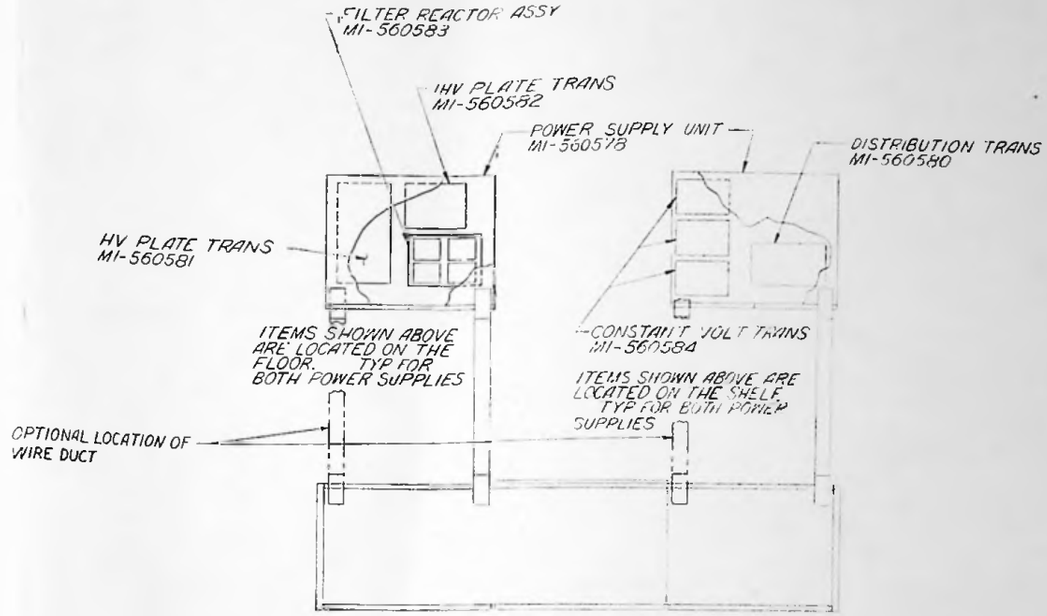


ES-560618

VIEW A



3H067
3477327-1



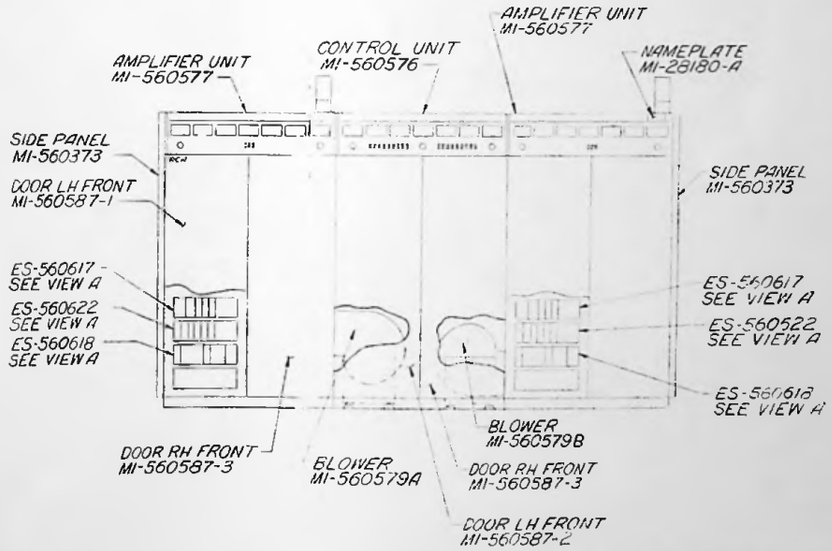
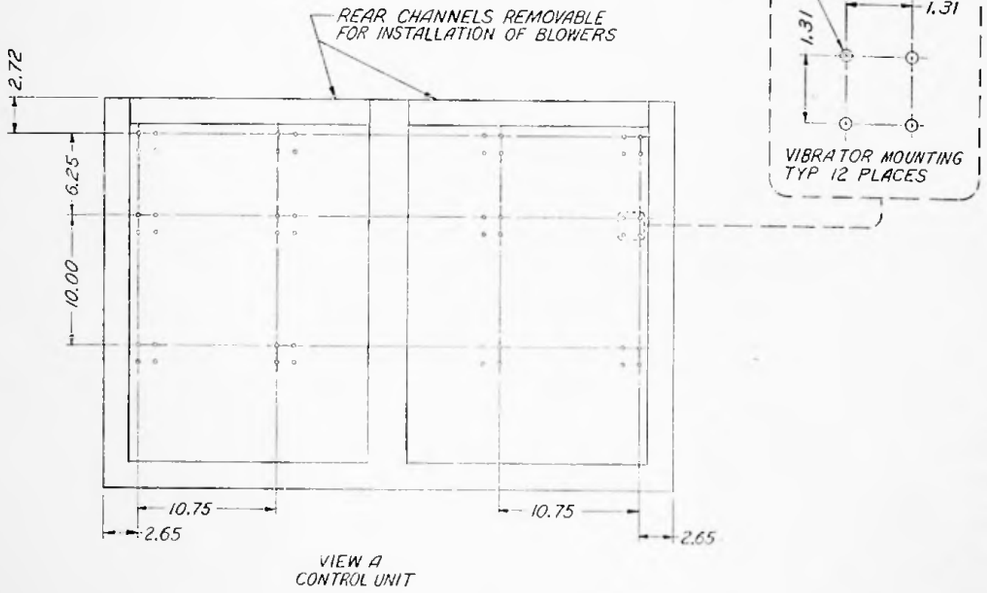
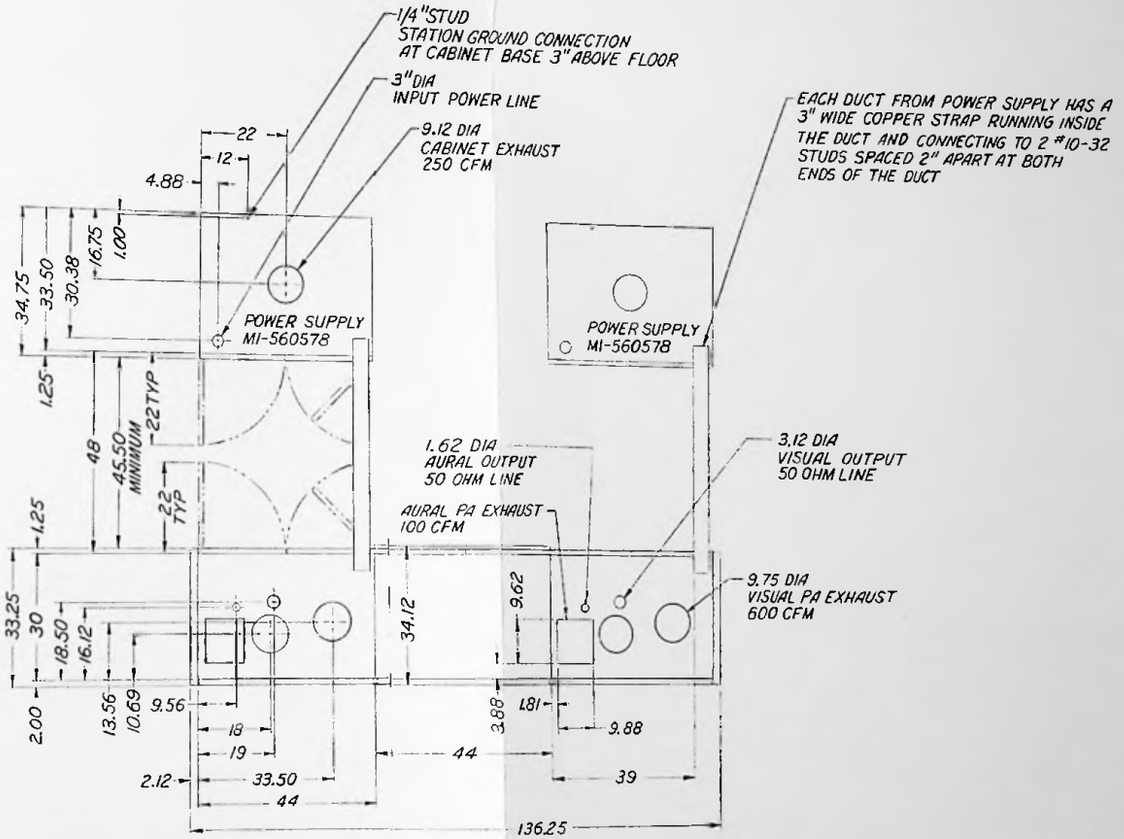
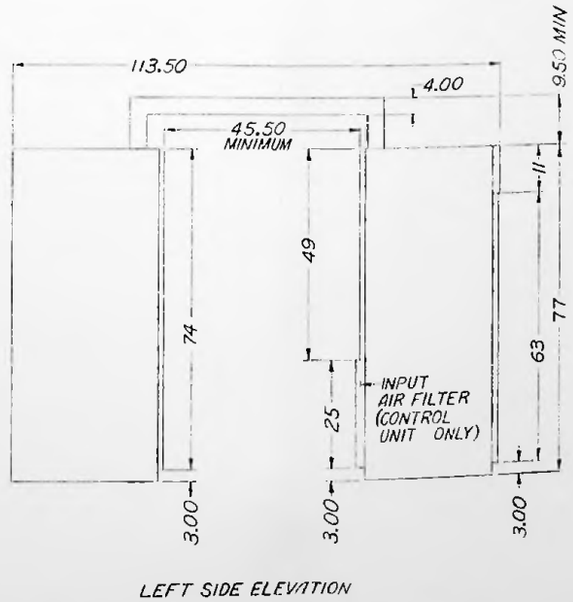


Figure 2. TT-30FL VHF TV Transmitter Installation and Floor Plan (3477327)







3H066
3477331-0

Figure 3. TT-30FL VHF TV Transmitter Outline (3477331)

INDEX NUMBER	MAT'L	WIRE DESCRIPTION: COLOR	WIRE DESCRIPTION: AWG SIZE	WIRE NUMBER	AMPLIFIER CABINET PREFIX 1	CONTROL CABINET PREFIX 2	POWER SUPPLY CABINET PREFIX 5	AMPLIFIER CABINET PREFIX 4	CONTROL CABINET PREFIX 3	POWER SUPPLY CABINET PREFIX 6	
1	NOTE 2			133	E1	K31-1		CLAMP DELAY			
2				134	E2	K31-7					
3											
4				176	E3	XDS10	-A1	DOOR INTLKS			
5				178	E4	XDS10	-C1				
6				179	E5	XDS10	-D1				
7				180	E6	XDS10	-E1				
8				181	E7	XDS10	-F1				
9	NOTE 4	BLK.	#16	226	E11	E1		EXCITER AND MOD. AMPL. BIAS INDICATOR			
10	NOTE 4	BLK.	#16	1003	E7		E42	TIME DELAY OPENING GROUNDING RELAY			
11											
12		BLK.	#16	1005	E80			AIR INTLKS			
13					E8						
14	NOTE 2			20	E10	K3-C1					
15											
16			#16	1009							
17											
18	NOTE 4	BLK.	#16	1010	E12	E38		EXCITER INDICATOR			
19											
20	NOTE 2			46	E13	K8-4		BIAS INTLK			
21				28	E14	K6-5					
22											
23				106	E15	K19-C1		AUR. PA CATH. O/L			
24				107	E16	K19-C2					
25											
26				108	E17	K20-C1		AUR. PA GRID O/L			
27				109	E18	K20-C2					
28											
29				110	E19	K21-C1		AUR. PA. CATH. O/L			
30				111	E20	K21-C2					
31											
32				112	E21	K22-C1		VIS. MOD. CATH. O/L			
33				113	E22	K22-C2					
34				114	E23	K23-C1					
35											
36				115	E24	K24-C1		VIS. PA. GRID O/L			
37				116	E25	K24-C2					
38											
39				117	E26	K25-C1		SPARE O/L			
40				118	E27	K25-C2					
41											
42				121	E28	K26-C1		LV DC O/L (SCREEN)			
43				122	E29	K26-C2					
44											
45				406	E30	M2	+	AUR. PA. PLATE VOLTMETER			
46				407	E31	M2	-				
47											
48				408	E33	M3	+	VIS. PA PLATE VOLTMETER			
49				409	E34	M3	-				
50											

Figure 4. TT-30FL Inter-Cabinet, R-F Switching Control, and Remote Control Interconnection Wire Chart — 3732114 (Sheet 1 of 24)

3732114-5
2H051

INDEX NUMBER	MAT'L.	WIRE DESCRIPTION			AMPLIFIER CABINET PREFIX 1	CONTROL CABINET PREFIX 2	POWER SUPPLY CABINET PREFIX 5	AMPLIFIER CABINET PREFIX 4	CONTROL CABINET PREFIX 3	POWER SUPPLY CABINET PREFIX 6	
		COLOR	AWG SIZE	WIRE NUMBER							
51	NOTE 2			71	E36	K11-11		MODULATOR INTLK			
52											
53	NOTE 3	BLK	#18	1023	E39	E76		230 VAC			
54	↓	BLK	#18	1024	E40	E77		EXHAUST FAN			
55	↓	BLK	#18	1025	E41	E78					
56											
57	NOTE 5	BLK	#14	1027	E42			115 VAC UTILITY FROM			
58	NOTE 5	BLK	#14	1028	E43			CUSTOMERS SUPPLY			
59											
60	NOTE 2			353	E44	S17-2 -		28 V DC TUNNING MOTORS			
61	↓			354	E45	S17-5 +					
62											
63				329	E46	S9-2		AUR. EXCTR CONTROL			
64				327	E47	S9-5					
65											
66				330	E48	S10-2		VIS. EXCTR CONTROL			
67				333	E49	S10-5					
68											
69				336	E50	S11-2		VIDEO GAIN CONTROL			
70				339	E51	S11-5					
71											
72				342	E52	S12-2		SYNC. GAIN CONTROL			
73				345	E53	S12-5					
74											
75				348	E54	S13-2		PED LEVEL CONTROL			
76				351	E55	S13-5					
77											
78				363	E56	S29-2		AUR. SCREEN CONTROL			
79				365	E57	S29-5					
80											
81				47	E58	K8-5		115 VAC MODULATOR			
82				48	E59	K8-6					
83											
84				161	E60	S22-T1		115 VAC EXCITER			
85				162	E61	S22-T2					
86											
87				163	E62	S23-T1		115 VAC 20 W AMPL			
88				164	E63	S23-T2					
89											
90				75	E64	K12-5		115 VAC 500 V SCREEN SUPPLY			
91				76	E65	K12-6					
92											
93	↓			203	E66	XF12-2		28 VDC OVENS			
94				206	E67	A4-7					
95											
96	NOTE 4	BLK	#16	1092	E73	E34		230 VAC REG. FILAMENTS			
97	↓	BLK	#16	1093	E74	E35					
98		BLK	#16	1094	E75	E36					
99											
100	↓	BLK	#16	1096	E77	E16		SCREEN RELAY			

Figure 4. TT-30FL Inter-Cabinet, R-F Switching Control, and Remote Control Interconnection Wire Chart — 3732114 (Sheet 2 of 24)

INDEX NUMBER	MAT'L.	WIRE DESCRIPTION			AMPLIFIER CABINET PREFIX 4	CONTROL CABINET PREFIX 2	POWER SUPPLY CABINET PREFIX 5	AMPLIFIER CABINET PREFIX 4	CONTROL CABINET PREFIX 3	POWER SUPPLY CABINET PREFIX 6	
		COLOR	AWG SIZE	WIRE NUMBER							
51	NOTE 2			71	E36	K11-11		MODULATOR INTLK			
52											
53	NOTE 3	BLK	#18	1023	E39	E76		230 VAC			
54	↓	BLK	#18	1024	E40	E77		EXHAUST FAN			
55		BLK	#18	1025	E41	E78					
56											
57	NOTE 5	BLK	#14	1027	E42			115 VAC UTILITY FROM			
58	NOTE 5	BLK	#14	1028	E43			CUSTOMERS SUPPLY			
59											
60	NOTE 2			353	E44	S17-2 -		28 V DC TUNNING MOTORS			
61	↓			354	E45	S17-5 +					
62											
63				324	E46	S9-2		AUR. EXCTR CONTROL			
64				327	E47	S9-5					
65											
66				330	E48	S10-2		VIS. EXCTR CONTROL			
67				333	E49	S10-5					
68											
69				336	E50	S11-2		VIDEO GAIN CONTROL			
70				339	E51	S11-5					
71											
72				342	E52	S12-2		SYNC. GAIN CONTROL			
73				345	E53	S12-5					
74											
75				348	E54	S13-2		PED LEVEL CONTROL			
76				351	E55	S13-5					
77											
78				363	E56	S29-2		AUR. SCREEN CONTROL			
79				365	E57	S29-5					
80											
81				47	E58	K8-5		115 VAC MODULATOR			
82				48	E59	K8-6					
83											
84				161	E60	S22-T1		115 VAC EXCITER			
85				162	E61	S22-T2					
86											
87				163	E62	S23-T1		115 VAC 20 W AMPL			
88				164	E63	S23-T2					
89											
90				75	E64	K12-5		115 VAC 500 V SCREEN SUPPLY			
91				76	E65	K12-6					
92											
93				203	E66	XF12-2		28 VDC OVENS			
94	↓			206	E67	A4-7					
95											
96	NOTE 4	BLK	#16	1042	E73	E34		230 VAC REG. FILAMENTS			
97		BLK	#16	1043	E74	E35					
98		BLK	#16	1044	E75	E36					
99											
100	↓	BLK	#16	1096	E77	E16		SCREEN RELAY			

Figure 4. TT-30FL Inter-Cabinet, R-F Switching Control, and Remote Control Interconnection Wire Chart — 3732114 (Sheet 2 of 24)

INDEX NUMBER	MATL	WIRE DESCRIPTION COLOR	AWG SIZE	WIRE NUMBER	AMPLIFIER CABINET PREFIX 1	CONTROL CABINET PREFIX 2	POWER SUPPLY CABINET PREFIX 5	AMPLIFIER CABINET PREFIX 4	CONTROL CABINET PREFIX 3	POWER SUPPLY CABINET PREFIX 6	
101	NOTE 4	BLK	#16	1047	E 73	E 12					SCREEN RELAY
102											
103		BLK	#16	1049	E 79	E 11					FILAMENT O/L
104											
105		BLK	#16	1051		E 9	E 23				HV GROUND AUX
106		BLK	#16	1052		E 10	E 25				
107											
108		BLK	#16	1054		E 11					INTERLOCK PROVISION
109						E 24					
110											
111	NOTE 6	BLK	#12	1057		E 12	E 22				HV GROUNDING TIME DELAY
112		BLK	#12	1058		E 13	E 27				HV GROUNDING AUX
113		BLK	#12	1059		E 14	E 38				SURGE SUPPRESSOR
114		BLK	#12	1060		E 15	E 21				HV GROUNDING TIME DELAY
115											
116		BLK	#12	1062		E 17	E 15				
117		BLK	#12	1063		E 18	E 14				AC O/L
118		BLK	#12	1064		E 19	E 16				
119											
120		BLK	#12	1066		E 20	E 17				INTERMEDIATE HV O/L
121		BLK	#12	1067		E 21	E 18				
122											
123		BLK	#12	1069		E 22	E 19				HV O/L
124		BLK	#12	1070		E 23	E 20				
125											
126	NOTE 4	BLK	#16	1072	E 3		E 30				DOOR INTLK
127	NOTE 4	BLK	#16	1073		E 24	E 29				
128											
129	NOTE 6	BLK	#12	1075		E 25	E 1				
130		BLK	#12	1076		E 26					
131		BLK	#12	1077		E 27	E 2				230 VAC UNREGULATED
132		BLK	#12	1078		E 28					
133		BLK	#12	1079		E 29	E 3				
134		BLK	#12	1080		E 30					
135											
136	NOTE 5	BLK	#14	1082		E 31	E 4				
137		BLK	#14	1083		E 32	E 5				230 VAC VA FIL CONTACTOR
138		BLK	#14	1084		E 33	E 6				
139											
140		BLK	#14	1086		E 34	E 7				
141		BLK	#14	1087		E 35	E 8				230 VAC REGULATED
142		BLK	#14	1088		E 36	E 9				
143											
144	NOTE 4	BLK	#16	1090		E 37	E 37				PLATE CONTACTOR AUX.
145											
146	NOTE 5	BLK	#14	1092		E 68					115 VAC INPUT FOR 28 VDC SUPPLY
147	NOTE 5	BLK	#14	1093		E 69					FROM CUSTOMER'S SOURCE
148											
149	NOTE 6	BLK	#12	1095		E 70	E 11				230 VAC BUS TO METERING
150	NOTE 6	BLK	#12	1096		E 71	E 12				

Figure 4. TT-30FL Inter-Cabinet, R-F Switching Control, and Remote Control Interconnection Wire Chart – 3732114 (Sheet 3 of 24)

INDEX NUMBER	MAT'L.	WIRE DESCRIPTION: COLOR	AWG SIZE	WIRE NUMBER	AMPLIFIER CABINET PREFIX 1	CONTROL CABINET PREFIX 2	POWER SUPPLY CABINET PREFIX 5	AMPLIFIER CABINET PREFIX 4	CONTROL CABINET PREFIX 3	POWER SUPPLY CABINET PREFIX 6	
151	NOTE 6	BLK	#12	1097	E72		E13				230 VAC BUS TO METERING
152											
153	NOTE 3	BLK	#18	1099	E76		E31				
154	↓	BLK	#18	1100	E77		E32				EXHAUST FANS
155		BLK	#18	1101	E78		E33				
156											
157	NOTE 4	BLK	#16	1103		E22					HV GROUNDING
158						E35					
159											
160		BLK	#16	1106		E24					
161						E34					HV GROUNDING AUX
162		BLK	#16	1108		E27					
163						E36					
164											
165		BLK	#16	1111		E35					SURGE SUPRESSOR
166						E39					
167											
168	NOTE 5	BLK	#14	1114		E40					115 VAC UTILITY FROM CUSTOMER'S
169	NOTE 5	BLK	#14	1115		E41					SUPPLY
170											
171	NOTE 8	RG2	13U	1117	C11-1		E101				CONDUCTOR 6 KV
172					NOTE 1		GND				SHIELD
173											
174		RG2	13U	1120	R8-1		C1-1				CONDUCTOR 4 KV
175					NOTE 1		GND				SHIELD
176											
177		RG2	13U	1123	R10-2		C2-1				CONDUCTOR 2 KV AUR IPA
178					NOTE 1		GND				SHIELD
179											
180		RG2	13U	1126	R11-1		R1-2				CONDUCTOR 2KV VIS MOD AMPL
181	↓				E101		GND				SHIELD
182											
183	NOTE 6	BLK	#12	1129	C11-2		R8-1				6KV RETURN
184											
185	NOTE 2			133			E1		K31-1		CLAMP DELAY
186				134			E2		K31-2		
187											
188				176			E3		XDS10-A1		
189				178			E4		XDS10-C1		
190				179			E5		XDS10-D1		DOOR INTLKS
191				180			E6		XDS10-E1		
192	↓			181			E7		XDS10-F1		
193											
194	NOTE 4	BLK	#16	1133			E7		E42		TIME DELAY OPENING GROUNDING RELAY
195											
196		BLK	#16	1135			E80				
197	↓						E8				AIR INTLKS
198	NOTE 2			20			E10		K3-C1		
199											
200											

Figure 4. TT-30FL Inter-Cabinet, R-F Switching Control, and Remote Control Interconnection Wire Chart — 3732114 (Sheet 4 of 24)

INDEX NUMBER	MAT'L.	WIRE DESCRIPTION			AMPLIFIER CABINET PREFIX 4	CONTROL CABINET PREFIX 2	POWER SUPPLY CABINET PREFIX 5	AMPLIFIER CABINET PREFIX 4	CONTROL CABINET PREFIX 3	POWER SUPPLY CABINET PREFIX 6		
		COLOR	AWG SIZE	WIRE NUMBER								
201	NOTE 4	BLK	#16	1139			E11				} EXICTER INDICATOR	
202	↓						E78					
203	↓	BLK	#16	1141			E12		E38			
204												
205	NOTE 2			46			E13		K8-4		} BIAS INTLCK	
206				28			E14		K6-5			
207												
208				106			E15		K19	-C1	} AUR IPA CATH	O/L
209				107			E16		K19	-C2		
210												
211				108			E17		K20	-C1	} AUR PA GRID	O/L
212				109			E18		K20	-C2		
213												
214				110			E19		K21	-C1	} AUR PA CATH	O/L
215				111			E20		K21	-C2		
216												
217				112			E21		K22	-C1	} VIS. MOD. CATH	O/L
218				113			E22		K22	-C2		
219				114			E23		K23	-C1		
220												
221				115			E24		K24	-C1	} VIS. PA GRID	O/L
222				116			E25		K24	-C2		
223												
224				117			E26		K25	-C1	} SPARE	O/L
225				118			E27		K25	-C2		
226												
227				121			E28		K26	-C1	} LV DC O/L (SCREEN)	
228				122			E29		K26	-C2		
229												
230				406			E30		M2	+	} AUR. PA PLATE VOLTMETER	
231				407			E31		M2	-		
232												
233				408			E33		M3	+	} VIS. PA PLATE VOLTMETER	
234				409			E34		M3	-		
235												
236	↓			71			E36		K11	-11	MODULATOR INTLK	
237												
238	NOTE 3	BLK	#18	1154			E39		E76		} 230 VAC EXHAUST FAN	
239	↓	BLK	#18	1155			E40		E77			
240	↓	BLK	#18	1156			E41		E78			
241												
242	NOTE 5	BLK	#14	1158			E42				} 115 VAC UTILITY FROM CUSTOMER'S SUPPLY	
243	NOTE 3	BLK	#14	1159			E43					
244												
245	NOTE 2			353			E44		S17	-2	} 28 V DC TUNNING MOTORS	
246	↓			354			E45		S17	+5		
247												
248	↓			324			E46		S9-2		} AUR. EXCTR CONTROL	
249	↓			327			E47		S9-5			
250												

Figure 4. TT-30FL Inter-Cabinet, R-F Switching Control, and Remote Control Interconnection Wire Chart — 3732114 (Sheet 5 of 24)

INDEX NUMBER	MAT'L.	WIRE DESCRIPTION: COLOR	AWG SIZE	WIRE NUMBER	AMPLIFIER CABINET PREFIX 1	CONTROL CABINET PREFIX 2	POWER SUPPLY CABINET PREFIX 5	AMPLIFIER CABINET PREFIX 4	CONTROL CABINET PREFIX 3	POWER SUPPLY CABINET PREFIX 6			
251	NOTE 2			330			E48		S10	-2	VIS. EXCTR. CONTROL		
252				333			E49		S10	-5			
253													
254				336			E50		S11	-2	VIDEO GAIN CONTROL		
255				339			E51		S11	-5			
256													
257				342			E52		S12	-2	SYNC. GAIN CONTROL		
258				345			E53		S12	-5			
259													
260				348			E54		S13	-2	PED LEVEL CONTROL		
261				351			E55		S13	-5			
262													
263				363			E56		S29	-2	AUR. SCREEN CONTROL		
264				365			E57		S29	-5			
265													
266				47			E58		K8	-5	115 VAC MODULATOR		
267				48			E59		K8	-6			
268													
269				161			E60		S22	-T1	115 VAC EXCITER		
270				162			E61		S22	-T2			
271													
272				163			E62		S23	-T1	115 VAC 20W AMPL		
273				164			E63		S23	-T2			
274													
275				75			E64		K12	-5	115 VAC 500V SCREEN SUPPLY		
276				76			E65		K12	-6			
277													
278				203			E66		XF12	-2	28V DC OVENS		
279				206			E67		A4	-7			
280													
281	NOTE 4	BLK	#16	1173			E73		E34		230 VAC REG. FILAMENTS		
282		BLK	#16	1174			E74		E35				
283		BLK	#16	1175			E75		E36				
284													
285		BLK	#16	1177			E77		E16		SCREEN RELAY		
286		BLK	#16	1178			E78		E12				
287													
288		BLK	#16	1180			E79		E11		FILAMENT O/L		
289													
290		BLK	#16	1182				E9		E23	HV GROUND AUX		
291		BLK	#16	1183				E10		E25			
292													
293		BLK	#16	1185				E11			INTERLOCK PROVISION		
294								E24					
295													
296	NOTE 6	BLK	#12	1189				E12		E22	HV GROUNDING TIME DELAY		
297		BLK	#12	1190				E13		E27	HV GROUNDING AUX.		
298		BLK	#12	1191				E14		E38	SURGE SUPPRESSOR		
299		BLK	#12	1192				E15		E21	HV GROUNDING TIME DELAY		
300													

Figure 4. TT-30FL Inter-Cabinet, R-F Switching Control, and Remote Control Interconnection Wire Chart — 3732114 (Sheet 6 of 24)

INDEX NUMBER	MAT'L	WIRE DESCRIPTION COLOR	AWG SIZE	WIRE NUMBER	AMPLIFIER CABINET PREFIX 1	CONTROL CABINET PREFIX 2	POWER SUPPLY CABINET PREFIX 5	AMPLIFIER CABINET PREFIX 4	CONTROL CABINET PREFIX 3	POWER SUPPLY CABINET PREFIX 6	
301	NOTE 6	BLK	#12	1194				E17		E15	
302		BLK	#12	1195				E18		E14	AC O/L
303		BLK	#12	1196				E19		E16	
304											
305		BLK	#12	1198				E20		E17	INTERMEDIATE HV O/L
306		BLK	#12	1199				E21		E18	
307											
308		BLK	#12	2001				E22		E19	HV O/L
309		BLK	#12	2002				E23		E20	
310											
311	NOTE 4	BLK	#16	2004			E3			E30	DOOR INTLK
312		BLK	#16	2005				E24		E29	
313											
314	NOTE 6	BLK	#12	2007				E25		E1	
315		BLK	#12	2008				E26			
316		BLK	#12	2009				E27		E2	230 VAC UNREGULATED
317		BLK	#12	2010				E28			
318		BLK	#12	2011				E29		E3	
319		BLK	#12	2012				E30			
320											
321	NOTE 5	BLK	#14	2014				E31		E4	
322		BLK	#14	2015				E32		E5	230 VAC VA FIL CONTACTOR
323		BLK	#14	2016				E33		E6	
324											
325		BLK	#14	2018				E34		E7	
326		BLK	#14	2019				E35		E8	230 VAC REGULATED
327		BLK	#14	2020				E36		E9	
328											
329	NOTE 4	BLK	#16	2022				E37		E37	PLATE CONTACTOR AUX.
330											
331	NOTE 5	BLK	#14	2024				E68			115 VAC INPUT FOR 28 V DC SUPPLY
332	NOTE 5	BLK	#14	2025				E69			FROM CUSTOMER'S SOURCE
333											
334	NOTE 6	BLK	#12	2027				E70		E11	
335		BLK	#12	2028				E71		E12	230 VAC BUS TO METERING
336		BLK	#12	2029				E72		E13	
337											
338	NOTE 3	BLK	#18	2031				E76		E31	
339		BLK	#18	2032				E77		E32	EXHAUST FAN
340		BLK	#18	2033				E78		E33	
341											
342	NOTE 4	BLK	#16	2035					E22		HV GROUNDING
343									E35		
344											
345		BLK	#16	2038					E24		
346									E34		HV GROUNDING AUX
347		BLK	#16	2040					E27		
348									E36		
349											
350											

Figure 4. TT-30FL Inter-Cabinet, R·F Switching Control, and Remote Control Interconnection Wire Chart — 3732114 (Sheet 7 of 24)

INDEX NUMBER	MAT'L	WIRE DESCRIPTION: COLOR	AWG SIZE	WIRE NUMBER	AMPLIFIER CABINET PREFIX 1	CONTROL CABINET PREFIX 2	POWER SUPPLY CABINET PREFIX 5	AMPLIFIER CABINET PREFIX 4	CONTROL CABINET PREFIX 3	POWER SUPPLY CABINET PREFIX 6	EXCITER SWITCHING PANEL PREFIX 50	RF SWITCHER PREFIX 70	AURAL REFLECTOMETER	VISUAL REFLECTOMETER	AURAL REJECT LOAD	VISUAL REJECT LOAD
351	NOTE 4	BLK	#16	2048					E35		SURGE SUPPRESSOR					
352									E39							
353				2049												
354	NOTE 5	BLK	#14	2047					E40		115 V AC UTILITY FROM					
355	NOTE 5	BLK	#14	2048					E41		CUSTOMER'S SUPPLY					
356																
357	NOTE 5	RG2	13U	2050			C11-1			E101	CONDUCTOR			6 KV		
358							NOTE 1			GND	SHIELD					
359																
360		RG2	13U	2053			R8-1			C1-1	CONDUCTOR			4 KV		
361							NOTE 1			GND	SHIELD					
362																
363		RG2	13U	2056			R10-2			C2-1	CONDUCTOR			2KV AUR IPA		
364							NOTE 1			GND	SHIELD					
365																
366		RG2	13U	2059			R11-1			R1-2	CONDUCTOR			2KV VIS MOD.		
367							E101			GND	SHIELD			AMPL		
368																
369	NOTE 6	BLK	#12	2062			C11-2			R8-1	6KV RETURN					
370																
371	NOTE 5	BLK	#14	2064	E84									115 VAC		
372	NOTE 5	BLK	#14	2065	E85									CUSTOMER SUPPLY		
373	NOTE 4	BLK	#16	2066	E84						E59					
374		BLK		2067	E84							E6-8		115 VAC RF		
375		WHT		2068	E85							E6-9		SWITCHING SUPPLY		
376		RED		2069		E109						E5-18		REJECT LOAD		
377		GRN		2070		E24						E5-17		THERMAL O/L		
378		ORN		2071		E112						E4-18		SWITCHES		
379		BLU		2072		E31						E6-17		220VAC TO		
380		WHT/BLK		2073		E32						E6-18		REJECT LOADS		
381		RED/BLK		2074												
382		GRN/BLK		2075												
383		ORN/BLK		2076												
384		BLU/BLK		2077												
385		BLK/WHT		2078												
386		RED/WHT		2079												
387		GRN/WHT		2080												
388		BLU/WHT		2081												
389		BLK/RED		2082												
390		WHT/RED		2083												
391		ORN/RED		2084												
392		BLU/RED		2085												
393																
394																
395																
396																
397																
398																
399																
400																

WIRE #351 - #392 16 CONDUCTOR CABLES

Figure 4. TT-30FL Inter-Cabinet, R-F Switching Control, and Remote Control Interconnection Wire Chart — 3732114 (Sheet 8 of 24)

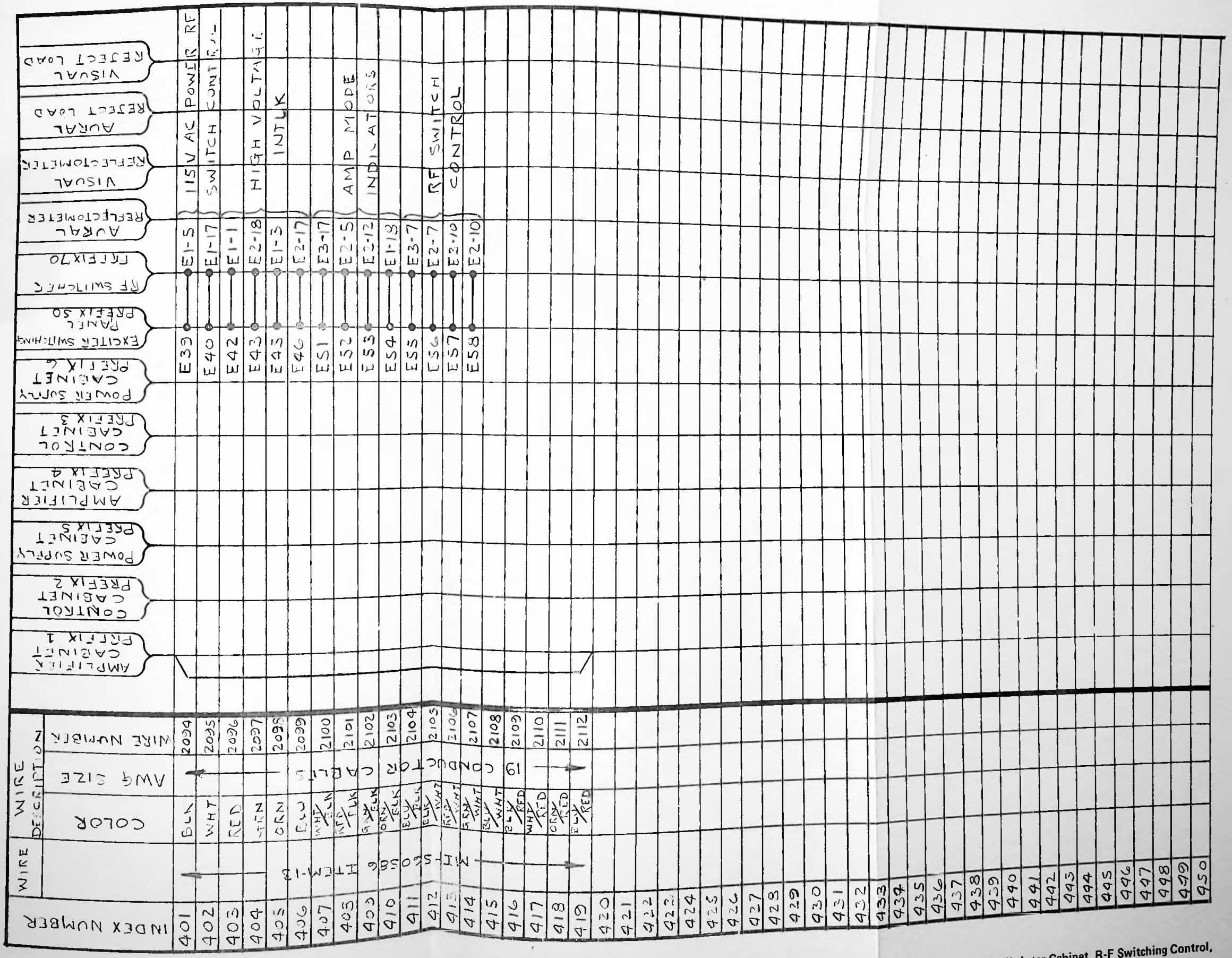


Figure 4. TT-30FL Inter-Cabinet, R-F Switching Control, and Remote Control Interconnection Wire Chart — 3732114 (Sheet 9 of 24)

INDEX NUMBER	MAT'L.	WIRE DESCRIPTION: COLOR	AWG SIZE	WIRE NUMBER	AMPLIFIER CABINET PREFIX 1	CONTROL CABINET PREFIX 2	POWER SUPPLY CABINET PREFIX 5	AMPLIFIER CABINET PREFIX 4	CONTROL CABINET PREFIX 3	POWER SUPPLY CABINET PREFIX 6	EXCITER SWITCHING PANEL PREFIX 50	RF SWITCHER PREFIX 70	AURAL REFLECTOMETER	VISUAL REFLECTOMETER	AURAL REJECT LOAD	VISUAL REJECT LOAD
451																
452																
453																
454																
455																
456																
457																
458																
459	NOTE 4	BLK	#16	2152	E1						E60					
460	↓	BLK	#16	2153	E2						E61			CLAMP		
461		BLK	#16	2154			E1				E62			CIRCUIT		
462		BLK	#16	2155			E2				E63					
463																
464	NOTE 14	NOTE 25	RG-58	W45	J12						J1			AURAL INPUT		
465	NOTE 15		RG-58	W46			J12				J2			EXCITER SW.		
466	NOTE 16		RG-58	W47	J16						J3			VISUAL INPUT		
467	NOTE 17		RG-58	W48			J16				J4			EXCITER SW		
468	NOTE 10		RG-58	W41	30J10						J7			AURAL OUTPUT		
469	NOTE 11		RG-58	W42			30J10				J6			EXCITER SW		
470	NOTE 12		RG-58	W43	30J11						J8			VISUAL OUTPUT		
471	NOTE 13	↓	RG-58	W44			30J11				J5			EXCITER SW.		
472																
473	NOTE 18	↑ SHIELDED PAIRS		2166	P30-1						P33-1			AUDIO INPUT TO EXCITER		
474	↓				P30-2						P33-2					
475					GND						GND					
476	NOTE 19			2169			P30-1				P35-1					
477	↓						P30-2				P35-2					
478							GND				GND					
479																
480	J MAT NOT SUPPLIED			2173							P34-1			CUSTOMER AUDIO INPUT 150-600Ω		
481											P34-2					
482											GRD					
483																
484	NOTE 9	BLK	#16	2177				THERMAL SW.			E4-17					
485		BLK	#16	2178							E4-18					
486		BLK	#16	2179				THERMAL SW.			E5-17					
487		BLK	#16	2180							E5-18					
488		BLK	#16	2181							E6-18					
489		BLK	#16	2182				230 V AC			E6-18					
490		BLK	#16	2183							E6-17					
491		BLK	#16	2184							E6-17					
492																
493	NOTE 9		RG-58	2186		J8							VSWR	INDIVIDUAL P.A. RF POWER & VSWR METERING		
494			RG-58	2187	J21								REV			
495			RG-58	2188	J22								FWD			
496			RG-58	2189				J8					VSWR			
497			RG-58	2190		J21							REV			
498			RG-58	2191		J22							FWD			
499			RG-58	2192		J7							VSWR			
500	↓		RG-58	2193	J23								REV			

Figure 4. TT-30FL Inter-Cabinet, R-F Switching Control, and Remote Control Interconnection Wire Chart — 3732114 (Sheet 10 of 24)

INDEX NUMBER	MAT'L.	WIRE DESCRIPTION: COLOR	AWG SIZE	WIRE NUMBER	AMPLIFIER CABINET PREFIX 1	CONTROL CABINET PREFIX 2	POWER SUPPLY CABINET PREFIX 5	AMPLIFIER CABINET PREFIX 4	CONTROL CABINET PREFIX 3	POWER SUPPLY CABINET PREFIX 6	EXCITER SWITCHING PANEL PREFIX 50	RF SWITCHER PREFIX 70	AURAL REFLECTOMETER	VISUAL REFLECTOMETER	AURAL REJECT LOAD	VISUAL REJECT LOAD
501	NOTE 3		RG-58	2194	J24									FWD		INDIVIDUAL
502			RG-58	2195				J7						VSWR		PA R.F. POWER
503			RG-58	2196			J23							REV		& VSWR
504			RG-58	2197			J24							FWD		METERING
505																
506			RG-58	2199		J10							VSWR			
507			RG-58	2200		J4							FWD			
508			RG-58	2201		J5							REV			COMBINED RF POWER METERING
509			RG-58	2202		J6										
510			RG-58	2203		J9								VSWR		
511			RG-58	2204				J4						FWD		
512			RG-58	2205				J5						REV.		
513			RG-58	2206				J6								
514																
515	NOTE 20	BLK	#18	2208	E68						E1	CONDUCTOR				
516					E70						E5	SHIELD				
517		BLK	#18	2210			E68				E2	CONDUCTOR			EXCITER	
518							E70				E5	SHIELD			SIGNAL LOSS	
519		BLK	#18	2212	E71						E3	CONDUCTOR			SENSING OP	
520					E70						E5	SHIELD			AMP INPUTS	
521		BLK	#18	2214			E71				E4	CONDUCTOR				
522							E70				E5	SHIELD				
523		BLK	#18	2216	E69						E6	CONDUCTOR				
524					E70						E5	SHIELD				
525		BLK	#18	2218			E69				E7	CONDUCTOR			EXCITER	
526							E70				E5	SHIELD			SIGNAL LOSS	
527		BLK	#18	2220	E72						E8	CONDUCTOR			SENSING OP	
528					E70						E5	SHIELD			AMP OUTPUTS	
529		BLK	#18	2222			E72				E9	CONDUCTOR				
530							E70				E5	SHIELD				
531	NOTE 3	BLK	#18	2224		E12					E12				2K31	
532		BLK	#18	2225		E14					E13					
533		BLK	#18	2226				E12			E14				3K31	
534		BLK	#18	2227				E14			E15					
535		BLK	#18	2228		E82					E16	+			28V DC	
536		BLK	#18	2229		E81					E17	-				
537		BLK	#18	2230				E81			E17	-				
538		BLK	#18	2231				E82			E18	+				
539																
540		BLK	#18	2233		E11					E20					
541		BLK	#18	2234		E12					E21	115 V AC				
542		BLK	#18	2235				E11			E22					
543		BLK	#18	2236				E12			E23					
544																
545	NOTE 21	BLK	#20	2238	E81				E47							
546		BLK	#20	2239				E47			E75	EXCITER			EMERGENCY	
547		BLK	#20	2240			E86		E48			SWITCHING			BROADCAST	
548		BLK	#20	2241				E48			E76	DISABLE			SERVICE	
549		BLK	#20	2242	E82				E83			+28 V DC				
550		BLK	#20	2243			E82		E49			RELAY SUPPLY				

Figure 4. TT-30FL Inter-Cabinet, R-F Switching Control, and Remote Control Interconnection Wire Chart — 3732114 (Sheet 11 of 24)

INDEX NUMBER	MAT'L.	WIRE DESCRIPTION: COLOR	AWG SIZE	WIRE NUMBER	AMPLIFIER CABINET PREFIX 1	CONTROL CABINET PREFIX 2	POWER SUPPLY CABINET PREFIX 5	AMPLIFIER CABINET PREFIX 4	CONTROL CABINET PREFIX 3	POWER SUPPLY CABINET PREFIX 6	EXCITER SWITCHING PANEL PREFIX 50	STATION GROUND	AURAL TEST LOAD	VISUAL TEST LOAD	VSBF	
551	NOTE 21	BLK	#20	2244				E49			E37	+28 VDC RELAY SUPPLY				EMERGENCY BROADCAST SERVICE
552	NOTE 21	BLK	#20	2245	E76			E76								
553					E87											
554	NOTE 21	BLK	#20	2247	E86			E81								
555					E88						E38					
556	NOTE 7	COPPER STRAP		2249												GROUND
557																
558	NOTE 3	BLK	#18	2251		E24										THERMAL O/L SWITCHES
559		BLK	#18	2252		E100										
560		BLK	#18	2253		E24										
561		BLK	#18	2254		E103										
562		BLK	#18	2255		E24										
563		BLK	#18	2256		E106										
564																
565	NOTE 3	BLK	#18	2258		E41			E41		TOTAL VSWR INDICATOR LIGHTS					
566	NOTE 3	BLK	#18	2259		E44			E44							
567																
568	NOTE 4	BLK	#16	2261		E101			E2		AURAL TEST LOAD THERMAL CUTOUT					
569		BLK	#16	2262		E102			E3							
570		BLK	#16	2263		E105			E4		VISUAL TEST LOAD THERMAL CUTOUT					
571		BLK	#16	2264		E108			E5		VSBF THERMAL CUTOUT					
572		BLK	#16	2265		E111			E6		AURAL REJECT LOAD THERMAL CUTOUT					
573		BLK	#16	2266		E114			E7		VISUAL REJECT LOAD THERMAL CUTOUT					
574																
575		BLK	#16	2268		E2					E41	MODE SWITCHING				
576		BLK	#16	2269	E7						E43	PLATE INTLK				
577																
578		BLK	#16	2271				E2			E44	MODE SWITCHING				
579		BLK	#16	2272			E7				E46	PLATE INTLK				
580																
581																
582																
583																
584																
585																
586																
587																
588																
589																
590																
591																
592																
593																
594																
595																
596																
597																
598																
599																
600																

Figure 4. TT-30FL Inter-Cabinet, R-F Switching Control, and Remote Control Interconnection Wire Chart – 3732114 (Sheet 12 of 24)

INDEX NUMBER	MAT'L	WIRE DESCRIPTION: COLOR	WIRE DESCRIPTION: AWG SIZE	WIRE DESCRIPTION: WIRE NUMBER	VIS RF SWITCH 70 S1	VIS RF BOX 70 E1	VIS RF SWITCH 70 S2	VIS RF BOX 70 E2	VIS RF SWITCH 70 S3	VIS RF BOX 70 E3	AUR RF SWITCH 70 S4	AUR RF BOX 70 E4	AUR RF SWITCH 70 S5	AUR RF BOX 70 E5	AUR RF SWITCH 70 S6	AUR RF BOX 70 E6
601		BLK		2294	R	1										
602		WHT		2295	S	2										
603		RED		2296	E	3	RF SWITCH STATUS									
604		GRN		2297	F	4	CONTACTS									
605		ORN		2298	T	5										
606		BLU		2299	P	6										
607		WHT/BLK		2300	C	7										
608		RED/BLK		2301	B	8	RF SWITCH									
609		GRN/BLK		2302	A	9	CONTROL									
610		ORN/BLK		2303	D	10										
611		BLU/BLK		2304	M	11										
612		BLK/WHT		2305	L	12										
613		RED/WHT		2306	K	13	RF SWITCH STATUS									
614		GRN/WHT		2307	J	14	CONTACTS									
615		BLU/WHT		2308	H	15										
616		BLK/RED		2309	G	16										
617		WHT/RED		2310												
618		GRN/RED		2311												
619		BLU/RED		2312												
620																
621		BLK		2314	R	1										
622		WHT		2315	S	2										
623		RED		2316	E	3	RF SWITCH STATUS									
624	M1	GRN		2317	F	4	CONTACTS									
625		ORN		2318	T	5										
626		BLU		2319	P	6										
627		WHT/BLK		2320	C	7										
628	H	RED/BLK		2321	B	8	RF SWITCH									
629		GRN/BLK		2322	A	9	CONTROL									
630		ORN/BLK		2323	D	10										
631		BLU/BLK		2324	M	11										
632		BLK/WHT		2325	L	12										
633		RED/WHT		2326	K	13	RF SWITCH STATUS									
634	M1-M	GRN/WHT		2327	J	14	CONTACTS									
635		BLU/WHT		2328	H	15										
636		BLU/RED		2329	G	16										
637		WHT/RED		2330												
638		ORN/RED		2331												
639		BLU/RED		2332												
640																
641		BLK		2334	R	1										
642		WHT		2335	S	2										
643		RED		2336	E	3	RF SWITCH STATUS									
644		GRN		2337	F	4	CONTACTS									
645		ORN		2338	T	5										
646		BLU		2339	P	6										
647		WHT/BLK		2340	C	7										
648		RED/BLK		2341	B	8	RF SWITCH									
649		GRN/BLK		2342	A	9	CONTROL									
650		ORN/BLK		2343	D	10										

Figure 4. TT-30FL Inter-Cabinet, R-F Switching Control, and Remote Control Interconnection Wire Chart — 3732114 (Sheet 13 of 24)

INDEX NUMBER	MAT'L.	WIRE DESCRIPTION: COLOR	AWG SIZE	WIRE NUMBER
651		BLU/BLK		2344
652		BLK/WHT		2345
653		RED/WHT		2346
654		GRN/WHT		2347
655		BLU/WHT		2348
656		BLK/RED		2349
657		WHT/RED		2350
658		ORN/RED		2351
659		BLU/RED		2352
660				
661		BLK		2354
662		WHT		2355
663		RED		2356
664		GRN		2357
665		ORN		2358
666		BLU		2359
667		WHT/BLK		2360
668		RED/BLK		2361
669		GRN/BLK		2362
670		ORN/BLK		2363
671		BLU/BLK		2364
672		BLK/WHT		2365
673		RED/WHT		2366
674		GRN/WHT		2367
675		BLU/WHT		2368
676		BLK/RED		2369
677		WHT/RED		2370
678		ORN/RED		2371
679		BLU/RED		2372
680				
681		BLK		2374
682		WHT		2375
683		RED		2376
684		GRN		2377
685		ORN		2378
686		BLU		2379
687		WHT/BLK		2380
688		RED/BLK		2381
689		GRN/BLK		2382
690		ORN/BLK		2383
691		BLU/BLK		2384
692		BLK/WHT		2385
693		RED/WHT		2386
694		GRN/WHT		2387
695		BLU/WHT		2388
696		BLK/RED		2389
697		WHT/RED		2390
698		ORN/RED		2391
699		BLU/RED		2392
700				

VIS RF SWITCH 70 S1 — VIS RF BOX 70 E1 — VIS RF SWITCH 70 S2 — VIS RF BOX 70 E2 — VIS RF SWITCH 70 S3 — VIS RF BOX 70 E3 — AUR RF SWITCH 70 S4 — AUR RF BOX 70 E4 — AUR RF SWITCH 70 S5 — AUR RF BOX 70 E5 — AUR RF SWITCH 70 S6 — AUR RF BOX 70 E6

RF SWITCH STATUS CONTACTS
M — 11
L — 12
K — 13
J — 14
H — 15
G — 16

R — 1
S — 2
E — 3
F — 4
T — 5
P — 6

RF SWITCH STATUS CONTACTS
C — 7
B — 8
A — 9
D — 10
M — 11
L — 12
K — 13
J — 14
H — 15
G — 16

RF SWITCH CONTROL
R — 1
S — 2
E — 3
F — 4
T — 5
P — 6

RF SWITCH CONTROL
C — 7
B — 8
A — 9
D — 10
M — 11
L — 12

RF SWITCH STATUS CONTROL
K — 13
J — 14
H — 15
G — 16

RF SWITCH CONTROL
R — 1
S — 2
E — 3
F — 4
T — 5
P — 6
C — 7
B — 8
A — 9
D — 10
M — 11
L — 12
K — 13
J — 14
H — 15
G — 16

Figure 4. TT-30FL Inter-Cabinet, R-F Switching Control, and Remote Control Interconnection Wire Chart — 3732114 (Sheet 14 of 24)

INDEX NUMBER	MAT'L.	WIRE DESCRIPTION		
		COLOR	AWG SIZE	WIRE NUMBER
701	ITEM 13 MIL-W-5086	BLK	19 CONDUCTOR CABLES	2394
702		WHT		2395
703		RED		2396
704		GRN		2397
705		ORN		2398
706		BLU		2399
707		WHT/BLK		2400
708		RED/BLK		2401
709		GRN/BLK		2402
710		ORN/BLK		2403
711		BLU/BLK		2404
712		BLK/WHT		2405
713		RED/WHT		2406
714		GRN/WHT		2407
715		BLU/WHT		2408
716		BLK/WHT		2409
717		WHT/RED		2410
718		ORN/RED		2411
719		BLU/RED		2912
720				
721	NOTE 4	BLK	#16	2414
722				
723		BLK	#16	2416
724		BLK	#16	2417
725				
726		BLK	#16	2419
727		BLK	#16	2420
728				
729		BLK	#16	2422
730		BLK	#16	2423
731		BLK	#16	2424
732		BLK	#16	2425
733		BLK	#16	2426
734		BLK	#16	2427
735		BLK	#16	2428
736		BLK	#16	2429
737		BLK	#16	2430
738		BLK	#16	2431
739				
740		BLK	#16	2433
741		BLK	#16	2434
742		BLK	#16	2435
743		BLK	#16	2436
744		BLK	#16	2437
745		BLK	#16	2438
746		BLK	#16	2439
747		BLK	#16	2440
748		BLK	#16	2441
749		BLK	#16	2442
750		BLK	#16	2443

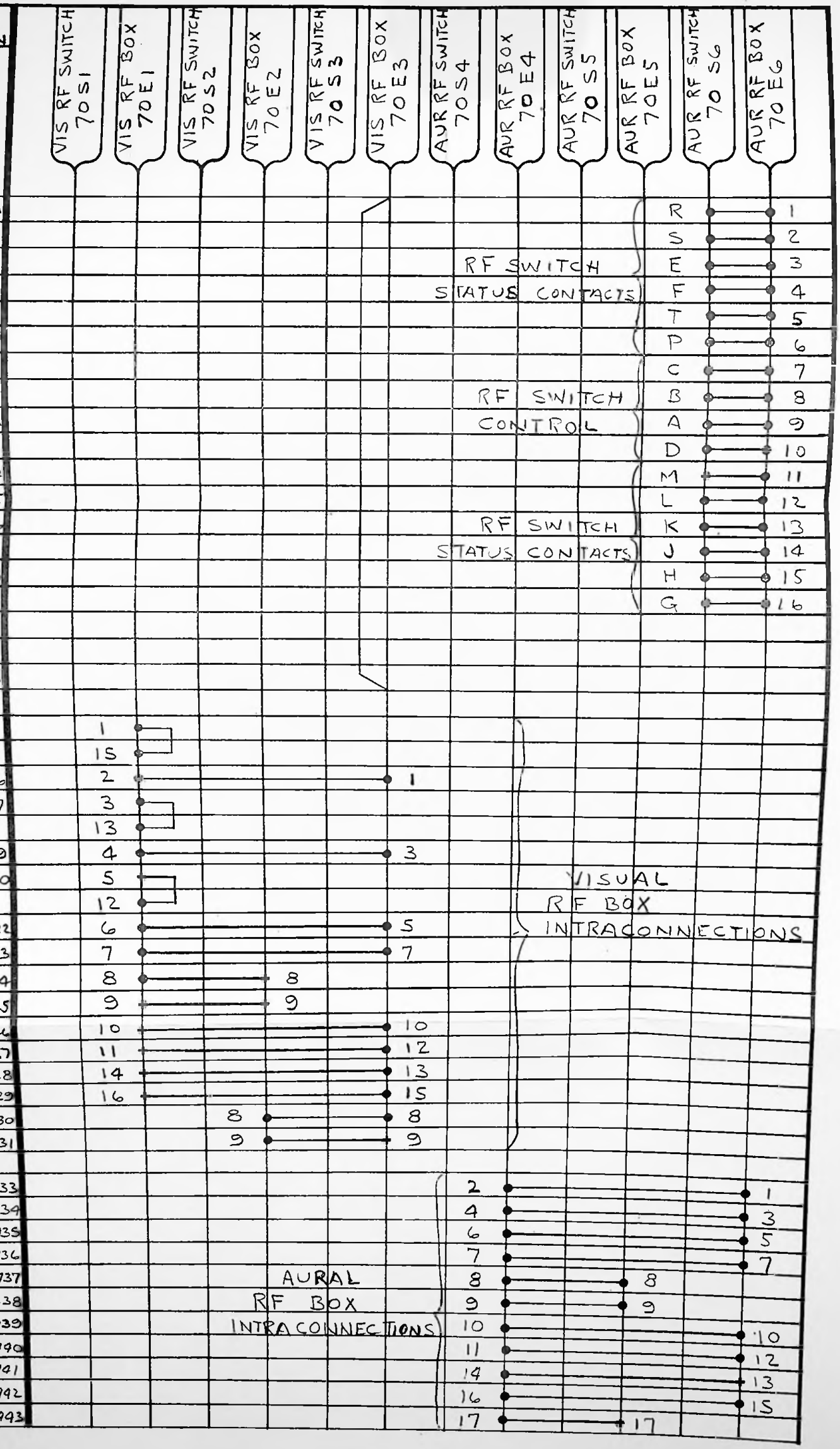


Figure 4. TT-30FL Inter-Cabinet, R-F Switching Control, and Remote Control Interconnection Wire Chart — 3732114 (Sheet 15 of 24)

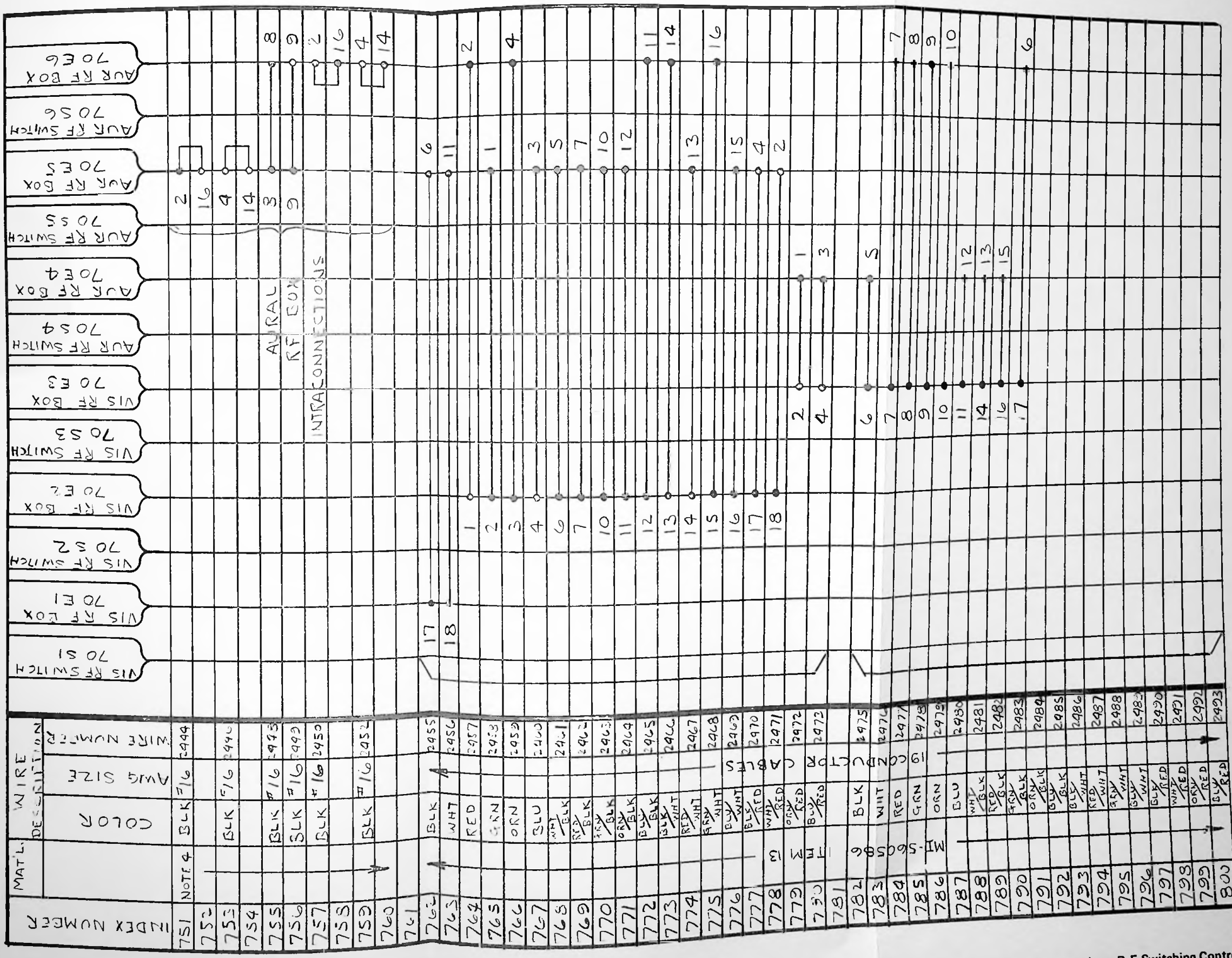


Figure 4. TT-30FL Inter-Cabinet, R-F Switching Control, and Remote Control Interconnection Wire Chart — 3732114 (Sheet 16 of 24)

INDEX NUMBER	MATL	WIRE DESCRIPTION COLOR	AWG SIZE	WIRE NUMBER	AMPLIFIER CABINET PREFIX 1	CONTROL CABINET PREFIX 2	POWER SUPPLY CABINET PREFIX 5	AMPLIFIER CABINET PREFIX 4	CONTROL CABINET PREFIX 3	POWER SUPPLY CABINET PREFIX 6	EXCITER SWITCHING PANEL PREFIX 50	REMOTE CONTROL FUNCTIONS
801												
802				2495		E53						CONTROL
803				2496		E61						INDICATOR
804				2497				E53				CONTROL
805				2498				E61				INDICATOR
806												
807				2500		E52						CONTROL
808				2501		E59						IND.
809				2502				E52				CONTROL
810				2503				E59				IND.
811												
812				2505		E60						IND.
813				2506				E60				IND.
814												
815				2508		E62						IND.
816				2509				E62				IND.
817												
818				2511		E63						IND.
819				2512				E63				IND.
820												
821				2514		E57						CONTROL
822				2515		E65						IND.
823				2516				E57				CONTROL
824				2517				E65				IND.
825												
826				2519		E56						CONTROL
827				2520		E64						IND.
828				2521				E56				CONTROL
829				2522				E64				IND.
830												
831				2524		E66						IND.
832				2525				E66				IND.
833												
834				2527		E58						CONTROL
835				2528				E58				CONTROL
836												
837				2530		E11						
838				2531				E11				
839				2532		E12						
840				2533				E12				
841												
842				2535		E54						
843				2536		E55						
844				2537				E54				
845				2538				E55				
846												
847				2540	E87							CONTROL
848				2541	E88							CONTROL
849				2542	E76							IND.
850				2543	E83							IND.

MATERIAL NOT SUPPLIED

SEE NOTE 1

TRANSMITTER ON

TRANSMITTER OFF

AIR ON

INTERLOCKS CLOSED

PLATE READY

PLATE VOLTAGE ON

PLATE VOLTAGE OFF

OVERLOAD

OVERLOAD RESET

CONTROL COMMON RETURN

INDICATOR COMMON RETURN

TIME DELAY BY-PASS

EMERGENCY BROADCAST SERVICE

Figure 4. TT-30FL Inter-Cabinet, R-F Switching Control, and Remote Control Interconnection Wire Chart — 3732114 (Sheet 17 of 24)

INDEX NUMBER	MAT'L	WIRE DESCRIPTION: COLOR	AWG SIZE	WIRE NUMBER	AMPLIFIER CABINET PREFIX 1	CONTROL CABINET PREFIX 2	POWER SUPPLY CABINET PREFIX 5	AMPLIFIER CABINET PREFIX 4	CONTROL CABINET PREFIX 3	POWER SUPPLY CABINET PREFIX 6	EXCITER SWITCHING PANEL PREFIX 50	
851												
852				2545	E46 →	+ 28 V DC						AURAL EXCITATION INCREASE
853				2546	E47 →	−						
854				2547			E46 →		+ 28 V DC			
855				2548			E47 →		−			
856												
857					E46 →	− 28 V DC						AURAL EXCITATION DECREASE
858					E47 →	+						
859							E46 →		− 28 V DC			
860							E47 →		+			
861												
862				2555	E48 →	+ 28 V DC						VISUAL EXCITATION INCREASE
863				2556	E49 →	−						
864				2557			E48 →		+ 28 V DC			
865				2558			E49 →		−			
866												
867					E48 →	− 28 V DC						VISUAL EXCITATION DECREASE
868					E49 →	+						
869							E48 →		− 28 V DC			
870							E49 →		+			
871												
872	MATERIAL NOT SUPPLIED		18 #	2565	ES4 →	+ 28 V DC						PEDESTAL LEVEL INCREASE
873				2566	ES5 →	−						
874				2567			ES4 →		+ 28 V DC			
875				2568			ES5 →		−			
876												
877					ES4 →	− 28 V DC						PEDESTAL LEVEL DECREASE
878					ES5 →	+						
879							ES4 →		− 28 V DC			
880							ES5 →		+			
881												
882				2575	ES0 →	+ 28 V DC						VIDEO GAIN INCREASE
883				2576	ES1 →	−						
884				2577			ES0 →		+ 28 V DC			
885				2578			ES1 →		−			
886												
887					ES0 →	− 28 V DC						VIDEO GAIN DECREASE
888					ES1 →	+						
889							ES0 →		− 28 V DC			
890							ES1 →		+			
891												
892				2585	ES2 →	+ 28 V DC						SYNC GAIN INCREASE
893				2586	ES3 →	−						
894				2587			ES2 →		+ 28 V DC			
895				2588			ES3 →		−			
896												
897					ES2 →	− 28 V DC						SYNC GAIN DECREASE
898					ES3 →	+						
899							ES2 →		− 28 V DC			
900							ES3 →		+			

Figure 4. TT-30FL Inter-Cabinet, R-F Switching Control, and Remote Control Interconnection Wire Chart — 3732114 (Sheet 18 of 24)

INDEX NUMBER	MATL	WIRE DESCRIPTION: COLOR	AWG SIZE	WIRE NUMBER	AMPLIFIER CABINET PREFIX 1	CONTROL CABINET PREFIX 2	POWER SUPPLY CABINET PREFIX 5	AMPLIFIER CABINET PREFIX 4	CONTROL CABINET PREFIX 3	POWER SUPPLY CABINET PREFIX 6	EXCITER SWITCHING PANEL PREFIX 50		
901				2594		E82						+	
902				2595		E81						−	28 V DC
903				2596				E82				+	SUPPLY
904				2597				E81				−	
905				2598		E38					IND.		
906				2599		E12							EXCITER POWER
907				2600				E38			IND.		ON
908				2601				E12					
909				2602	E13						IND.		
910				2603		E12							BIAS ON
911				2604			E13				IND.		VISUAL MOD.
912				2605				E12					AMP.
913													
914				2607						E34	CONTROL		MANUAL EXCITER
915				2608						E30	IND.		SWITCHING
916													
917				2610						E33	CONTROL		AUTOMATIC EXCITER
918				2611						E29	IND.		SWITCHING
919													
920				2613						E32	CONTROL		EXCITER "A"
921				2614						E19	IND.		
922													
923				2616						E31	CONTROL		EXCITER B"
924	MATERIAL NOT SUPPLIED		00	2617						E28	IND.		
925			#										
926				2619						E27	CONTROL		COMMON
927				2620						E26	IND.		RETURN
928													
929				2622						E48	CONTROL		
930				2623						E47	CONTROL		MODE I
931				2624						E51	IND.		A & B
932				2625						E52	IND.		
933													
934				2627						E49	CONTROL		
935				2628						E47	CONTROL		MODE II
936				2629						E53	IND.		"A" AIR
937				2630						E52	IND.		"B" TEST
938													
939				2632						E50	CONTROL		
940				2633						E47	CONTROL		MODE III
941				2634						E54	IND.		"A" TEST
942				2635						E40	IND.		B" AIR
943													
944				2637						E10			EXCITER
945				2638						E11			FAILURE ALARM
946													
947				2690	E119								
948				2691	E120								AMPLIFIER CABINET
949				2692			E119						TEMPERATURE ALARM
950				2693			E120						

Figure 4. TT-30FL Inter-Cabinet, R-F Switching Control, and Remote Control Interconnection Wire Chart — 3732114 (Sheet 19 of 24)

INDEX NUMBER	MATL	WIRE DESCRIPTION: COLOR	AWG SIZE	WIRE NUMBER	AMPLIFIER CABINET PREFIX 1	CONTROL CABINET PREFIX 2	POWER SUPPLY CABINET PREFIX 5	AMPLIFIER CABINET PREFIX 4	CONTROL CABINET PREFIX 3	POWER SUPPLY CABINET PREFIX 6	EXCITER SWITCHING PANEL PREFIX 50	
951												
952				2645	E115							AURAL EXHAUST TEMPERATURE ALARM
953				2646	E116							
954				2647			E115					
955				2648			E116					
956												
957				2650	E117							VISUAL EXHUST TEMPERATURE ALARM
958				2651	E118							
959				2652			E117					
960				2653			E118					
961												
962						REMOTE METERING						
963				2656		E73	Q1					PRIMARY 3 PHASE POWER (230 V AC)
964				2657		E74						
965				2658		E74	Q2					
966				2659		E75						
967				2660		E75	Q3					
968				2661		E73						
969				2662				E73		Q1		
970				2663				E74				
971				2664				E74		Q2		
972				2665				E75				
973				2666				E75		Q3		
974				2667				E73				
975			18									
976			#	2669		E34	Q1					REGULATED 3 PHASE POWER (230 V AC)
977				2670		E35						
978				2671		E35	Q2					
979				2672		E36						
980				2673		E36	Q3					
981				2674		E34						
982				2675				E34		Q1		
983				2676				E35				
984				2677				E35		Q2		
985				2678				E36				
986				2679				E36		Q3		
987				2680				E34				
988												
989				2682	TP2-4						+	AURAL PA FILAMENT VOLTAGE (7.5 V DC)
990				2683	TP2-5						−	
991				2684			TP2-4				+	
992				2685			TP2-5				−	
993												
994				2687	TP1-4						+	VISUAL PA. FILAMENT VOLTAGE (7.5 V DC)
995				2688	TP1-5						−	
996				2689			TP1-4				+	
997				2690			TP1-5				−	
998												
999				2692		E82					+	DC POWER SUPPLY (28 V DC)
1000				2693		E81					−	

MATERIAL NOT SUPPLIED

Figure 4. TT-30FL Inter-Cabinet, R-F Switching Control, and Remote Control Interconnection Wire Chart — 3732114 (Sheet 20 of 24)

INDEX NUMBER	MAT'L	WIRE DESCRIPTION: COLOR	WIRE DESCRIPTION: AWG SIZE	WIRE DESCRIPTION: WIRE NUMBER	AMPLIFIER CABINET PREFIX 1	CONTROL CABINET PREFIX 2	POWER SUPPLY CABINET PREFIX 5	AMPLIFIER CABINET PREFIX 4	CONTROL CABINET PREFIX 3	POWER SUPPLY CABINET PREFIX 6	EXCITER SWITCHING PANEL PREFIX 50		
1001				2694				E82			+	DC POWER SUPPLY	
1002				2695				E81			−	(28 V DC)	
1003													
1004				2697		E11							
1005				2698		E12						CONTROL LADDER	
1006				2699				E11				SUPPLY	
1007				2700				E12				(115 V AC)	
1008													
1009	NOTE 29			2701	E31						+		
1010				2702	E32						−	AURAL	
1011				2704			E31				+	PA PLATE	
1012				2705			E32				−	VOLTAGE	
1013													
1014				2707	E34						+		
1015				2708	E35						−	VISUAL	
1016				2709			E34				+	PA PLATE	
1017				2710			E35				−	VOLTAGE	
1018													
1019	NOTE 22	A		2712	E37						+		
1020	# 28			2713	E19						−	AURAL	
1021				2714			E37				+	PA PLATE	
1022				2715			E19				−	CURRENT	
1023													
1024				2717	E24						+		
1025				2718	E38						−	VISUAL	
1026				2719			E24				+	PA PLATE	
1027				2720			E38				−	CURRENT	
1028													
1029	NOTE 28			2722	E17						+	AURAL	
1030				2723	E18						−	PA GRID	
1031				2724			E17				+	CURRENT	
1032				2725			E18				−		
1033													
1034				2727	E24						+		
1035				2728	E25						−	VISUAL	
1036				2729			E24				+	PA GRID	
1037				2730			E25				−	CURRENT	
1038													
1039	NOTE 27			2732	J205						−		
1040				2733	E32						GND	VISUAL	
1041				2734			J205				−	MODULATED AMPLIFIER	
1042				2735			E32				GND	DC BIAS	
1043													
1044	NOTE 23			2737	M9(−)						20 u A		
1045				2738	E32						GND	AURAL	
1046				2739			M9(−)				20 u A	EXCITATION	
1047				2740			E32				GND		
1048													
1049				2742	M17(−)						20 u A	VISUAL	
1050				2743	E32						GND	EXCITATION	

MATERIAL NOT SUPPLIED

Figure 4. TT-30FL Inter-Cabinet, R-F Switching Control, and Remote Control Interconnection Wire Chart — 3732114 (Sheet 21 of 24)

INDEX NUMBER	MAT'L.	WIRE DESCRIPTION: COLOR	WIRE DESCRIPTION: AWG SIZE	WIRE DESCRIPTION: WIRE NUMBER	AMPLIFIER CABINET PREFIX 1	CONTROL CABINET PREFIX 2	POWER SUPPLY CABINET PREFIX 5	AMPLIFIER CABINET PREFIX 4	CONTROL CABINET PREFIX 3	POWER SUPPLY CABINET PREFIX 6	EXCITER SWITCHING PANEL PREFIX 50			
1051	NOTE 23			2744			M7(-)				20 u A	VISUAL		
1052	NOTE 23			2745			E32				GND	EXCITATION		
1053														
1054	NOTE 23			2747	E97						20 u A			
1055	& 24			2748	E98						COMMON			
1056				2749	E99						SHIELD	AURAL		
1057				2750			E97				20 u A	POWER OUTPUT		
1058				2751			E98				COMMON			
1059				2752			E99				SHIELD			
1060														
1061	NOTE 23			2754	E106						20 u A			
1062	& 25			2755	E107						COMMON			
1063				2756	E108						SHIELD	VISUAL		
1064				2757			E106				20 u A	POWER OUTPUT		
1065				2758			E107				COMMON			
1066		SUPPLIED		2759			E108				SHIELD			
1067														
1068	NOTE 23			2761	E94						20 u A			
1069	& 24		18	2762	E95						COMMON			
1070		NOT	#	2763	E96						SHIELD	AURAL		
1071				2764			E94				20 u A	VSWR		
1072				2765			E95				COMMON			
1073				2766			E96				SHIELD			
1074		MATERIAL												
1075	NOTE 22			2768	E103						20 u A			
1076	& 25			2769	E104						COMMON			
1077				2770	E105						SHIELD	VISUAL		
1078				2771			E103				20 u A	VSWR		
1079				2772			E104				COMMON			
1080				2773			E105				SHIELD			
1081														
1082	NOTE 23			2775		E88					20 u A			
1083	& 26			2776		E89					COMMON	TOTAL AURAL		
1084				2777		E90					SHIELD	REJECT LOAD POWER		
1085														
1086				2779		E91					20 u A			
1087				2780		E92					COMMON	TOTAL AURAL		
1088				2781		E93					SHIELD	VSWR		
1089														
1090				2783		E94					20 u A			
1091				2784		E95					COMMON	TOTAL AURAL		
1092				2785		E96					SHIELD	OUTPUT POWER		
1093														
1094				2787				E88			20 u A			
1095				2788				E89			COMMON	TOTAL VISUAL		
1096				2789				E90			SHIELD	REJECT LOAD POWER		
1097														
1098				2791				E91			20 u A			
1099				2792				E92			COMMON	TOTAL VISUAL		
1100				2793				E93			SHIELD	VSWR		

Figure 4. TT-30FL Inter-Cabinet, R-F Switching Control, and Remote Control Interconnection Wire Chart — 3732114 (Sheet 22 of 24)

INDEX NUMBER	MATL	WIRE DESCRIPTION COLOR	AWG SIZE	WIRE NUMBER	AMPLIFIER CABINET PREFIX 1	CONTROL CABINET PREFIX 2	POWER SUPPLY CABINET PREFIX 3	AMPLIFIER CABINET PREFIX 4	CONTROL CABINET PREFIX 5	POWER SUPPLY CABINET PREFIX 6	EXCITER SWITCHING PANEL PREFIX 50					
1101																
1102	NOTE 23			2795				E94			2.0 to 6 A					
1103	& 26			2796				E95			COMMON		TOTAL		VISUAL	
1104				2797				E96			SHIELD		OUTPUT		POWER	
1105																
1106		MATERIAL NOT SUPPLIED	18	2799						E61						
1107			#	2800						E65						
1108				2801						E66			FOR OPTIONAL			
1109				2802						E67			FACILITIES			
1110				2803						E68						
1111				2804						E20			COMMON			
1112																
1113																
1114																
1115																
1116																
1117																
1118																
1119																
1120																
1121																
1122																
1123																
1124																
1125																
1126																
1127																
1128																
1129																
1130																
1131																
1132																
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1147																
1148																
1149																
1150																

Figure 4. TT-30FL Inter-Cabinet, R-F Switching Control, and Remote Control Interconnection Wire Chart — 3732114 (Sheet 23 of 24)

NOTE 1.	USE HEAT SHRINKABLE SLEEVING OVER SHIELD
NOTE 2.	CABLE ASSEMBLY SUPPLIED AS PART OF CONTROL CABINET
NOTE 3.	MI-560586 ITEM 1
NOTE 4.	MI-560586 ITEM 2
NOTE 5.	MI-560586 ITEM 3
NOTE 6.	MI-560586 ITEM 4
NOTE 7.	MI-560586 ITEM 5
NOTE 8.	MI-560586 ITEM 6
NOTE 9.	MI-560586 ITEM 7
NOTE 10.	MI-560586 ITEM 14
NOTE 11.	MI-560586 ITEM 15
NOTE 12.	MI-560586 ITEM 16
NOTE 13.	MI-560586 ITEM 17
NOTE 14.	MI-560586 ITEM 18
NOTE 15.	MI-560586 ITEM 19
NOTE 16.	MI-560586 ITEM 20
NOTE 17.	MI-560586 ITEM 21
NOTE 18.	MI-560586 ITEM 22
NOTE 19.	MI-560586 ITEM 23
NOTE 20.	MI-560586 ITEM 24
NOTE 21	MI-560586 ITEM 25
NOTE 22	CAN NOT BE GROUNDED
NOTE 23	REQUIRES DC AMPLIFIER (SHIELD LEADS)
NOTE 24	REMOVE JUMPER ACROSS R94
NOTE 25	REMOVE JUMPER ACROSS R98
NOTE 26	REMOVE JUMPER ACROSS R21
NOTE 27	ADD ISOLATION VOLTAGE DIVIDER
NOTE 28	0.67 VDC OUTPUT
NOTE 29	WIRES 802 & 806 ARE REPLACED IN THE TT 30FL BY WIRES W41 THRU W48

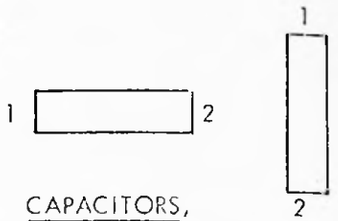
Figure 4. TT-30FL Inter-Cabinet, R-F Switching Control, and Remote Control Interconnection Wire Chart — 3732114 (Sheet 24 of 24)

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED

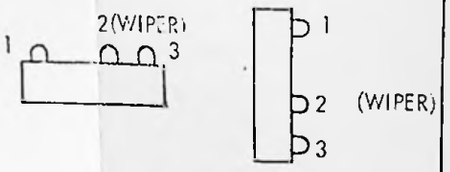
WIRE CODE

CODE LETTER	MECH L P IT. NO.	DESCRIPTION	CODE LETTER	MECH L P IT. NO.	DESCRIPTION
A		20 AWG 300 V BLK	X	181	18 AWG T/C BUS
B	176	18 AWG 300 V BLK	Y	183	SLEEVE
C	177	16 AWG 300 V BLK	Z	185	SHIELDED SINGLE
D		16 AWG 600 V BLK			
E		16 AWG T/C BUS			
F		SLEEVE			
G	178	14 AWG 600 V BLK			
H	179	12 AWG 600 V BLK			
I		8 AWG CABLE			
J		8 AWG T/C BUS			
K		SLEEVE			
L		1/0 AWG 600 V BLK			
M		4 AWG CABLE			
N		SLEEVE			
O		1/0 AWG CABLE			
P		SLEEVE			
Q		14 AWG 10KV WHT			
R		10 AWG 15KV WHT			
S		RG213U			
T	184	RG58			
U		RG59			
V		SHIELDED SINGLE			
W		SHIELDED PAIR			

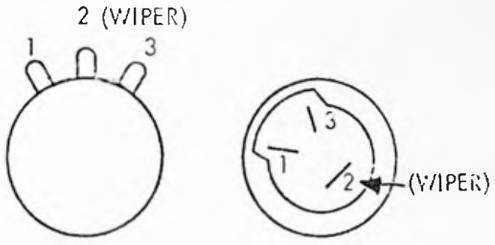
UNLESS OTHERWISE INDICATED COMPONENT TERMINALS TO BE AS SHOWN



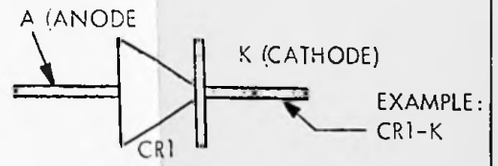
CAPACITORS, FIXED RESISTORS OR INDUCTORS



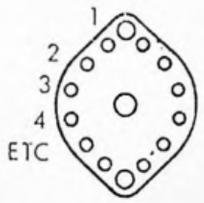
VARIABLE RESISTORS



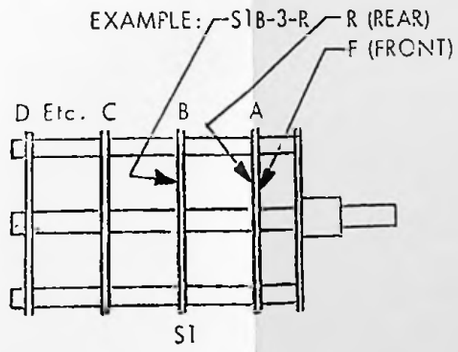
POTENTIOMETERS (VIEWED FROM REAR)



DIODES



(VIEWED FROM REAR)



ROTARY SWITCHES

REVISIONS	
AP. BY	0
DATE	

3732118-7
1H089

lab

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	± .02	± .005
ABOVE 6 TO 24	± .03	± .010
ABOVE 24	± .06	± .015
ANGULAR DIMENSIONS ± ½ DEG.		
SEE PURCH. SPEC. FOR STOCK TOLERANCE		

FIRST MADE FOR — USED ON
DRAWN BY — CHECKED BY
DESIGNED BY — COMMODITY CODE
RADIO CORPORATION OF AMERICA
CODE IDENT NO. 49671
SIZE B — 3732118
SHEET — CONT'D ON SH

3732118

Figure 5. Control Cabinet MI-560576 Wire Chart – 3732118 (Sheet 1 of 33)

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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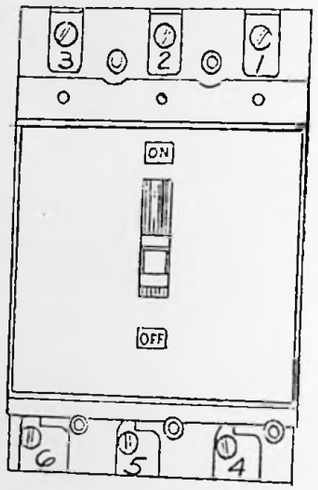
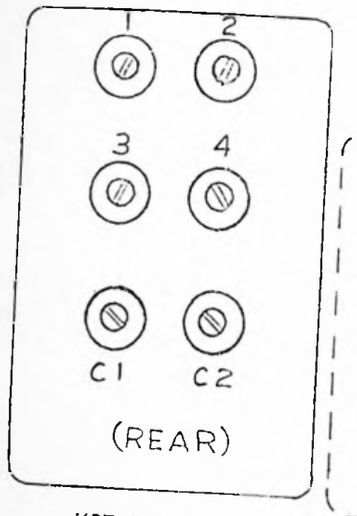
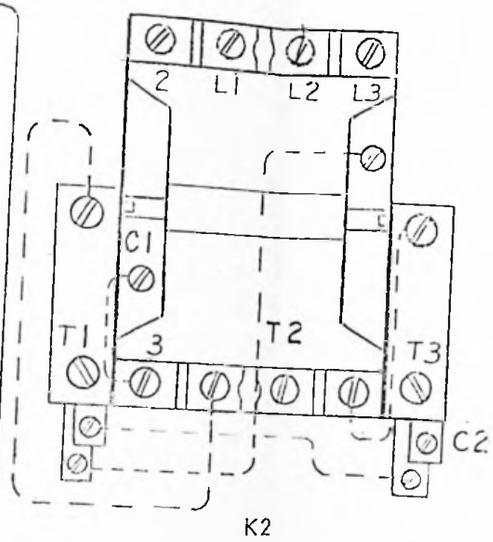
AP. BY	0
DATE	



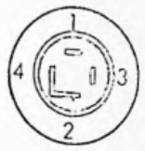
S25



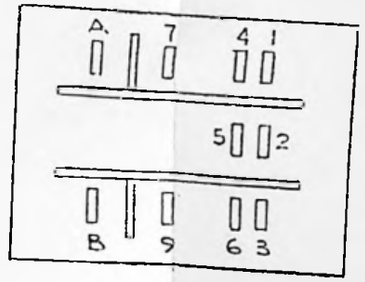
K27 THRU K30



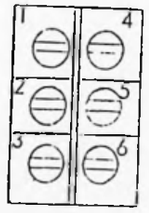
K2



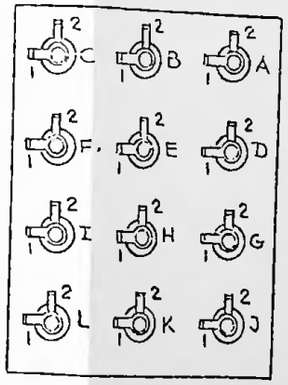
S28



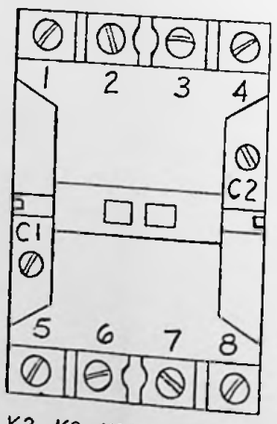
K31



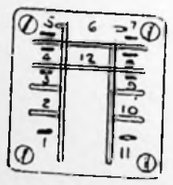
S9 THRU S18
S29



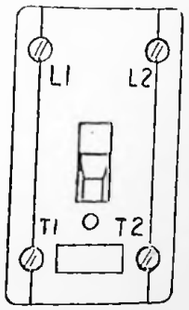
XDS10



K3, K8, K12 & K13



K11



S19 THRU S24

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	± .02	± .010
ABOVE 6 TO 24	± .05	± .030
ABOVE 24	± .10	± .050
ANGULAR DIMENSIONS ± DEG		

FIRST MADE FOR — USED ON

DRAWN BY

DESIGNED BY

CHECKED BY

COMMODITY CODE

RADIO CORPORATION OF AMERICA

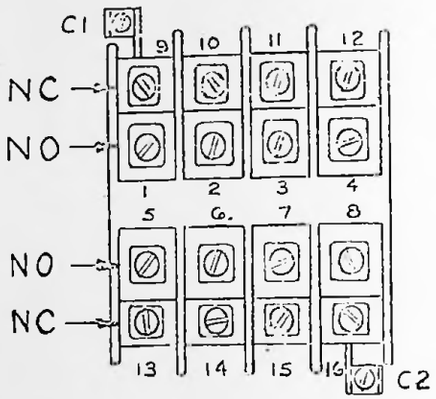
B SIZE — 3732118 — SHEET

3732118

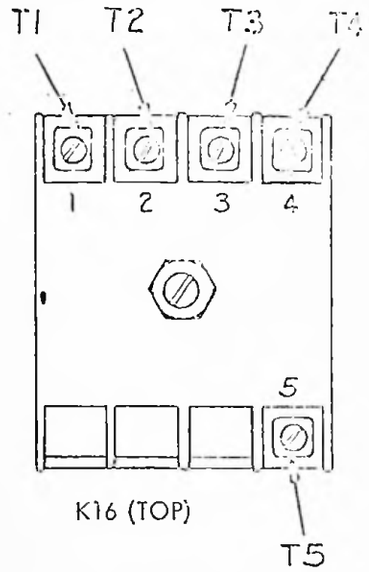
Figure 5. Control Cabinet MI-560576 Wire Chart — 3732118 (Sheet 2 of 33)

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

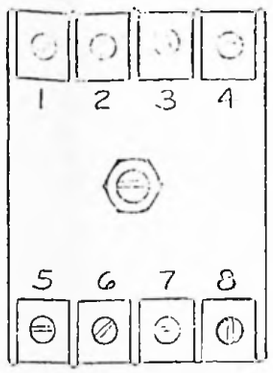
REVISIONS	
AP. BY	0
DATE	



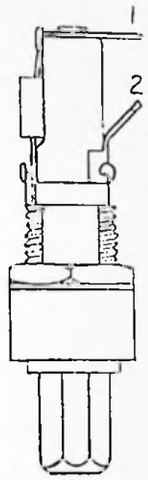
K6, K9, K14,
K16(LOWER)
K1 & K7 (LOWER)



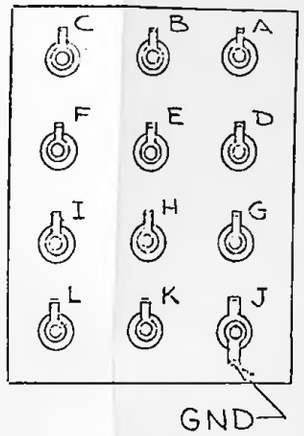
K16 (TOP)



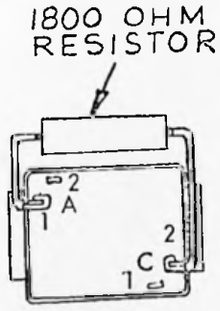
K5 & K10



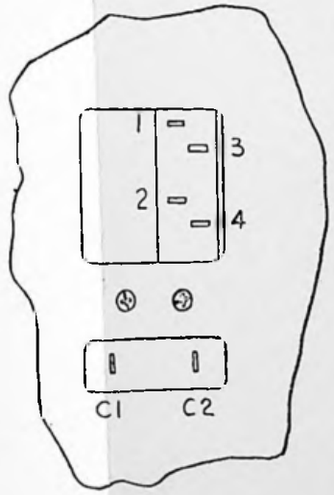
XFS1 THRU XFS12



XDS9 & XDS11

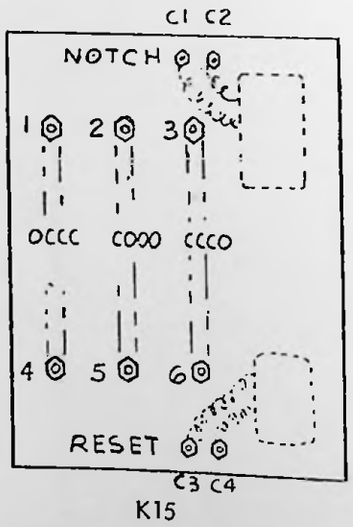


XDS1 THRU XDS8

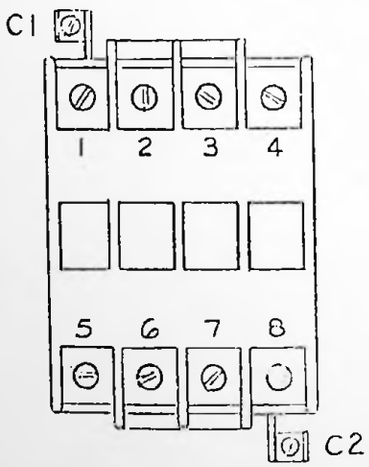


K19 THUR K26

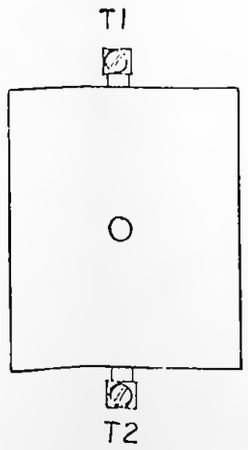
(REAR)



K15



K4, K17, K18 & K32



K1 & K7 (TOP)

UNLESS OTHERWISE MARKED			
BASIC DIMENSIONS	2 PLACE DECIMALS		3 PLACE DECIMALS
UP TO 6	.02		.005
ABOVE 6 TO 24	.05		.010
ABOVE 24	.06		.015
ANGULAR DIMENSIONS	DEG		
SEE PURCH. SPEC. FOR STOCK TOLERANCE			

FIRST MADE FOR — USED ON

DRAWN BY

CHECKED BY

DESIGNED BY

COMMODITY CODE

RADIO CORPORATION OF AMERICA

B — 3732118

SIZE — SHEET

3732118

Figure 5. Control Cabinet MI-560576 Wire Chart — 3732118 (Sheet 3 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
1 E1		2 K31-1	133	C
1 E2		2 K31-7	134	C
1 E3		2 XDS10-A1	176	C
1 E4		2 XDS10-C1	178	C
1 E5		2 XDS10-D1	179	C
1 E6		2 XDS10-E1	180	C
1 E7		2 XDS10-F1	181	C
1 E10		2 K3-C1	20	C
1 E11		2 S16-3	226	C
1 E13		2 K8-4	46	C
1 E14		2 K6-5	28	C
1 E15		2 K19-C1	106	C
1 E16		2 K19-C2	107	C
1 E17		2 K20-C1	108	C
1 E18		2 K20-C2	109	C
1 E19		2 K21-C1	110	C
1 E20		2 K21-C2	111	C
1 E21		2 K22-C1	112	C
1 E22		2 K22-C2	113	C
1 E23		2 K23-C1	114	C
1 E24		2 K24-C1	115	C
1 E25		2 K24-C2	116	C
1 E26		2 K25-C1	117	C
1 E27		2 K25-C2	118	C
1 E28		2 K26-C1	121	C
1 E29		2 K26-C2	122	C
1 E30		2 M2- POS	406	B
1 E31		2 M2- NEG	407	B
1 E33		2 M3- POS	408	B
1 E34		2 M3- NEG	409	B
1 E36		2 K11-11	71	C
1 E44		2 S17-5	354	B
1 E45		2 S17-2	353	B
1 E46		2 S9-2	324	B
1 E47		2 S9-5	327	B
1 E48		2 S10-2	330	B
1 E49		2 S10-5	333	B

Figure 5. Control Cabinet MI-560576 Wire Chart – 3732118 (Sheet 4 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
1 E50		2 S11-2	336	B
1 E51		2 S11-5	339	B
1 E52		2 S12-2	342	B
1 E53		2 S12-5	345	B
1 E54		2 S13-2	348	B
1 E55		2 S13-5	351	B
1 E56		2 S29-2	363	B
1 E57		2 S29-5	365	B
1 E58		2 K8-5	47	C
1 E59		2 K8-6	48	C
1 E60		2 S22-T1	161	C
1 E61		2 S22-T2	162	C
1 E62		2 S23-T1	163	C
1 E63		2 S23-T2	164	C
1 E64		2 K12-5	75	C
1 E65		2 K12-6	76	C
1 E66		2 XF12-2	203	C
1 E67		2 A4-7	206	C
2 A4-1		2 E68	200	C
2 A4-2		2 E69	201	C
2 A4-3		2 A4-6	202	C
2 A4-5		2 XF12-1	206	C
2 A4-6		2 XF11-1	204	C
2 A4-6		2 A4-3	202	C
2 A4-7		2 E81	236	C
2 A4-7		2 A4-8	205	C
2 A4-7		1 E67	206	C
2 A4-8		2 GND	207	C
2 A4-8		2 S17-3	357	B
2 A4-8		2 A4-7	205	C
2 A5TB1-1		2 E12	257	C
2 A5TB1-1		2 XK34-7	273	C
2 A5TB1-2		2 A5TB1-3	258	C
2 A5TB1-3		2 XK34-2	274	C
2 A5TB1-3		2 A5TB1-2	258	C
2 A5TB1-4		2 A5TB1-5	261	C
2 A5TB1-5		2 XK33-2	275	C

Figure 5. Control Cabinet MI-560576 Wire Chart – 3732118 (Sheet 5 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
2 A5TB1-5		2 A5TB1-4	261	C
2 A5TB1-6		2 XK33-1	276	C
2 A5TB1-6		2 A5TB1-7	263	C
2 A5TB1-7		2 A5TB1-6	263	C
2 A5TB1-7		2 A5TB1-8	267	C
2 A5TB1-8		2 A5TB1-9	268	C
2 A5TB1-8		2 A5TB1-7	267	C
2 A5TB1-9		2 A5TB1-10	265	C
2 A5TB1-9		2 A5TB1-8	268	C
2 A5TB1-10		2 E11	266	C
2 A5TB1-10		2 A5TB1-9	265	C
2 E1		2 S16-3	149	C
2 E3		2 XDS10-G1	182	C
2 E4		2 XDS10-H1	183	C
2 E5		2 XDS10-I1	184	C
2 E6		2 XDS10-J1	185	C
2 E7		2 XDS10-K1	186	C
2 E7		2 K11-3	69	C
2 E8		2 K7-1	33	C
2 E8		2 K11-4	70	C
2 E8		2 XDS10-L1	187	C
2 E9		2 E11	246	C
2 E9		2 K7-10	36	C
2 E10		2 XDS10-B1	177	C
2 E11		2 K1-10	7	C
2 E11		2 T1-X1	165	C
2 E11		2 A5TB1-10	266	C
2 E11		2 E9	246	C
2 E12		2 E67	213	C
2 E12		2 A5TB1-1	257	C
2 E12		2 T1-X3	166	C
2 E12		2 E17	244	C
2 E13		2 K9-3	57	C
2 E14		2 K12-8	77	C
2 E15		2 K1-5	3	C
2 E16		2 K7-3	230	C
2 E16		2 K12-4	74	C

Figure 5. Control Cabinet MI-560576 Wire Chart – 3732118 (Sheet 6 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
2 E17		2 E12	244	C
2 E17		2 K27-C1	516	G
2 E18		2 K27-C2	518	G
2 E19		2 K28-C2	519	G
2 E20		2 K29-C1	520	H
2 E21		2 K29-C2	521	H
2 E22		2 K30-C1	522	H
2 E23		2 K30-C2	523	H
2 E25		2 S25-1	504	H
2 E25		2 E26	507	H
2 E26		2 S20-L1	526	H
2 E26		2 K2-L1	501	H
2 E26		2 E25	507	H
2 E26		2 K17-C1	512	H
2 E27		2 S25-2	505	H
2 E27		2 E28	508	H
2 E28		2 S20-L2	527	H
2 E28		2 K2-L2	502	H
2 E28		2 E27	508	H
2 E28		2 K17-C2	513	H
2 E29		2 S25-3	506	H
2 E29		2 E30	509	H
2 E30		2 S19-L1	524	H
2 E30		2 K2-L3	503	H
2 E30		2 E29	509	H
2 E30		2 K18-C2	515	H
2 E31		2 K3-5	231	G
2 E32		2 K3-6	232	G
2 E33		2 K3-7	233	G
2 E34		2 K4-C1	510	G
2 E34		2 XF7-1	209	C
2 E35		2 K4-C2	511	G
2 E35		2 XF8-1	210	C
2 E36		2 XF9-1	211	C
2 E37		2 K1-3	247	C
2 E38		2 K13-4	83	C
2 E39		2 J2-16	311	B

Figure 5. Control Cabinet MI-560576 Wire Chart – 3732118 (Sheet 7 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
2 E39		2 XK33-6	262	C
2 E40		2 J2-13	309	B
2 E41		2 J2-14	310	B
2 E42		2 XK34-6	264	C
2 E42		2 J3-16	321	B
2 E43		2 J3-13	319	B
2 E44		2 J3-14	320	B
2 E45		2 K9-6	58	C
2 E45		2 XK34-3	260	C
2 E46		2 K9-7	59	C
2 E46		2 XK34-8	259	C
2 E52		2 K1-T1	13	C
2 E52		2 S1- NO	138	C
2 E53		2 S2- NO	140	C
2 E53		2 K1-C1	9	C
2 E54		2 K4-6	22	C
2 E54		2 K10-3	66	C
2 E54		2 S5- COM	141	C
2 E55		2 K10-4	68	C
2 E55		2 S5- NO	142	C
2 E56		2 K7-T1	41	C
2 E56		2 S6- NO	144	C
2 E57		2 K7-C1	39	C
2 E57		2 S7- NO	146	C
2 E58		2 K15-C3	104	C
2 E58		2 S8- NO	147	C
2 E59		2 XDS1-A2	168	C
2 E59		2 K1-14	8	C
2 E60		2 XDS2-A2	169	C
2 E60		2 K3-C1	19	C
2 E61		2 XDS3-A2	170	C
2 E61		2 K10-1	63	C
2 E62		2 K7-1	35	C
2 E62		2 XDS4-A2	171	C
2 E63		2 K6-5	29	C
2 E63		2 XDS5-A2	172	C
2 E64		2 XDS6-A2	173	C

Figure 5. Control Cabinet MI-560576 Wire Chart — 3732118 (Sheet 8 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
2 E64		2 K7-14	242	C
2 E65		2 K9-8	212	C
2 E65		2 XDS7-A2	174	C
2 E66		2 K15-4	100	C
2 E66		2 XDS8-A2	175	C
2 E67		2 K1-C2	10	C
2 E67		2 E12	213	C
2 E67		2 K13-C1	88	C
2 E68		2 A4-1	200	C
2 E69		2 A4-2	201	C
2 E70		2 XF1-1	528	W
2 E71		2 XF2-1	529	W
2 E72		2 XF3-1	530	W
2 E73		2 S26-A1	384	B
2 E73		2 XF1-2	434	B
2 E74		2 S26-B3	385	B
2 E74		2 XF2-2	435	B
2 E75		2 S26-A5	386	B
2 E75		2 XF3-2	436	B
2 E76		2 XF7-2	440	B
2 E77		2 XF8-2	441	B
2 E78		2 XF9-2	442	B
2 E81		2 A4-7	236	C
2 E82		2 S17-6	237	C
2 E83		2 K10-1	64	C
2 E83		2 M5-1	251	C
2 E84		2 K5-2	25	C
2 E84		2 M5-2	252	C
2 E85	CTR	2 M1- NEG	718	Z
2 E85		2 E86	720	X
2 E86	CTR	2 S30-A11	721	Z
2 E86		2 E85	720	X
2 E87	SHLD	2 GND	718	Z
2 E87	SHLD	2 GND	721	Z
2 E88	CTR	2 S30-B5	723	Z
2 E88		2 E89	725	X
2 E89		2 E90	726	X

FROM	CONDUCTOR	TO	WIRE	CODE
2 E89		2 E88	725	X
2 E90	SHLD	2 GND	723	Z
2 E90		2 E89	726	X
2 E91	CTR	2 S30-B11	727	Z
2 E91		2 E92	729	X
2 E92		2 E93	730	X
2 E92		2 E91	729	X
2 E93	SHLD	2 GND	727	Z
2 E93		2 E92	730	X
2 E94	CTR	2 S30-A5	731	Z
2 E94		2 E95	733	X
2 E95		2 E96	734	X
2 E95		2 E94	733	X
2 E96	SHLD	2 GND	731	Z
2 E96		2 E95	734	X
2 GND		2 A4-8	207	C
2 GND	SHLD	2 E87	718	Z
2 GND		2 T1-X1	214	C
2 GND	SHLD	2 E87	721	Z
2 GND	SHLD	2 E90	723	Z
2 GND	SHLD	2 E93	727	Z
2 GND	SHLD	2 E96	731	Z
2 GND		2 R21-2	795	
2 GND		2 S30-A8	735	X
2 GND	SHLD	2 J4	742	T
2 GND	SHLD	2 J5	746	T
2 GND	SHLD	2 J6	750	T
2 J1-3		2 K6-C2	92	C
2 J1-8		2 XDS10-A2	188	C
2 J1-9		2 XDS10-B2	189	C
2 J1-10		2 XDS10-C2	190	C
2 J1-11		2 XDS10-D2	191	C
2 J1-12		2 XDS10-E2	192	C
2 J1-13		2 XDS10-F2	193	C
2 J1-14		2 XDS10-G2	194	C
2 J1-15		2 XDS10-H2	195	C
2 J1-16		2 XDS10-I2	196	C

Figure 5. Control Cabinet MI-560576 Wire Chart — 3732118 (Sheet 10 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
2 J1-17		2 XDS10-J2	197	C
2 J1-18		2 XDS10-K2	198	C
2 J1-19		2 XDS10-L2	199	C
2 J2-1		2 XDS9-D	413	B
2 J2-2		2 XDS9-E	414	B
2 J2-3		2 XDS9-F	415	B
2 J2-4		2 XDS9-J	419	B
2 J2-5		2 XDS9-K	420	B
2 J2-6		2 S9-13	301	B
2 J2-6		2 J2-7	302	B
2 J2-7		2 J3-6	303	B
2 J2-7		2 J2-6	302	B
2 J2-8		2 K19-4	304	B
2 J2-9		2 K20-4	305	B
2 J2-10		2 K29-4	306	B
2 J2-11		2 K27-4	307	B
2 J2-12		2 K21-4	308	B
2 J2-13		2 E40	309	B
2 J2-14		2 E41	310	B
2 J2-16		2 E39	311	B
2 J2-19		2 XDS9-I	418	B
2 J2-20		2 XDS9-H	417	B
2 J2-21		2 XDS9-G	416	B
2 J2-22		2 XDS9-L	421	B
2 J3-1		2 XDS11-D	424	B
2 J3-2		2 XDS11-E	425	B
2 J3-3		2 XDS11-F	426	B
2 J3-4		2 XDS11-G	427	B
2 J3-5		2 XDS11-K	431	B
2 J3-6		2 J3-7	312	B
2 J3-6		2 J2-7	303	B
2 J3-7		2 XDS11-A	313	B
2 J3-7		2 J3-6	312	B
2 J3-8		2 K22-4	314	B
2 J3-9		2 K23-4	315	B
2 J3-10		2 K30-4	316	B
2 J3-11		2 K25-4	317	B

Figure 5. Control Cabinet MI-560576 Wire Chart — 3732118 (Sheet 11 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
2 J3-12		2 K24-4	318	B
2 J3-13		2 E43	319	B
2 J3-14		2 E44	320	B
2 J3-16		2 E42	321	B
2 J3-17		2 K26-4	322	B
2 J3-19		2 XDS11-J	430	B
2 J3-20		2 XDS11-I	429	B
2 J3-21		2 XDS11-H	428	B
2 J3-22		2 XDS11-L	432	B
2 J4	CTR	2 R10-3	742	T
2 J4	SHLD	2 GND	742	T
2 J5	CTR	2 R20-B1	746	T
2 J5	SHLD	2 GND	746	T
2 J6	CTR	2 R11-3	750	T
2 J6	SHLD	2 GND	750	T
2 J7	CTR	60 P1	704	T
2 J7	SHLD	60 P1	704	T
2 J8	CTR	60 P12	705	T
2 J8	SHLD	60 P12	705	T
2 K1-1		2 K1-10	1	C
2 K1-2		2 K18-5	2	C
2 K1-3		2 E37	247	C
2 K1-5		2 E15	3	C
2 K1-6		2 K2-C2	4	C
2 K1-7		2 K14-11	248	C
2 K1-10		2 K4-2	5	C
2 K1-10		2 K32-1	6	C
2 K1-10		2 E11	7	C
2 K1-10		2 K1-1	1	C
2 K1-14		2 E59	8	C
2 K1-C1		2 E53	9	C
2 K1-C2		2 E67	10	C
2 K1-C2		2 K3-2	11	C
2 K1-C2		2 K1-T2	12	C
2 K1-T1		2 E52	13	C
2 K1-T2		2 K1-C2	12	C
2 K2-2		2 K3-C2	14	C

Figure 5. Control Cabinet MI-560576 Wire Chart – 3732118 (Sheet 12 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
2 K2-C1		2 K8-C2	16	C
2 K2-C2		2 K1-6	4	C
2 K2-L1		2 E26	501	H
2 K2-L2		2 E28	502	H
2 K2-L3		2 E30	503	H
2 K3-1		2 S25-4	216	G
2 K3-2		2 S25-5	218	G
2 K3-3		2 S25-6	220	G
2 K3-4		2 K7-5	17	C
2 K3-5		2 E31	231	G
2 K3-6		2 E32	232	G
2 K3-7		2 E33	233	G
2 K3-8		2 K8-C1	18	C
2 K3-C1		2 E60	19	C
2 K3-C1		1 E10	20	C
2 K3-C2		2 K2-2	14	C
2 K4-2		2 K9-4	21	C
2 K4-2		2 K1-10	5	C
2 K4-6		2 E54	22	C
2 K4-C1		2 E34	510	G
2 K4-C2		2 E35	511	G
2 K5-1		2 K5-3	23	C
2 K5-2		2 K6-C2	24	C
2 K5-2		2 E84	25	C
2 K5-2		2 K1-C2	11	C
2 K5-3		2 K10-1	26	C
2 K5-3		2 K5-1	23	C
2 K5-4		2 K10-4	243	C
2 K6-1		2 K15-6	27	C
2 K6-5		1 E14	28	C
2 K6-5		2 E63	29	C
2 K6-C1		2 K10-4	30	C
2 K6-C2		2 K10-6	31	C
2 K6-C2		2 J1-3	32	C
2 K6-C2		2 K5-2	24	C
2 K7-1		2 E8	33	C
2 K7-1		2 K14-10	34	C

Figure 5. Control Cabinet MI-560576 Wire Chart – 3732118 (Sheet 13 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
2 K7-1		2 E62	35	C
2 K7-3		2 E16	250	C
2 K7-5		2 K3-4	17	C
2 K7-7		2 K14-15	249	C
2 K7-10		2 E9	36	C
2 K7-10		2 K9-4	37	C
2 K7-10		2 K14-1	38	C
2 K7-12		2 K14-4	255	C
2 K7-12		2 K31-1	253	C
2 K7-14		2 E64	242	C
2 K7-16		2 K14-8	256	C
2 K7-16		2 K31-7	254	C
2 K7-C1		2 E57	39	C
2 K7-C2		2 K13-C1	40	C
2 K7-C2		2 K7-T2	43	C
2 K7-T1		2 E56	41	C
2 K7-T2		2 K9-C2	42	C
2 K7-T2		2 K7-C2	43	C
2 K8-1		2 S21-T1	44	C
2 K8-2		2 S21-T2	45	C
2 K8-4		1 E13	46	C
2 K8-5		1 E58	47	C
2 K8-6		1 E59	48	C
2 K8-8		2 S18-2	49	C
2 K8-C1		2 K3-8	18	C
2 K8-C2		2 K12-C2	50	C
2 K8-C2		2 K2-C1	16	C
2 K9-1		2 K9-4	245	C
2 K9-1		2 K11-1	51	C
2 K9-1		2 S15-1	52	C
2 K9-2		2 K26-1	53	C
2 K9-2		2 K27-1	54	C
2 K9-3		2 K26-2	55	C
2 K9-3		2 K27-2	56	C
2 K9-4		2 K4-2	21	C
2 K9-4		2 K9-1	245	C
2 K9-4		2 K7-10	37	C

Figure 5. Control Cabinet MI-560576 Wire Chart — 3732118 (Sheet 14 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
2 K9-5		2 E13	57	C
2 K9-6		2 E45	58	C
2 K9-7		2 E46	59	C
2 K9-8		2 E65	212	C
2 K9-C1		2 S18-3	60	C
2 K9-C2		2 K10-6	61	C
2 K9-C2		2 K7-T2	42	C
2 K10-1		2 K10-3	62	C
2 K10-1		2 E61	63	C
2 K10-1		2 E83	64	C
2 K10-1		2 K5-3	26	C
2 K10-2		2 K10-6	65	C
2 K10-3		2 E54	66	C
2 K10-3		2 K10-1	62	C
2 K10-4		2 K10-5	67	C
2 K10-4		2 E55	68	C
2 K10-4		2 K5-4	243	C
2 K10-4		2 K6-C1	30	C
2 K10-5		2 K10-4	67	C
2 K10-6		2 K6-C2	31	C
2 K10-6		2 K9-C2	61	C
2 K10-6		2 K10-2	65	C
2 K11-1		2 K9-1	51	C
2 K11-3		2 E7	69	C
2 K11-4		2 E8	70	C
2 K11-11		1 E36	71	C
2 K12-1		2 S24-T1	72	C
2 K12-2		2 S24-T2	73	C
2 K12-4		2 E16	74	C
2 K12-4		2 K12-C1	79	C
2 K12-5		1 E64	75	C
2 K12-6		1 E65	76	C
2 K12-8		2 E14	77	C
2 K12-8		2 S15-3	78	C
2 K12-C1		2 K12-4	79	C
2 K12-C2		2 K13-C1	80	C
2 K12-C2		2 K8-C2	90	C

Figure 5. Control Cabinet MI-560576 Wire Chart – 3732118 (Sheet 15 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
2 K13-1		2 T2-X1	81	C
2 K13-2		2 T2-X2	82	C
2 K13-4		2 E38	83	C
2 K13-5		2 S22-L1	84	C
2 K13-6		2 S22-L2	85	C
2 K13-8		2 K13-C2	86	C
2 K13-C1		2 K16-T4	87	C
2 K13-C1		2 E67	88	C
2 K13-C1		2 K7-C2	40	C
2 K13-C1		2 K12-C2	80	C
2 K13-C2		2 S15-2	89	C
2 K13-C2		2 K13-8	86	C
2 K14-1		2 K15-1	90	C
2 K14-1		2 K19-3	91	C
2 K14-1		2 K7-10	38	C
2 K14-4		2 K7-12	255	C
2 K14-5		2 K16-9	92	C
2 K14-8		2 K7-16	256	C
2 K14-10		2 K7-1	34	C
2 K14-11		2 K1-7	248	C
2 K14-14		2 K15-2	93	C
2 K14-15		2 K7-7	249	C
2 K14-C1		2 K15-C1	94	C
2 K14-C1		2 K16-13	95	C
2 K14-C2		2 K15-C2	96	C
2 K14-C2		2 K16-T4	97	C
2 K15-1		2 S1- COM	98	C
2 K15-1		2 K14-1	90	C
2 K15-2		2 S14-3	99	C
2 K15-2		2 K14-14	93	C
2 K15-3		2 K15-5	215	C
2 K15-4		2 E66	100	C
2 K15-5		2 S14-2	101	C
2 K15-5		2 K15-3	215	C
2 K15-6		2 K6-1	27	C
2 K15-C1		2 K19-1	102	C
2 K15-C1		2 K14-C1	94	C

Figure 5. Control Cabinet MI-5605/6 Wire Chart – 3/32118 (Sheet 16 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
2 K15-C2		2 K15-C4	103	C
2 K15-C2		2 K14-C2	96	C
2 K15-C3		2 E58	104	C
2 K15-C4		2 K15-C2	103	C
2 K16-9		2 K14-5	92	C
2 K16-13		2 K16-T1	239	C
2 K16-13		2 K14-C1	95	C
2 K16-C1		2 K16-T2	240	C
2 K16-C2		2 K16-T3	241	C
2 K16-T1		2 K16-13	239	C
2 K16-T2		2 K16-C1	240	C
2 K16-T3		2 K16-C2	241	C
2 K16-T4		2 K31-A	135	C
2 K16-T4		2 K13-C1	87	C
2 K16-T4		2 K14-C2	97	C
2 K17-1		2 K32-5	15	C
2 K17-5		2 K18-1	105	C
2 K17-C1		2 K32-C1	531	H
2 K17-C1		2 E26	512	H
2 K17-C2		2 E28	513	H
2 K17-C2		2 K18-C1	514	H
2 K18-1		2 K17-5	105	C
2 K18-5		2 K1-2	2	C
2 K18-C1		2 K17-C2	514	H
2 K18-C2		2 E30	515	H
2 K18-C2		2 K32-C2	532	H
2 K19-1		2 K20-1	601	XY
2 K19-1		2 K15-C1	102	C
2 K19-2		2 K20-2	608	XY
2 K19-2		2 S28-1	360	B
2 K19-3		2 K20-3	615	XY
2 K19-3		2 K14-1	91	C
2 K19-4		2 J2-8	304	B
2 K19-C1		1 E15	106	C
2 K19-C2		1 E16	107	C
2 K20-1		2 K21-1	602	XY
2 K20-1		2 K19-1	601	XY

Figure 5. Control Cabinet MI-560576 Wire Chart – 3732118 (Sheet 17 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
2 K20-2		2 K21-2	609	XY
2 K20-2		2 K19-2	608	XY
2 K20-3		2 K21-3	616	XY
2 K20-3		2 K19-3	615	XY
2 K20-4		2 J2-9	305	B
2 K20-C1		1 E17	108	C
2 K20-C2		1 E18	109	C
2 K21-1		2 K22-1	603	XY
2 K21-1		2 K20-1	602	XY
2 K21-2		2 K22-2	610	XY
2 K21-2		2 K20-2	609	XY
2 K21-3		2 K22-3	617	XY
2 K21-3		2 K20-3	616	XY
2 K21-4		2 J2-12	308	B
2 K21-C1		1 E19	110	C
2 K21-C2		1 E20	111	C
2 K22-1		2 K23-1	604	XY
2 K22-1		2 K21-1	603	XY
2 K22-2		2 K23-2	611	XY
2 K22-2		2 K21-2	610	XY
2 K22-3		2 K23-3	618	XY
2 K22-3		2 K21-3	617	XY
2 K22-4		2 J3-8	314	B
2 K22-C1		1 E21	112	C
2 K22-C2		1 E22	113	C
2 K22-C2		2 K23-C2	238	C
2 K23-1		2 K24-1	605	XY
2 K23-1		2 K22-1	604	XY
2 K23-2		2 K24-2	612	XY
2 K23-2		2 K22-2	611	XY
2 K23-3		2 K24-3	619	XY
2 K23-3		2 K22-3	618	XY
2 K23-4		2 J3-9	315	B
2 K23-C1		1 E23	114	C
2 K23-C2		2 K22-C2	238	C
2 K24-1		2 K25-1	606	XY
2 K24-1		2 K23-1	605	XY

Figure 5. Control Cabinet MI-560576 Wire Chart — 3732118 (Sheet 18 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
2 K24-2		2 K25-2	613	XY
2 K24-2		2 K23-2	612	XY
2 K24-3		2 K25-3	620	XY
2 K24-3		2 K23-3	619	XY
2 K24-4		2 J3-12	318	B
2 K24-C1		1 E24	115	C
2 K24-C2		1 E25	116	C
2 K25-1		2 K26-1	607	XY
2 K25-1		2 K24-1	606	XY
2 K25-2		2 K26-2	614	XY
2 K25-2		2 K24-2	613	XY
2 K25-3		2 K26-3	621	XY
2 K25-3		2 K24-3	620	XY
2 K25-4		2 J3-11	317	B
2 K25-C1		1 E26	117	C
2 K25-C2		1 E27	118	C
2 K26-1		2 K9-2	53	C
2 K26-1		2 K25-1	607	XY
2 K26-2		2 K27-2	119	C
2 K26-2		2 K9-3	55	C
2 K26-2		2 K25-2	614	XY
2 K26-3		2 K27-3	120	C
2 K26-3		2 K25-3	621	XY
2 K26-4		2 J3-17	322	B
2 K26-C1		1 E28	121	C
2 K26-C2		1 E29	122	C
2 K27-1		2 K28-1	123	C
2 K27-1		2 K9-2	54	C
2 K27-2		2 K28-2	124	C
2 K27-2		2 K9-3	56	C
2 K27-2		2 K26-2	119	C
2 K27-3		2 K28-3	125	C
2 K27-3		2 K26-3	120	C
2 K27-4		2 K28-4	126	C
2 K27-4		2 J2-11	307	B
2 K27-C1		2 E17	516	G
2 K27-C1		2 K28-C1	517	G

Figure 5. Control Cabinet MI-560576 Wire Chart — 3732118 (Sheet 19 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
2 K27-C2		2 E18	518	G
2 K28-1		2 K29-1	127	C
2 K28-1		2 K27-1	123	C
2 K28-2		2 K29-2	128	C
2 K28-2		2 K27-2	124	C
2 K28-3		2 K29-3	129	C
2 K28-3		2 K27-3	125	C
2 K28-4		2 K27-4	126	C
2 K28-C1		2 K27-C1	517	G
2 K28-C2		2 E19	519	G
2 K29-1		2 K30-1	130	C
2 K29-1		2 K28-1	127	C
2 K29-2		2 K30-2	131	C
2 K29-2		2 K28-2	128	C
2 K29-3		2 K30-3	132	C
2 K29-3		2 K28-3	129	C
2 K29-4		2 J2-10	306	R
2 K29-C1		2 E20	520	H
2 K29-C2		2 E21	521	H
2 K30-1		2 K29-1	130	C
2 K30-2		2 K29-2	131	C
2 K30-3		2 K29-3	132	C
2 K30-4		2 J3-10	316	B
2 K30-C1		2 E22	522	H
2 K30-C2		2 E23	523	H
2 K31-1		1 E1	133	C
2 K31-1		2 K7-12	253	C
2 K31-7		1 E2	134	C
2 K31-7		2 K7-16	254	C
2 K31-A		2 K16-T4	135	C
2 K31-B		2 S15-3	136	C
2 K32-1		2 K1-10	6	C
2 K32-5		2 K17-1	15	C
2 K32-C1		2 K17-C1	531	H
2 K32-C2		2 K18-C2	532	H
2 M1- POS		2 R20-A1	754	XY
2 M1- NEG	CTR	2 E85	718	Z

Figure 5. Control Cabinet MI-560576 Wire Chart -- 3732118 (Sheet 20 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
2 M2- POS		1 E30	406	B
2 M2- NEG		1 E31	407	B
2 M3- POS		1 E33	408	B
2 M3- NEG		1 E34	409	B
2 M4- POS		2 S26-C20	404	B
2 M4- NEG		2 S26-D20	405	B
2 M5-1		2 E83	251	C
2 M5-2		2 E84	252	C
2 R1-1		2 XDS1-A1	640	Y
2 R1-2		2 XDS1-C2	641	Y
2 R2-1		2 XDS2-A1	642	Y
2 R2-2		2 XDS2-C2	643	Y
2 R3-1		2 XDS3-A1	644	Y
2 R3-2		2 XDS3-C2	645	Y
2 R4-1		2 XDS4-A1	646	Y
2 R4-2		2 XDS4-C2	647	Y
2 R5-1		2 XDS5-A1	648	Y
2 R5-2		2 XDS5-C2	649	Y
2 R6-1		2 XDS6-A1	650	Y
2 R6-2		2 XDS6-C2	651	Y
2 R7-1		2 XDS7-A1	652	Y
2 R7-2		2 XDS7-C2	653	Y
2 R8-1		2 XDS8-A1	654	Y
2 R8-2		2 XDS8-C2	655	Y
2 R10-1		2 R10-3	756	X
2 R10-1		2 R10-2	757	X
2 R10-1		2 R12-3	758	XY
2 R10-2		2 R10-1	757	X
2 R10-3	CTR	2 J4	742	T
2 R10-3		2 R10-1	756	X
2 R11-1		2 R11-2	761	X
2 R11-1		2 S30-C1	762	XY
2 R11-2		2 R11-1	761	X
2 R11-3	CTR	2 J6	750	T
2 R12-1		2 R12-2	766	X
2 R12-1		2 S30-C4	767	XY
2 R12-2		2 R12-1	766	X

Figure 5. Control Cabinet MI-560576 Wire Chart — 3732118 (Sheet 21 of 33)

FROM		CONDUCTOR	TO		WIRE	CODE
2 R12-3			2 S30-C8		768	XY
2 R12-3			2 R10-1		758	XY
2 R17-1			2 S30-C1		770	XY
2 R17-1			2 R17-2		771	X
2 R17-2			2 R17-1		771	X
2 R17-3			2 S30-B2		772	XY
2 R18-1			2 R18-2		775	X
2 R18-1			2 R20-B3		776	XY
2 R18-2			2 R18-1		775	X
2 R18-3			2 S30-B7		777	XY
2 R19-1			2 R19-2		780	X
2 R19-1			2 S30-C4		781	XY
2 R19-2			2 R19-1		780	X
2 R19-3			2 S30-A1		782	XY
2 R20-A1			2 R20-A2		785	X
2 R20-A1			2 S30-C5		786	XY
2 R20-A1			2 M1-	POS	754	XY
2 R20-A2			2 R20-A1		785	X
2 R20-A3			2 S30-C11		787	XY
2 R20-B1			2 S30-C9		790	XY
2 R20-B1			2 R20-B2		791	X
2 R20-B1		CTR	2 J5		746	T
2 R20-B2			2 R20-B1		791	X
2 R20-B3			2 R18-1		776	XY
2 R21-1			2 S30-A8		794	
2 R21-2			2 GND		795	
2 S1-	COM		2 S2-	COM	137	C
2 S1-	NO		2 E52		138	C
2 S1-	COM		2 K15-1		98	C
2 S2-	COM		2 S6-	COM	139	C
2 S2-	NO		2 E53		140	C
2 S2-	COM		2 S1-	COM	137	C
2 S5-	COM		2 E54		141	C
2 S5-	NO		2 E55		142	C
2 S6-	COM		2 S7-	COM	143	C
2 S6-	NO		2 E56		144	C
2 S6-	COM		2 S2-	COM	139	C

Figure 5. Control Cabinet MI-560576 Wire Chart – 3732118 (Sheet 22 of 33)

FROM		CONDUCTOR	TO		WIRE	CODE
2 S7-	COM		2 S8-	COM	145	C
2 S7-	NO		2 E57		146	C
2 S7-	COM		2 S6-	COM	143	C
2 S8-	NO		2 E58		147	C
2 S8-	COM		2 S7-	COM	145	C
2 S9-1			2 S9-6		323	B
2 S9-1			2 S10-1		328	B
2 S9-2			1 E46		324	B
2 S9-3			2 S9-4		325	B
2 S9-3			2 S17-3		358	B
2 S9-4			2 S10-4		326	B
2 S9-4			2 S9-3		325	B
2 S9-5			1 E47		327	B
2 S9-6			2 S17-6		356	B
2 S9-6			2 S9-1		323	B
2 S9-13			2 J2-6		301	B
2 S10-1			2 S10-6		329	B
2 S10-1			2 S11-1		334	B
2 S10-1			2 S9-1		328	B
2 S10-2			1 E48		330	B
2 S10-3			2 S10-4		331	B
2 S10-4			2 S11-4		332	B
2 S10-4			2 S9-4		326	B
2 S10-4			2 S10-3		331	B
2 S10-5			1 E49		333	B
2 S10-6			2 S10-1		329	B
2 S11-1			2 S11-6		335	B
2 S11-1			2 S12-1		340	B
2 S11-1			2 S10-1		334	B
2 S11-2			1 E50		336	B
2 S11-3			2 S11-4		337	B
2 S11-4			2 S12-4		338	B
2 S11-4			2 S10-4		332	B
2 S11-4			2 S11-3		337	B
2 S11-5			1 E51		339	B
2 S11-6			2 S11-1		335	B
2 S12-1			2 S12-6		341	B

Figure 5. Control Cabinet MI-560576 Wire Chart – 3732118 (Sheet 23 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
2 S12-1		2 S13-1	346	B
2 S12-1		2 S11-1	340	B
2 S12-2		1 E52	342	B
2 S12-3		2 S12-4	343	B
2 S12-4		2 S13-4	344	B
2 S12-4		2 S11-4	338	B
2 S12-4		2 S12-3	343	B
2 S12-5		1 E53	345	B
2 S12-6		2 S12-1	341	B
2 S13-1		2 S13-6	347	B
2 S13-1		2 S29-1	352	B
2 S13-1		2 S12-1	346	B
2 S13-2		1 E54	348	B
2 S13-3		2 S13-4	349	B
2 S13-4		2 S29-4	350	B
2 S13-4		2 S12-4	344	B
2 S13-4		2 S13-3	349	B
2 S13-5		1 E55	351	B
2 S13-6		2 S13-1	347	B
2 S14-2		2 K15-5	101	C
2 S14-3		2 K15-2	99	C
2 S15-1		2 K9-1	52	C
2 S15-2		2 K13-C2	89	C
2 S15-3		2 K12-8	78	C
2 S15-3		2 K31-8	136	C
2 S16-2		2 XFS10-2	148	C
2 S16-3		1 E11	226	C
2 S16-3		2 E1	149	C
2 S16-3		2 XDS1-C1	150	C
2 S17-2		1 E45	353	B
2 S17-3		2 A4-8	357	B
2 S17-3		2 S9-3	358	B
2 S17-5		1 E44	354	B
2 S17-6		2 E82	237	C
2 S17-6		2 XF11-2	355	B
2 S17-6		2 S9-6	356	B
2 S18-2		2 K8-8	49	C

Figure 5. Control Cabinet MI-560576 Wire Chart — 3732118 (Sheet 24 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
2 S18-3		2 K9-C1	60	C
2 S19-L1		2 E30	524	H
2 S19-L2		2 S20-L2	525	H
2 S19-T1		2 T1-H1	151	C
2 S19-T2		2 T1-H2	152	C
2 S20-L1		2 E26	526	H
2 S20-L2		2 E28	527	H
2 S20-L2		2 S19-L2	525	H
2 S20-T1		2 T1-H1	153	C
2 S20-T2		2 T1-H2	154	C
2 S21-L1		2 S24-L1	155	C
2 S21-L1		2 T2-X1	156	C
2 S21-L2		2 S24-L2	157	C
2 S21-L2		2 T2-X2	158	C
2 S21-T1		2 K8-1	44	C
2 S21-T2		2 K8-2	45	C
2 S22-L1		2 S23-L1	159	C
2 S22-L1		2 K13-5	84	C
2 S22-L2		2 S23-L2	160	C
2 S22-L2		2 K13-6	85	C
2 S22-T1		1 E60	161	C
2 S22-T2		1 E61	162	C
2 S23-L1		2 S22-L1	159	C
2 S23-L2		2 S22-L2	160	C
2 S23-T1		1 E62	163	C
2 S23-T2		1 E63	164	C
2 S24-L1		2 S21-L1	155	C
2 S24-L2		2 S21-L2	157	C
2 S24-T1		2 K12-1	72	C
2 S24-T2		2 K12-2	73	C
2 S25-1		2 E25	504	H
2 S25-2		2 E27	505	H
2 S25-3		2 E29	506	H
2 S25-4		2 K3-1	216	G
2 S25-4		2 XF4-1	217	G
2 S25-5		2 K3-2	218	G
2 S25-5		2 XF5-1	219	G

Figure 5. Control Cabinet MI-560576 Wire Chart – 3732118 (Sheet 25 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
2 S25-6		2 XF6-1	230	G
2 S25-6		2 K3-3	220	G
2 S26-A1		2 E73	384	B
2 S26-A1		2 S26-B5	366	B
2 S26-A3		2 S26-A5	367	B
2 S26-A5		2 E75	386	B
2 S26-A5		2 S26-A3	367	B
2 S26-A7		2 XF4-2	387	B
2 S26-A7		2 S26-B11	369	B
2 S26-A9		2 S26-A11	370	B
2 S26-A11		2 XF6-2	389	B
2 S26-A11		2 S26-A9	370	B
2 S26-A13		2 XF7-2	390	B
2 S26-A13		2 S26-B17	372	B
2 S26-A15		2 S26-A17	373	B
2 S26-A17		2 XF9-2	392	B
2 S26-A17		2 S26-A15	373	B
2 S26-A20		2 S26-C20	402	B
2 S26-B1		2 S26-B3	368	B
2 S26-B3		2 E74	385	B
2 S26-B3		2 S26-B1	368	B
2 S26-B5		2 S26-A1	366	B
2 S26-B7		2 S26-B9	371	B
2 S26-B9		2 XF5-2	388	B
2 S26-B9		2 S26-B7	371	B
2 S26-B11		2 S26-A7	369	B
2 S26-B13		2 S26-B15	374	B
2 S26-B15		2 XF8-2	391	B
2 S26-B15		2 S26-B13	374	B
2 S26-B17		2 S26-A13	372	B
2 S26-B20		2 S26-D20	403	B
2 S26-C2		2 S26-D6	375	B
2 S26-C2		3 E73	393	B
2 S26-C4		2 S26-C6	376	B
2 S26-C6		3 E75	395	B
2 S26-C6		2 S26-C4	376	B
2 S26-C8		3 XF4-2	396	B

Figure 5. Control Cabinet MI-560576 Wire Chart — 3732118 (Sheet 26 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
2 S26-C8		2 S26-D12	378	B
2 S26-C10		2 S26-C12	379	B
2 S26-C12		3 XF6-2	398	B
2 S26-C12		2 S26-C10	379	B
2 S26-C14		3 XF7-2	399	B
2 S26-C14		2 S26-D18	381	B
2 S26-C16		2 S26-C18	382	B
2 S26-C18		3 XF9-2	401	B
2 S26-C18		2 S26-C16	382	B
2 S26-C20		2 M4- POS	404	B
2 S26-C20		2 S26-A20	402	B
2 S26-D2		2 S26-D4	377	B
2 S26-D4		3 E74	394	B
2 S26-D4		2 S26-D2	377	B
2 S26-D6		2 S26-C2	375	B
2 S26-D8		2 S26-D10	380	B
2 S26-D10		3 XF5-2	397	B
2 S26-D10		2 S26-D8	380	B
2 S26-D12		2 S26-C8	378	B
2 S26-D14		2 S26-D16	383	B
2 S26-D16		3 XF8-2	400	B
2 S26-D16		2 S26-D14	383	B
2 S26-D18		2 S26-C14	381	B
2 S26-D20		2 M4- NEG	405	B
2 S26-D20		2 S26-B20	403	B
2 S28-1		2 S29-1	359	B
2 S28-1		2 K19-2	360	B
2 S28-2		2 XDS9- GRN	361	B
2 S29-1		2 S29-6	362	B
2 S29-1		2 S13-1	352	B
2 S29-1		2 S28-1	359	B
2 S29-2		1 E56	363	B
2 S29-3		2 S29-4	364	B
2 S29-4		2 S13-4	350	B
2 S29-4		2 S29-3	364	B
2 S29-5		1 E57	365	B
2 S29-6		2 S29-1	362	B

Figure 5. Control Cabinet MI-560576 Wire Chart — 3732118 (Sheet 27 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
2 S30-A1		2 S30-A3	798	X
2 S30-A1		2 R19-3	782	XY
2 S30-A3		2 S30-A1	798	X
2 S30-A5	CTR	2 E94	731	Z
2 S30-A5		2 S30-A10	802	XY
2 S30-A7		2 S30-B5	800	XY
2 S30-A8		2 GND	735	X
2 S30-A8		2 R21-1	794	
2 S30-A9		2 S30-B11	801	XY
2 S30-A10		2 S30-A5	802	XY
2 S30-A11	CTR	2 E86	721	Z
2 S30-B2		2 S30-B3	805	X
2 S30-B2		2 R17-3	772	XY
2 S30-B3		2 S30-B4	806	X
2 S30-B3		2 S30-B2	805	X
2 S30-B4		2 S30-B3	806	X
2 S30-B5	CTR	2 E88	723	Z
2 S30-B5		2 S30-A7	800	XY
2 S30-B7		2 S30-B8	807	X
2 S30-B7		2 R18-3	777	XY
2 S30-B8		2 S30-B10	808	XY
2 S30-B8		2 S30-B7	807	X
2 S30-B10		2 S30-B8	808	XY
2 S30-B11	CTR	2 E91	727	Z
2 S30-B11		2 S30-A9	801	XY
2 S30-C1		2 R11-1	762	XY
2 S30-C1		2 R17-1	770	XY
2 S30-C4		2 R19-1	781	XY
2 S30-C4		2 R12-1	767	XY
2 S30-C5		2 R20-A1	786	XY
2 S30-C8		2 R12-3	768	XY
2 S30-C9		2 R20-B1	790	XY
2 S30-C11		2 R20-A3	787	XY
2 T1-H1		2 S19-T1	151	C
2 T1-H2		2 S19-T2	152	C
2 T1-X1		2 GND	214	C
2 T1-X1		2 E11	165	C

Figure 5. Control Cabinet MI-560576 Wire Chart — 3732118 (Sheet 28 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
2 T1-X3		2 E12	166	C
2 T1-X3		2 XFS10-1	167	C
2 T2-X1		2 K13-1	81	C
2 T2-X2		2 S21-L2	158	C
2 T2-X2		2 K13-2	82	C
2 T1-H1		2 S20-T1	153	C
2 T1-H2		2 S20-T2	154	C
2 T2-X1		2 S21-L1	156	C
2 XDS1-A1		2 R1-1	640	Y
2 XDS1-A2		2 E59	168	C
2 XDS1-C1		2 XDS2-C1	622	XY
2 XDS1-C1		2 S16-3	150	C
2 XDS1-C2		2 R1-2	641	Y
2 XDS2-A1		2 R2-1	642	Y
2 XDS2-A2		2 E60	169	C
2 XDS2-C1		2 XDS3-C1	623	XY
2 XDS2-C1		2 XDS1-C1	622	XY
2 XDS2-C2		2 R2-2	643	Y
2 XDS3-A1		2 R3-1	644	Y
2 XDS3-A2		2 E61	170	C
2 XDS3-C1		2 XDS4-C1	624	XY
2 XDS3-C1		2 XDS2-C1	623	XY
2 XDS3-C2		2 R3-2	645	Y
2 XDS4-A1		2 R4-1	646	Y
2 XDS4-A2		2 E62	171	C
2 XDS4-C1		2 XDS5-C1	625	XY
2 XDS4-C1		2 XDS3-C1	624	XY
2 XDS4-C2		2 R4-2	647	Y
2 XDS5-A1		2 R5-1	648	Y
2 XDS5-A2		2 E63	172	C
2 XDS5-C1		2 XDS6-C1	626	XY
2 XDS5-C1		2 XDS4-C1	625	XY
2 XDS5-C2		2 R5-2	649	Y
2 XDS6-A1		2 R6-1	650	Y
2 XDS6-A2		2 E64	173	C
2 XDS6-C1		2 XDS7-C1	627	XY
2 XDS6-C1		2 XDS5-C1	626	XY

Figure 5. Control Cabinet MI-560576 Wire Chart – 3732118 (Sheet 29 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
2 XDS6-C2		2 R6-2	651	Y
2 XDS7-A1		2 R7-1	652	Y
2 XDS7-A2		2 E65	174	C
2 XDS7-C1		2 XDS8-C1	628	XY
2 XDS7-C1		2 XDS6-C1	627	XY
2 XDS7-C2		2 R7-2	653	Y
2 XDS8-A1		2 R8-1	654	Y
2 XDS8-A2		2 E66	175	C
2 XDS8-C1		2 XDS7-C1	628	XY
2 XDS8-C2		2 R8-2	655	Y
2 XDS9-	GRN	2 S28-2	361	B
2 XDS9-	GRN	2 XDS11- GRN	433	B
2 XDS9-A		2 XDS9-B	410	B
2 XDS9-B		2 XDS9-C	411	B
2 XDS9-B		2 XDS9-A	410	B
2 XDS9-C		2 XDS11-A	412	B
2 XDS9-C		2 XDS9-B	411	B
2 XDS9-D		2 J2-1	413	B
2 XDS9-E		2 J2-2	414	B
2 XDS9-F		2 J2-3	415	B
2 XDS9-G		2 J2-21	416	B
2 XDS9-H		2 J2-20	417	B
2 XDS9-I		2 J2-19	418	B
2 XDS9-J		2 J2-4	419	B
2 XDS9-K		2 J2-5	420	B
2 XDS9-L		2 J2-22	421	B
2 XDS10-A1		1 E3	176	C
2 XDS10-A2		2 J1-8	188	C
2 XDS10-B1		2 E10	177	C
2 XDS10-B2		2 J1-9	189	C
2 XDS10-C1		1 E4	178	C
2 XDS10-C2		2 J1-10	190	C
2 XDS10-D1		1 E5	179	C
2 XDS10-D2		2 J1-11	191	C
2 XDS10-E1		1 E6	180	C
2 XDS10-E2		2 J1-12	192	C
2 XDS10-F1		1 E7	181	C

Figure 5. Control Cabinet MI-560576 Wire Chart — 3732118 (Sheet 30 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
2 XDS10-F2		2 J1-13	193	C
2 XDS10-G1		2 E3	182	C
2 XDS10-G2		2 J1-14	194	C
2 XDS10-H1		2 E4	183	C
2 XDS10-H2		2 J1-15	195	C
2 XDS10-I1		2 E5	184	C
2 XDS10-I2		2 J1-16	196	C
2 XDS10-J1		2 E6	185	C
2 XDS10-J2		2 J1-17	197	C
2 XDS10-K1		2 E7	186	C
2 XDS10-K2		2 J1-18	198	C
2 XDS10-L1		2 E8	187	C
2 XDS10-L2		2 J1-19	199	C
2 XDS11- GRN		2 XDS9- GRN	433	B
2 XDS11-A		2 XDS11-B	422	B
2 XDS11-A		2 XDS9-C	412	B
2 XDS11-A		2 J3-7	313	B
2 XDS11-B		2 XDS11-C	423	B
2 XDS11-B		2 XDS11-A	422	B
2 XDS11-C		2 XDS11-B	423	B
2 XDS11-D		2 J3-1	424	B
2 XDS11-E		2 J3-2	425	B
2 XDS11-F		2 J3-3	426	B
2 XDS11-G		2 J3-4	427	B
2 XDS11-H		2 J3-21	428	B
2 XDS11-I		2 J3-20	429	B
2 XDS11-J		2 J3-19	430	B
2 XDS11-K		2 J3-5	431	B
2 XDS11-L		2 J3-22	432	B
2 XF1-1		2 E70	528	H
2 XF1-2		2 E73	434	B
2 XF2-1		2 E71	529	H
2 XF2-2		2 E74	435	B
2 XF3-1		2 E72	530	H
2 XF3-2		2 E75	436	B
2 XF4-1		2 S25-4	217	G
2 XF4-2		2 S26-A7	387	B

Figure 5. Control Cabinet MI-560576 Wire Chart – 3732118 (Sheet 31 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
2 XF5-1		2 S25-5	219	G
2 XF5-2		2 S26-B9	388	B
2 XF6-1		2 S25-6	230	G
2 XF6-2		2 S26-A11	389	B
2 XF7-1		2 E34	209	C
2 XF7-2		2 E76	440	B
2 XF7-2		2 S26-A13	390	B
2 XF8-1		2 E35	210	C
2 XF8-2		2 E77	441	B
2 XF8-2		2 S26-B15	391	B
2 XF9-1		2 E36	211	C
2 XF9-2		2 E78	442	B
2 XF9-2		2 S26-A17	392	B
2 XF11-1		2 A4-6	204	C
2 XF11-2		2 S17-6	355	B
2 XF12-1		2 A4-5	208	C
2 XF12-2		1 E66	203	C
2 XFS10-1		2 T1-X3	167	C
2 XFS10-2		2 S16-2	148	C
2 XK33-1		2 XK34-1	269	C
2 XK33-1		2 A5TB1-6	276	C
2 XK33-2		2 A5TB1-5	275	C
2 XK33-3		2 XK34-3	270	C
2 XK33-6		2 E39	262	C
2 XK33-7		2 XK34-7	271	C
2 XK33-8		2 XK34-8	272	C
2 XK34-1		2 XK33-1	269	C
2 XK34-2		2 A5TB1-3	274	C
2 XK34-3		2 E45	260	C
2 XK34-3		2 XK33-3	270	C
2 XK34-6		2 E42	264	C
2 XK34-7		2 XK33-7	271	C
2 XK34-7		2 A5TB1-1	273	C
2 XK34-8		2 E46	259	C
2 XK34-8		2 XK33-8	272	C
3 E73		2 S26-C2	393	B
3 E74		2 S26-D4	394	B

Figure 5. Control Cabinet MI-560576 Wire Chart – 3732118 (Sheet 32 of 33)

FROM	CONDUCTOR	TO	WIRE	CODE
3 E75		2 S26-C6	395	B
3 XF4-2		2 S26-C8	396	B
3 XF5-2		2 S26-D10	397	B
3 XF6-2		2 S26-C12	398	B
3 XF7-2		2 S26-C14	399	B
3 XF8-2		2 S26-D16	400	B
3 XF9-2		2 S26-C18	401	B
60 P1	CTR	2 J7	704	T
60 P1	SHLD	2 J7	704	T
60 P12	CTR	2 J8	705	T
60 P12	SHLD	2 J8	705	T

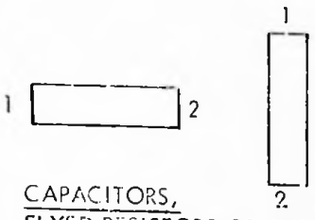
Figure 5. Control Cabinet MI-560576 Wire Chart – 3732118 (Sheet 33 of 33)

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B. UNLESS OTHERWISE SPECIFIED

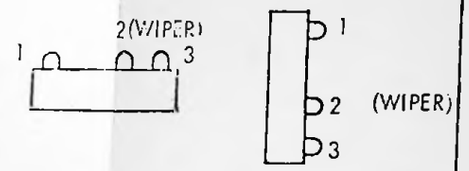
WIRE CODE

CODE LETTER	MECH'L PT. NO.	DESCRIPTION	CODE LETTER	MECH'L PT. NO.	DESCRIPTION
A	316	20 AWG 300 V BLK	X	327	18 AWG T/C BUS
B	317	18 AWG 300 V BLK	Y	330	SLEEVE
C	318	16 AWG 300 V BLK	Z	339	SHIELDED SINGLE
D	319	16 AWG 600 V BLK			
E		16 AWG T/C BUS			
F		SLEEVE			
G	320	14 AWG 600 V BLK			
H		12 AWG 600 V BLK			
I	321	8 AWG CABLE			
J	328	8 AWG T/C BUS			
K	331	SLEEVE			
L		1/0 AWG 600 V BLK			
M	322	4 AWG CABLE			
N	332	SLEEVE			
O	323	1/0 AWG CABLE			
P	333	SLEEVE			
Q	324	14 AWG 10KV WHT			
R	325	10 AWG 15KV WHT			
S	334	RG213U			
T	335	RG58 C/U			
U	336	RG59 B/U			
V	337	SHIELDED SINGLE			
W	338	SHIELDED PAIR			

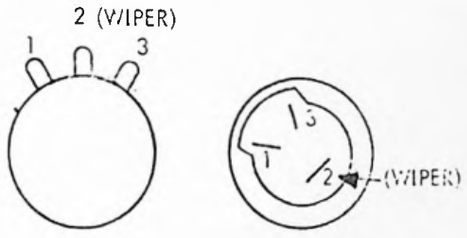
UNLESS OTHERWISE INDICATED COMPONENT TERMINALS TO BE AS SHOWN



CAPACITORS, FIXED RESISTORS OR INDUCTORS



VARIABLE RESISTORS



POTENTIOMETERS

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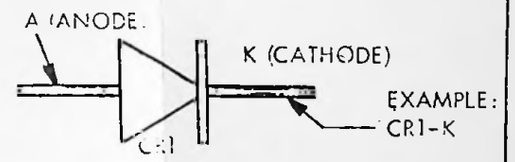
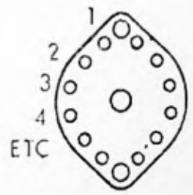


DIODES



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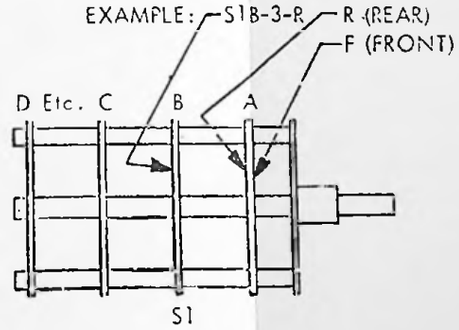

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1H090

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	± .02	± .005
ABOVE 6 TO 24	± .03	± .010
ABOVE 24	± .06	± .015
ANGULAR DIMENSIONS ± ½ DEG.		
SEE PURCH. SPEC. FOR STOCK TOLERANCE		

FIRST MADE FOR

USED ON

DRAWN BY

CHECKED BY

DESIGNED BY

COMMODITY CODE

RADIO CORPORATION OF AMERICA

CODE IDENT NO. 49671

SIZE B | 3732119

SHEET | CONT'D ON SH

3732119

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 1 of 35)

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

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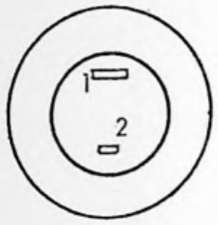
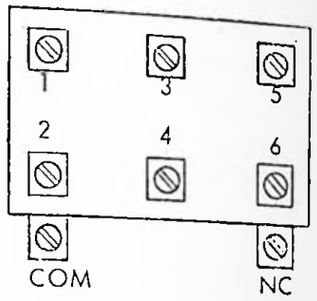
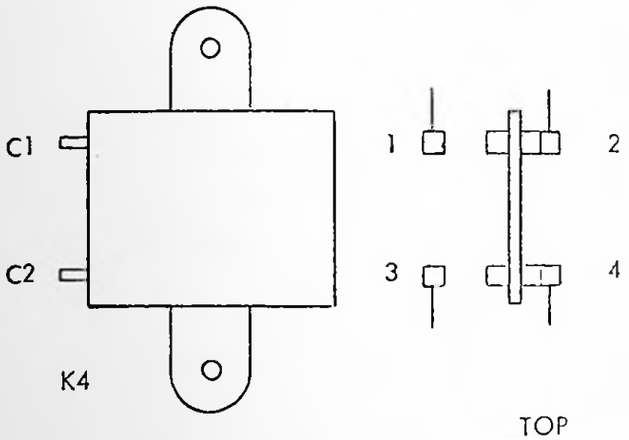
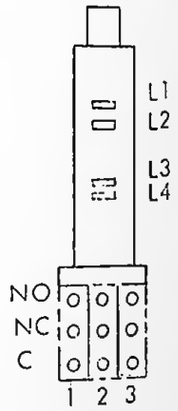


P30/J30 & 20P15

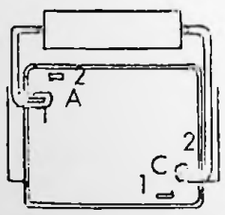


K2 & K3

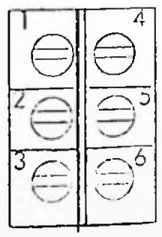




S14 THRU S22



XDS1 & XDS2



S5 THRU S13

S2 & S3

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			
BASIC DIMENSIONS	2 PLACE DECIMALS		3 PLACE DECIMALS
UP TO 6	± .02		± .005
ABOVE 6 TO 24	± .03		± .010
ABOVE 24	± .06		± .015
ANGULAR DIMENSIONS ± 1/2 DEG			
SEE PURCH. SPEC FOR STOCK TOLERANCE			

FIRST MADE FOR — USED ON

DRAWN BY

DESIGNED BY

CHECKED BY

COMMODITY CODE

RADIO CORPORATION OF AMERICA

CODE IDENT NO 49671

B SIZE | 3732119 | SHEET | CONT'D ON SH

3732119

Figure 6. Amplifier Cabinet MI-560577 Wire Chart — 3732119 (Sheet 2 of 35)

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.

FIGURE 1

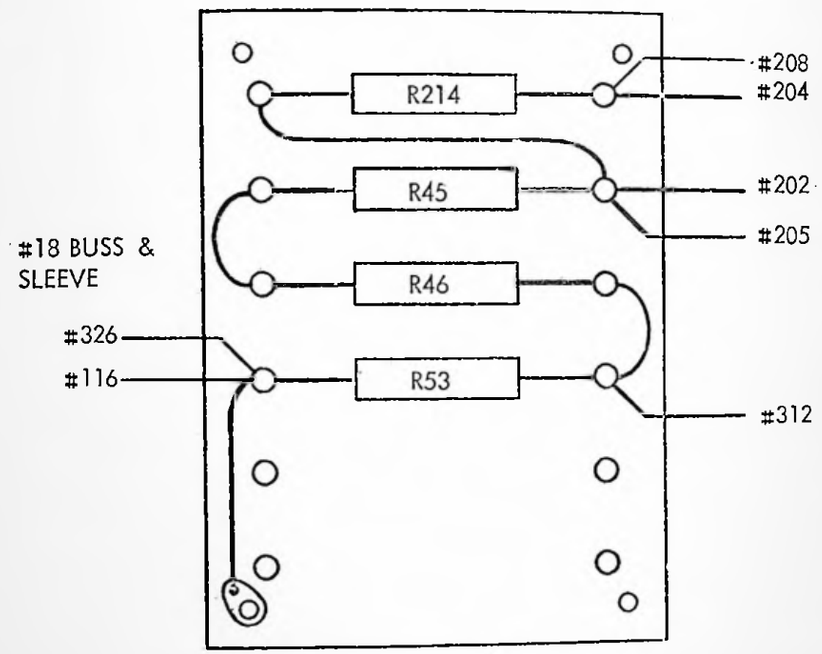
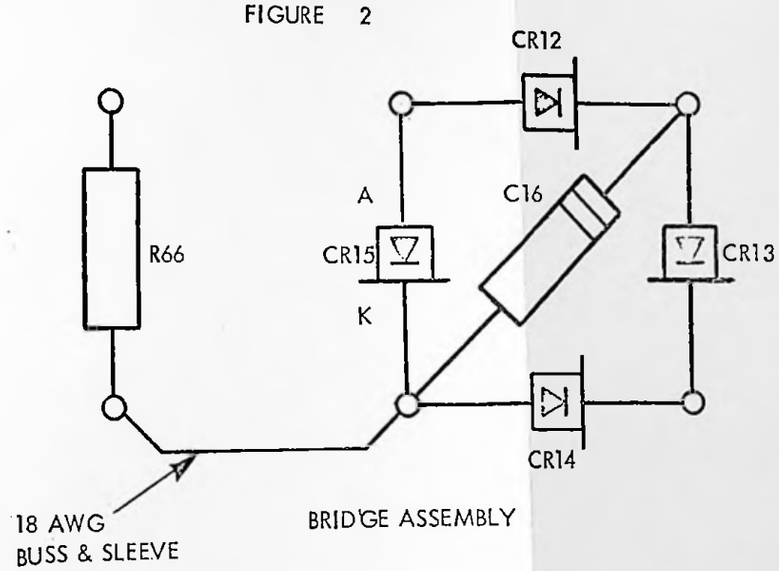


FIGURE 2



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AP. BY	0
DATE	

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	± .02	± .005
ABOVE 6 TO 24	± .03	± .010
ABOVE 24	± .06	± .015
ANGULAR DIMENSIONS ± 1/2 DEG.		
SEE PURCH SPEC FOR STOCK TOLERANCE		

FIRST MADE FOR

USED ON

DRAWN BY

CHECKED BY

DESIGNED BY

COMMODITY CODE

RADIO CORPORATION OF AMERICA

CODE IDENT NO 49671

SIZE B | 3732119

SHEET CONTD ON SH

68379

3732119

Figure 6. Amplifier Cabinet MI-560577 Wire Chart — 3732119 (Sheet 3 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
1 A1= 500V		1 K4=2	206	D
1 B1	W/RED	1 TB1=1	477	
1 B1	W/YEL	1 TB1=2	478	
1 B1	W/BLU	1 TB1=3	479	
1 B2= POS		1 R51=2	475	B
1 B2= NEG		1 R52=2	476	B
1 B12=6		1 S11=1	380	B
1 B101= POS		1 S7=5	352	B
1 B101= NEG		1 S7=2	355	B
1 B102= POS		1 S5=5	339	B
1 B102= NEG		1 S5=2	343	B
1 B103= NEG		1 S6=2	349	B
1 B103= POS		1 S6=5	346	B
1 B201= POS		1 S8=5	358	B
1 B201= NEG		1 S8=2	361	B
1 B202= POS		1 S12=2	382	B
1 B202= NEG		1 S12=5	385	B
1 B203= POS		1 S13=5	388	B
1 B203= NEG		1 S13=2	390	B
1 B301= POS		1 S9=2	364	B
1 B301= NEG		1 S9=5	367	B
1 B302= POS		1 S10=	370	B
1 B302= NEG		1 S10=2	373	B
1 B303= POS		1 S11=2	376	B
1 B303= NEG		1 S11=5	379	B
1 C11=1		1 R19=1	716	R
1 C11=2		1 R21=2	717	R
1 C14=1		1 TB201=1	188	C
1 C15		1 TB201=2	189	C
1 C16=1		1 CR14= A	171	FIG2
1 C16=1		1 E78	165	C FIG2
1 C16=2		1 CR12= K	172	FIG2
1 C112		1 S1=B4	304	B
1 C113		1 T5=7	540	G
1 C114		1 T5=11	541	G
1 C115		1 R107=2	160	C
1 C116		1 R10=2	733	Q

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 4 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
1 C117		1 TP2-4	936	MN
1 C118		1 TP2-5	937	MN
1 C119		1 R112-1	159	C
1 C120		1 R13-1	732	Q
1 C120		1 R7-1	731	Q
1 C124		1 E5	103	C
1 C125		1 TB201-4	158	C
1 C125		1 E6	104	C
1 C205		1 TB201-5	561	G
1 C205		1 T4-7	538	G
1 C206		1 TB201-6	562	G
1 C206		1 T4-11	539	G
1 C207		1 TB201-7	563	G
1 C207		1 T3-7	536	G
1 C208		1 TB201-8	564	G
1 C208		1 T3-11	537	G
1 C209		1 TB201-4	195	C
1 C210		1 TB201-3	196	C
1 C212		1 R214-2	208	D
1 C223		1 R9-1	734	Q
1 C301-1		1 R303-2	542	G
1 C301-2		1 R54-2	543	G
1 C302		1 CR1- RED	961	OP
1 C303		1 CR1- BLK	962	OP
1 C304		1 R303-1	680	JK
1 C305		1 R304-1	681	JK
1 C311		1 R16-1	714	R
1 CR1- RED		1 C302	961	OP
1 CR1- BLK		1 C303	962	OP
1 CR1- POS		1 TP1-4	534	G
1 CR1- NEG		1 TP1-5	535	G
1 CR1-Y1		1 T1-X1	931	MN
1 CR1-Y2		1 T1-X2	932	MN
1 CR1-Y3		1 T1-X3	933	MN
1 CR2- RED		1 TP2-4	934	MN
1 CR2- BLK		1 TP2-5	935	MN
1 CR2-Y1		1 TP2-1	904	IK

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 5 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
1 CR2-Y2		1 TP2-2	905	IK
1 CR2-Y3		1 TP2-3	906	IK
1 CR12- K		1 C16-2	172	FIG2
1 CR12- A		1 K4-C1	173	C FIG2
1 CR14- A		1 R66-2	170	FIG2
1 CR14- A		1 C16-1	171	FIG2
1 CR14- K		1 K4-C2	174	C FIG2
1 E1		10 P10-8	251	A
1 E2		10 P10-15	252	A
1 E3		1 S29- NO	149	C
1 E4		1 S28- COM	148	C
1 E4		1 S34- COM	157	C
1 E5		1 C124	103	C
1 E5		1 S27- NO	146	C
1 E6		1 C125	104	C
1 E7		1 TB201-3	105	C
1 E8		1 S31- COM	152	C
1 E9		1 S32- COM	154	C
1 E10		1 S32- NO	155	C
1 E11		1 XDS1-C1	106	C
1 E12		1 XDS1-A2	107	C
1 E13		1 TB201-9	162	C
1 E13		1 XDS2-A2	108	C
1 E14		1 TB201-10	163	C
1 E15		1 R105-1	109	C
1 E16		1 R105-2	110	C
1 E17		1 R114-1	113	C
1 E18		1 R114-2	114	C
1 E19		1 R111-1	111	C
1 E20		1 R111-2	112	C
1 E21		1 TB201-6	115	C
1 E22		1 R53-1	116	C FIG1
1 E23		1 TB201-8	117	C
1 E24		1 R305-1	118	C
1 E25		1 R305-2	119	C
1 E28		40 TB1-4	122	C
1 E28		1 R64-2	212	D

Figure 6. Amplifier Cabinet MI-560577 Wire Chart — 3732119 (Sheet 6 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
1 E29		40 TB1-6	123	C
1 E30		1 R13-2	461	B
1 E31		1 R15-1	462	B
1 E32		1 R15-2	463	B
1 E33		1 R16-2	464	B
1 E34		1 R18-1	465	B
1 E35		1 R18-2	466	B
1 E36		10 P10-4	253	A
1 E37		1 R115-1	467	B
1 E38		1 R55-1	468	B
1 E39		1 TB1-1	469	B
1 E40		1 TB1-2	470	B
1 E41		1 TB1-3	471	B
1 E42		1 XV2- WHT	548	G
1 E43		1 XV2- BLK	549	G
1 E44		1 S5-4	340	B
1 E45		1 S5-6	337	B
1 E46		30 P9-1	261	A
1 E47		30 P9-2	262	A
1 E48		30 P9-3	263	A
1 E49		30 P9-4	264	A
1 E50		10 P10-13	265	A
1 E51		10 P10-6	266	A
1 E52		10 P10-12	267	A
1 E53		10 P10-5	268	A
1 E54		10 P10-7	269	A
1 E55		10 P10-14	270	A
1 E56		1 R51-1	472	B
1 E57		1 R52-1	473	B
1 E58		10 P10-9	254	A
1 E59		10 P10-1	255	A
1 E60		20 P12-1	256	A
1 E61		20 P12-10	257	A
1 E62		30 P9-9	258	A
1 E63		30 P9-11	259	A
1 E64		40 TB1-1	131	C
1 E65		40 TB1-2	132	C

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 7 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
1 E66		20 P12-8	271	A
1 E66		1 S1-A1	303	B
1 E67		20 P12-15	272	A
1 E67		1 S1-B3	318	B
1 E68	CTR	1 P1	851	V
1 E69	CTR	1 R33-3	859	V
1 E70	SHLD	1 GND	859	V
1 E70	SHLD	1 GND	860	V
1 E70	SHLD	1 P1	851	V
1 E70	SHLD	1 P5	855	V
1 E71	CTR	1 P5	855	V
1 E72	CTR	1 R37-3	860	V
1 E73		1 K2-1	501	G
1 E74		1 K2-3	502	G
1 E75		1 K2-5	503	G
1 E76		20 P12-12	260	A
1 E77		1 R66-1	164	C FIG2
1 E78		10 P10-3	135	A
1 E78		1 C16-1	165	C FIG2
1 E79		1 K2- NC	166	C
1 E80		1 K3- NC	167	C
1 E81		20 P12-3	736	A
1 E83		20 P12-6	737	A
1 E86		20 P12-7	738	A
1 E91	CTR	1 M1- NEG	968	Z
1 E91		1 E92	970	X
1 E92	CTR	1 S36-A11	971	Z
1 E92		1 E91	970	X
1 E93	SHLD	1 GND	968	Z
1 E93	SHLD	1 GND	971	Z
1 E94	CTR	1 S36-B11	973	Z
1 E94		1 E95	975	X
1 E95		1 E96	976	X
1 E95		1 E94	975	X
1 E96	SHLD	1 GND	973	Z
1 E96		1 E95	976	X
1 E97	CTR	1 S36-A5	978	Z

Figure 6. Amplifier Cabinet MI-560577 Wire Chart — 3732119 (Sheet 8 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
1 E97		1 E98	980	X
1 E98		1 E99	981	X
1 E98		1 E97	980	X
1 E99	SHLD	1 GND	978	Z
1 E99		1 E98	981	X
1 E100	CTR	1 M7- NEG	982	Z
1 E100		1 E101	984	X
1 E101	CTR	1 S37-A11	985	Z
1 E101		1 E100	984	X
1 E102	SHLD	1 GND	982	Z
1 E102	SHLD	1 GND	985	Z
1 E103	CTR	1 S37-B11	987	Z
1 E103		1 E104	989	X
1 E104		1 E105	990	X
1 E104		1 E103	989	X
1 E105	SHLD	1 GND	987	Z
1 E105		1 E104	990	X
1 E106	CTR	1 S37-A5	991	Z
1 E106		1 E107	993	X
1 E107		1 E108	994	X
1 E107		1 E106	993	X
1 E108	SHLD	1 GND	991	Z
1 E108		1 E107	994	X
1 E119		1 S35-1	1001	C
1 E120		1 S35-3	1002	C
1 GND		1 S1-B14	327	B
1 GND		1 M9- NEG	641	XY
1 GND	SHLD	1 J21	1011	T
1 GND		1 M10- NEG	643	XY
1 GND	SHLD	1 E99	978	Z
1 GND	SHLD	1 M5- TIE	702	S
1 GND	SHLD	1 J22	1015	T
1 GND		1 XK1-3	192	C
1 GND	SHLD	1 E102	982	Z
1 GND		1 R98-2	1089	
1 GND	SHLD	1 J23	1020	T
1 GND		1 S1-A11	309	B

Figure 6. Amplifier Cabinet MI-560577 Wire Chart -- 3732119 (Sheet 9 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
1 GND	SHLD	1 E102	985	Z
1 GND		1 R49-2	217	D
1 GND	SHLD	1 J24	1024	T
1 GND		1 S36-A8	1096	XY
1 GND	SHLD	1 E105	987	Z
1 GND	SHLD	1 P2	852	V
1 GND	SHLD	1 E108	991	Z
1 GND		1 S37-A8	1108	XY
1 GND	SHLD	1 E93	968	Z
1 GND	SHLD	1 P3	853	V
1 GND	SHLD	1 E93	971	Z
1 GND		1 R94-2	1066	
1 GND	SHLD	1 E96	973	Z
1 GND	SHLD	1 P4	854	V
1 GND	SHLD	1 J30	891	W
1 GND	SHLD	1 P6	856	V
1 GND	SHLD	1 P7	857	V
1 GND	SHLD	1 P8	858	V
1 GND	SHLD	1 E70	859	V
1 GND	SHLD	1 E70	860	V
1 GND- CAB		40 TB1-6	175	C
1 J21	SHLD	1 GND	1011	T
1 J21	CTR	1 R91-B1	1011	T
1 J22	CTR	1 R43-3	1015	T
1 J22	SHLD	1 GND	1015	T
1 J23	CTR	1 R95-B1	1020	T
1 J23	SHLD	1 GND	1020	T
1 J24	CTR	1 R44-3	1024	T
1 J24	SHLD	1 GND	1024	T
1 J25	CTR	10 P5	871	U
1 J25	SHLD	10 P5	871	U
1 J26	CTR	10 P6	872	U
1 J26	SHLD	10 P6	872	U
1 J27	CTR	10 P7	873	U
1 J27	SHLD	10 P7	873	U
1 J28	CTR	10 P8	874	U
1 J28	SHLD	10 P8	874	U

Figure 6. Amplifier Cabinet MI-560577 Wire Chart — 3732119 (Sheet 10 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
1 J29	CTR	10 P9	875	U
1 J29	SHLD	10 P9	875	U
1 J30	SHLD	1 GND	891	W
1 J30-1	RED	20 J15-1	891	W
1 J30-2	BLK	20 J15-2	891	W
1 J203	CTR	1 P18	808	T
1 J203	SHLD	1 P18	808	T
1 K2- COM		1 K3- COM	168	C
1 K2- NC		1 E79	166	C
1 K2-1		1 K3-1	555	G
1 K2-1		1 E73	501	G
1 K2-2		1 T3-1	558	G
1 K2-3		1 K3-3	556	G
1 K2-3		1 E74	502	G
1 K2-4		1 R24-3	559	G
1 K2-5		1 K3-5	557	G
1 K2-5		1 E75	503	G
1 K2-6		1 R25-3	560	G
1 K3- NC		1 E80	167	C
1 K3- COM		1 K2- COM	168	C
1 K3-1		1 K2-1	555	G
1 K3-2		1 R23-A3	519	G
1 K3-3		1 K2-3	556	G
1 K3-4		1 R23-B3	520	G
1 K3-5		1 K2-5	557	G
1 K3-6		1 R23-C3	521	G
1 K4-1		1 K4-2	209	D
1 K4-2		1 A1- 500V	206	D
1 K4-2		1 K4-1	209	D
1 K4-3		1 R47-2	210	D
1 K4-3		1 R45-2	205	D
1 K4-4		1 R64-1	211	D
1 K4-C1		1 CR12- A	173	C FIG2
1 K4-C2		1 CR14- K	174	C FIG2
1 M1- POS		1 R91-A1	1028	XY
1 M1- NEG	CTR	1 E91	968	Z
1 M2- POS		1 R114-2	142	C

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 11 of 35)

FROM		CONDUCTOR	TO	WIRE	CODE
1 M2-	NEG		1 R115-2	143	C
1 M3-	POS		1 R104-2	140	C
1 M3-	NEG		1 R105-1	141	C
1 M4-	POS		1 R12-1	138	C
1 M4-	NEG		1 R12-2	139	C
1 M5-	POS	CTR	1 R11-1	702	S
1 M5-	TIE	SHLD	1 GND	702	S
1 M5-	NEG	CTR	1 R9-1	701	S
1 M5-	TIE	SHLD	1 R9- -ND	701	S
1 M6-	POS		1 R54-1	545	G
1 M6-	NEG		1 R21-2	546	G
1 M7-	POS		1 R95-A1	1030	
1 M7-	NEG	CTR	1 E100	982	Z
1 M8-	POS		1 S4-2	335	B
1 M8-	NEG		1 S4-6	336	B
1 M9-	NEG		1 GND	641	XY
1 M9-	POS		1 S25-11	639	XY
1 M10-	NEG		1 GND	643	XY
1 M10-	POS		1 S26-11	640	XY
1 P1		CTR	1 E68	851	V
1 P1		SHLD	1 E70	851	V
1 P2		CTR	1 R34-3	852	V
1 P2		SHLD	1 GND	852	V
1 P3		CTR	1 R35-3	853	V
1 P3		SHLD	1 GND	853	V
1 P4		CTR	1 R36-3	854	V
1 P4		SHLD	1 GND	854	V
1 P5		CTR	1 E71	855	V
1 P5		SHLD	1 E70	855	V
1 P6		CTR	1 R38-3	856	V
1 P6		SHLD	1 GND	856	V
1 P7		CTR	1 R39-3	857	V
1 P7		SHLD	1 GND	857	V
1 P8		CTR	1 R40-3	858	V
1 P8		SHLD	1 GND	858	V
1 P11		CTR	20 P13	801	T
1 P11		SHLD	20 P13	801	T

Figure 6. Amplifier Cabinet MI-560577 Wire Chart — 3732119 (Sheet 12 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
1 P12	CTR	30 P10	802	T
1 P12	SHLD	30 P10	802	T
1 P13	CTR	30 P12	803	T
1 P13	SHLD	30 P12	803	T
1 P14	CTR	1 P102-A	804	T
1 P14	SHLD	1 P102-A	804	T
1 P15	CTR	20 P14	805	T
1 P15	SHLD	20 P14	805	T
1 P16	CTR	30 P11	806	T
1 P16	SHLD	30 P11	806	T
1 P17	CTR	30 P13	807	T
1 P17	SHLD	30 P13	807	T
1 P18	CTR	1 J203	808	T
1 P18	SHLD	1 J203	808	T
1 P29	CTR	1 R70-1	881	U
1 P29	SHLD	1 R70- TIE	881	U
1 P31	CTR	1 R70-3	882	U
1 P31	SHLD	1 R70- TIE	882	U
1 P102-A	CTR	1 P14	804	T
1 P102-A	SHLD	1 P14	804	T
1 R1-1		1 R4-1	711	R
1 R1-2		1 R2-2	718	R
1 R2-1		1 R3-1	719	R
1 R2-2		1 R1-2	718	R
1 R3-1		1 R2-1	719	R
1 R3-2		1 R16-1	712	R
1 R3-2		1 R6-2	713	R
1 R4-1		1 R19-1	715	R
1 R4-1		1 R1-1	711	R
1 R4-2		1 R5-2	720	R
1 R5-1		1 R6-1	721	R
1 R5-2		1 R4-2	720	R
1 R6-1		1 R5-1	721	R
1 R6-2		1 R3-2	713	R
1 R7-1		1 C120	731	Q
1 R7-2		1 R8-2	735	Q
1 R8-2		1 R7-2	735	Q

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 13 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
1 R9- -NO	SHLD	1 M5- TIE	701	S
1 R9-1	CTR	1 M5- NEG	701	S
1 R9-1		1 C223	734	Q
1 R10-2		1 C116	733	Q
1 R11-1	CTR	1 M5- POS	702	S
1 R12-1		1 M4- POS	138	C
1 R12-2		1 M4- NEG	139	C
1 R13-1		1 C120	732	Q
1 R13-2		1 E30	461	B
1 R15-1		1 E31	462	B
1 R15-2		1 E32	463	B
1 R16-1		1 C311	714	R
1 R16-1		1 R3-2	712	R
1 R16-2		1 E33	464	B
1 R18-1		1 E34	465	B
1 R18-2		1 E35	466	B
1 R19-1		1 C11-1	716	R
1 R19-1		1 R4-1	715	R
1 R19-2		1 R20-2	722	R
1 R20-		1 R221-3	455	R
1 R20-1		1 R21-1	723	R
1 R20-2		1 R19-2	722	R
1 R21-1		1 R20-1	723	R
1 R21-2		1 M6- NEG	546	G
1 R21-2		1 C11-2	717	R
1 R22-A1		1 TP1-1	510	G
1 R22-A1		1 R22-A2	507	G
1 R22-A2		1 R22-A1	507	G
1 R22-A3		1 R23-A3	504	G
1 R22-B1		1 TP1-2	511	G
1 R22-B1		1 R22-B2	508	G
1 R22-B2		1 R22-B1	508	G
1 R22-B3		1 R23-B3	505	G
1 R22-C1		1 TP1-3	512	G
1 R22-C1		1 R22-C2	509	G
1 R22-C2		1 R22-C1	509	G
1 R22-C3		1 R23-C3	506	G

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 14 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
1 R23-A1		1 T2-H1	516	G
1 R23-A1		1 R23-A2	513	G
1 R23-A2		1 R23-A1	513	G
1 R23-A3		1 K3-2	519	G
1 R23-A3		1 R22-A3	504	G
1 R23-B1		1 T2-H2	517	G
1 R23-B1		1 R23-B2	514	G
1 R23-B2		1 R23-B1	514	G
1 R23-B3		1 K3-4	520	G
1 R23-B3		1 R22-B3	505	G
1 R23-C1		1 T2-H3	518	G
1 R23-C1		1 R23-C2	515	G
1 R23-C2		1 R23-C1	515	G
1 R23-C3		1 K3-6	521	G
1 R23-C3		1 R22-C3	506	G
1 R24-1		1 T3-6	524	G
1 R24-1		1 R24-2	523	G
1 R24-2		1 R24-1	523	G
1 R24-3		1 T5-1	522	G
1 R24-3		1 K2-4	559	G
1 R25-1		1 T4-6	526	G
1 R25-1		1 R25-2	525	G
1 R25-2		1 R25-1	525	G
1 R25-3		1 R26-3	527	G
1 R25-3		1 K2-6	560	G
1 R26-1		1 T5-6	529	G
1 R26-1		1 R26-2	528	G
1 R26-2		1 R26-1	528	G
1 R26-3		1 R25-3	527	G
1 R27-1		1 XDS1-A2	182	
1 R27-1		1 XDS2-A2	184	
1 R27-2		1 XDS1-C1	183	
1 R27-2		1 XDS2-C1	185	
1 R30-2		1 TB201-2	190	C
1 R30-2		1 XK1-2	191	C
1 R31-1		1 S13-6	441	B
1 R31-1		1 S3-2	334	B

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 15 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
1 R31-2		1 R32-3	442	B
1 R32-2		1 S1-B10	323	B
1 R32-3		1 R31-2	442	B
1 R33-1		1 R33-2	623	XY
1 R33-1		1 S25-4	624	XY
1 R33-2		1 R33-1	623	XY
1 R33-3	CTR	1 E69	859	V
1 R34-1		1 R34-2	625	XY
1 R34-1		1 S25-1	626	XY
1 R34-2		1 R34-1	625	XY
1 R34-3	CTR	1 P2	852	V
1 R35-1		1 R35-2	627	XY
1 R35-1		1 S25-10	628	XY
1 R35-2		1 R35-1	627	XY
1 R35-3	CTR	1 P3	853	V
1 R36-1		1 R36-2	629	XY
1 R36-1		1 S25-7	630	XY
1 R36-2		1 R36-1	629	XY
1 R36-3	CTR	1 P4	854	V
1 R37-1		1 R37-2	631	XY
1 R37-1		1 S26-4	632	XY
1 R37-2		1 R37-1	631	XY
1 R37-3	CTR	1 E72	860	V
1 R38-1		1 R38-2	633	XY
1 R38-1		1 S26-1	634	XY
1 R38-2		1 R38-1	633	XY
1 R38-3	CTR	1 P6	856	V
1 R39-1		1 R39-2	635	XY
1 R39-1		1 S26-10	636	XY
1 R39-2		1 R39-1	635	XY
1 R39-3	CTR	1 P7	857	V
1 R40-1		1 R40-2	637	XY
1 R40-1		1 S26-7	638	XY
1 R40-2		1 R40-1	637	XY
1 R40-3	CTR	1 P8	858	V
1 R43-1		1 R43-2	1033	XY
1 R43-1		1 R56-3	1034	

Figure 6. Amplifier Cabinet MI-5805?? Wire Chart — 3732119 (Sheet 16 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
1 R43-1		1 R43-3	1035	X
1 R43-2		1 R43-1	1033	XY
1 R43-3	CTR	1 J22	1015	T
1 R43-3		1 R43-1	1035	X
1 R44-1		1 R44-2	1036	XY
1 R44-1		1 R57-3	1037	XY
1 R44-1		1 R44-3	1038	X
1 R44-2		1 R44-1	1036	XY
1 R44-3	CTR	1 J24	1024	T
1 R44-3		1 R44-1	1038	X
1 R45-2		1 K4-3	205	D
1 R45-2		1 S1-A16	202	D
1 R46-2		1 S1-A14	312	B
1 R47-1		1 R48-1	215	D
1 R47-2		1 R63-2	213	D
1 R47-2		1 K4-3	210	D
1 R48-1		1 R47-1	215	D
1 R48-2		1 R106-1	207	D
1 R48-3		1 R49-1	216	D
1 R49-1		1 R48-3	216	D
1 R49-2		1 GND	217	D
1 R49-2		1 R63-1	214	D
1 R51-1		1 E56	472	B
1 R51-2		1 B2- POS	475	B
1 R52-1		1 E57	473	B
1 R52-2		1 B2- NEG	476	B
1 R53-1		1 E22	116	C FIG1
1 R53-1		1 S1-B13	326	B
1 R54-1		1 M6- POS	545	G
1 R54-2		1 C301-2	543	G
1 R55-1		1 E38	468	B
1 R56-1		1 R56-2	1039	XY
1 R56-1		1 S36-C4	1040	XY
1 R56-2		1 R56-1	1039	XY
1 R56-3		1 S36-C8	1041	XY
1 R56-3		1 R43-1	1034	
1 R57-1		1 R57-2	1044	X

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 17 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
1 R57=1		1 S37=C4	1045	
1 R57=2		1 R57=1	1044	X
1 R57=3		1 S37=C8	1046	XY
1 R57=3		1 R44=1	1037	XY
1 R62=1		40 TB1=4	180	
1 R62=2		40 TB1=6	181	
1 R63=1		1 R49=2	214	D
1 R63=2		1 R47=2	213	D
1 R64=1		1 K4=4	211	D
1 R64=2		1 E28	212	D
1 R65=1		1 S1=A3	186	
1 R65=2		1 S1=A6	187	
1 R66=1		1 E77	164	C FIG2
1 R66=2		1 CR14= A	170	FIG2
1 R70= TIE	SHLD	1 P31	882	U
1 R70= TIE	SHLD	1 P29	881	U
1 R70=1		1 R70=2	883	X
1 R70=1	CTR	1 P29	881	U
1 R70=2		1 R70=1	883	X
1 R70=3	CTR	1 P31	882	U
1 R91=A1		1 R91=A2	1048	X
1 R91=A1		1 S36=C5	1050	XY
1 R91=A1		1 M1= POS	1028	XY
1 R91=A2		1 R91=A1	1048	X
1 R91=A3		1 S36=C11	1049	XY
1 R91=B1		1 R91=B2	1051	XY
1 R91=B1		1 S36=C9	1052	XY
1 R91=B1	CTR	1 J21	1011	T
1 R91=B2		1 R91=B1	1051	XY
1 R91=B3		1 R92=1	1053	XY
1 R92=1		1 R92=2	1056	X
1 R92=1		1 R91=B3	1053	XY
1 R92=2		1 R92=1	1056	X
1 R92=3		1 S36=B7	1057	XY
1 R93=1		1 S36=C4	1060	XY
1 R93=1		1 R93=2	1061	X
1 R93=2		1 R93=1	1061	X

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 18 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
1 R93-3		1 S36-A1	1062	XY
1 R94-1		1 S36-A8	1065	
1 R94-2		1 GND	1066	
1 R95-A1		1 R95-A2	1070	X
1 R95-A1		1 S37-C5	1072	XY
1 R95-A1		1 M7- POS	1030	
1 R95-A2		1 R95-A1	1070	X
1 R95-A3		1 S37-C11	1071	XY
1 R95-B1		1 S37-C9	1074	XY
1 R95-B1		1 R95-B2	1075	XY
1 R95-B1	CTR	1 J23	1020	T
1 R95-B2		1 R95-B1	1075	XY
1 R95-B3		1 R97-1	1076	XY
1 R96-1		1 R96-2	1079	X
1 R96-2		1 R96-1	1079	X
1 R96-3		1 S37-B7	1080	
1 R97-1		1 S37-C4	1083	XY
1 R97-1		1 R97-2	1084	X
1 R97-1		1 R95-B3	1076	XY
1 R97-2		1 R97-1	1084	X
1 R97-3		1 S37-A1	1085	XY
1 R98-1		1 S37-A8	1088	
1 R98-2		1 GND	1089	
1 R104-2		1 M3- POS	140	C
1 R105-1		1 E15	109	C
1 R105-1		1 M3- NEG	141	C
1 R105-2		1 E16	110	C
1 R106-1		1 R48-2	207	D
1 R106-1		1 S1-A7	201	D
1 R106-2		1 S1-B7	203	D
1 R107-2		1 C115	160	C
1 R108-2		1 S1-A5	305	B
1 R111-1		1 E19	111	C
1 R111-2		1 E20	112	C
1 R112-1		1 C119	159	C
1 R113-1		1 S1-A9	307	B
1 R113-2		1 S1-B9	322	B

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 19 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
1 R114-1		1 E17	113	C
1 R114-2		1 M2- POS	142	C
1 R114-2		1 E18	114	C
1 R115-1		1 E37	467	B
1 R115-2		1 M2- NEG	143	C
1 R120-1		1 R221-1	447	B
1 R120-1		1 R122-1	446	B
1 R120-2		1 S16-3 NO	407	B
1 R120-3		1 R122-3	454	B
1 R121-1		1 S3-2	444	B
1 R121-1		1 R122-3	453	B
1 R121-2		1 S14-3 NO	395	B
1 R121-3		1 S13-4	443	B
1 R121-3		1 R122-1	445	B
1 R122-1		1 R120-1	446	B
1 R122-1		1 R121-3	445	B
1 R122-2		1 S15-3 NO	401	B
1 R122-3		1 R120-3	454	B
1 R122-3		1 R121-1	453	B
1 R214-2		1 S1-B16	204	D
1 R214-2		1 C212	208	D
1 R221-1		1 R222-3	457	B
1 R221-1		1 R120-1	447	B
1 R221-2		1 S21-3 NO	437	B
1 R221-3		1 R222-1	449	B
1 R221-3		1 R20-	455	B
1 R222-1		1 R310-3	458	B
1 R222-1		1 R221-3	449	B
1 R222-2		1 S22-3 NO	440	B
1 R222-3		1 R310-1	450	B
1 R222-3		1 R221-1	457	B
1 R303-1		1 C304	680	JK
1 R303-2		1 C301-1	542	G
1 R303-2		1 R304-2	544	G
1 R304-1		1 C305	681	JK
1 R304-2		1 R303-2	544	G
1 R305-1		1 S1-A18	314	B

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 20 of 35)

FROM	CONDUCTOR	TO		WIRE	CODE
1 R305-1		1 E24		118	C
1 R305-2		1 S1-B18		329	B
1 R305-2		1 E25		119	C
1 R310-1		1 R311-1		451	B
1 R310-1		1 R222-3		450	B
1 R310-2		1 S18-3	NO	419	B
1 R310-3		1 R311-3		459	B
1 R310-3		1 R222-1		458	B
1 R311-1		1 R312-3		452	B
1 R311-1		1 R310-1		451	B
1 R311-2		1 S19-3	NO	425	B
1 R311-3		1 R312-1		460	B
1 R311-3		1 R310-3		459	B
1 R312-1		1 R311-3		460	B
1 R312-2		1 S20-3	NO	431	B
1 R312-3		1 R311-1		452	B
1 S1-11		1 TB201-1		324	B
1 S1-A1		1 TP2-7		301	B
1 S1-A1		1 E66		303	B
1 S1-A2		1 TP1-7		302	B
1 S1-A3		1 R65-1		186	
1 S1-A4		1 S1-B5		319	B
1 S1-A5		1 R108-2		305	B
1 S1-A6		1 R65-2		187	
1 S1-A7		1 R106-1		201	D
1 S1-A9		1 R113-1		307	B
1 S1-A10		1 S2-2		308	B
1 S1-A11		1 GND		309	B
1 S1-A12		1 TB201-6		310	B
1 S1-A13		1 TB201-8		311	B
1 S1-A14		1 R46-2		312	B
1 S1-A16		1 R45-2		202	D
1 S1-A18		1 R305-1		314	B
1 S1-A20		1 S4-8		315	B
1 S1-B1		1 TP2-6		316	B
1 S1-B2		1 TP1-6		317	B
1 S1-B3		1 E67		318	B

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 21 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
1 S1-B4		1 C112	304	B
1 S1-B5		1 S1-B14	320	B
1 S1-B5		1 S1-A4	319	B
1 S1-B7		1 R106-2	203	D
1 S1-B9		1 R113-2	322	B
1 S1-B10		1 R32-2	323	B
1 S1-B12		1 S1-B13	325	B
1 S1-B13		1 R53-1	326	B
1 S1-B13		1 S1-B12	325	B
1 S1-B14		1 GND	327	B
1 S1-B14		1 S1-B5	320	B
1 S1-B16		1 R214-2	204	D
1 S1-B18		1 R305-2	329	B
1 S1-B20		1 S4-4	330	B
1 S2-1		1 S14-C3	331	B
1 S2-2		1 S1-A10	308	B
1 S2-3		1 S14-C1	332	B
1 S3-1		1 S22-2 NC	333	B
1 S3-2		1 R31-1	334	B
1 S3-2		1 R121-1	444	B
1 S4-1		1 S4-2	601	XY
1 S4-2		1 M8- POS	335	B
1 S4-2		1 S4-1	601	XY
1 S4-3		1 S4-8	602	XY
1 S4-4		1 S4-7	603	XY
1 S4-4		1 S1-B20	330	B
1 S4-5		1 S4-6	604	XY
1 S4-6		1 M8- NEG	336	B
1 S4-6		1 S4-5	604	XY
1 S4-7		1 S4-4	603	XY
1 S4-8		1 S1-A20	315	B
1 S4-8		1 S4-3	602	XY
1 S5-1		1 S5-6	338	B
1 S5-1		1 S6-6	344	B
1 S5-2		1 B102- NEG	343	B
1 S5-3		1 S5-4	341	B
1 S5-3		1 S6-4	342	B

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 22 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
1 S5-4		1 E44	340	B
1 S5-4		1 S14-1 COM	474	B
1 S5-4		1 S5-3	341	B
1 S5-5		1 B102- POS	339	B
1 S5-6		1 E45	337	B
1 S5-6		1 S5-1	338	B
1 S6-1		1 S7-6	350	B
1 S6-1		1 S6-6	345	B
1 S6-2		1 B103- NEG	349	B
1 S6-3		1 S6-4	347	B
1 S6-3		1 S7-4	348	B
1 S6-4		1 S5-3	342	B
1 S6-4		1 S6-3	347	B
1 S6-5		1 B103- POS	346	B
1 S6-6		1 S5-1	344	B
1 S6-6		1 S6-1	345	B
1 S7-1		1 S7-6	351	B
1 S7-1		1 S8-6	356	B
1 S7-2		1 B101- NEG	355	B
1 S7-3		1 S7-4	353	B
1 S7-3		1 S8-4	354	B
1 S7-4		1 S6-3	348	B
1 S7-4		1 S7-3	353	B
1 S7-5		1 B101- POS	352	B
1 S7-6		1 S6-1	350	B
1 S7-6		1 S7-1	351	B
1 S8-1		1 S8-6	357	B
1 S8-1		1 S9-6	362	B
1 S8-2		1 B201- NEG	361	B
1 S8-3		1 S8-4	359	B
1 S8-3		1 S9-4	360	B
1 S8-4		1 S7-3	354	B
1 S8-4		1 S8-3	359	B
1 S8-5		1 B201- POS	358	B
1 S8-6		1 S7-1	356	B
1 S8-6		1 S8-1	357	B
1 S9-1		1 S10-6	368	B

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 23 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
1 S9-1		1 S9-6	363	B
1 S9-2		1 B301- POS	364	B
1 S9-3		1 S9-4	365	B
1 S9-3		1 S10-4	366	B
1 S9-4		1 S8-3	360	B
1 S9-4		1 S9-3	365	B
1 S9-5		1 B301- NEG	367	B
1 S9-6		1 S8-1	362	B
1 S9-6		1 S9-1	363	B
1 S10-		1 B302- POS	370	B
1 S10-1		1 S10-6	369	B
1 S10-1		1 S11-6	374	B
1 S10-2		1 B302- NEG	373	B
1 S10-3		1 S10-4	371	B
1 S10-3		1 S11-4	372	B
1 S10-4		1 S9-3	366	B
1 S10-4		1 S10-3	371	B
1 S10-6		1 S9-1	368	B
1 S10-6		1 S10-1	369	B
1 S11-1		1 S11-6	375	B
1 S11-1		1 B12-6	380	B
1 S11-2		1 B303- POS	376	B
1 S11-3		1 S11-4	377	B
1 S11-3		1 S12-4	378	B
1 S11-4		1 S10-3	372	B
1 S11-4		1 S11-3	377	B
1 S11-5		1 B303- NEG	379	B
1 S11-6		1 S10-1	374	B
1 S11-6		1 S11-1	375	B
1 S12-1		1 S12-6	381	B
1 S12-1		1 S13-6	386	B
1 S12-2		1 B202- POS	382	B
1 S12-3		1 S12-4	383	B
1 S12-3		1 S13-4	384	B
1 S12-4		1 S11-3	378	B
1 S12-4		1 S12-3	383	B
1 S12-5		1 B202- NEG	385	B

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 24 of 35)

FROM		CONDUCTOR	TO		WIRE	CODE
1 S12-6			1 S12-1		381	B
1 S13-1			1 S13-6		387	B
1 S13-2			1 B203-	NEG	390	B
1 S13-3			1 S13-4		389	B
1 S13-4			1 R121-3		443	B
1 S13-4			1 S13-3		389	B
1 S13-4			1 S12-3		384	B
1 S13-5			1 B203-	POS	388	B
1 S13-6			1 S12-1		386	B
1 S13-6			1 S13-1		387	B
1 S13-6			1 R31-1		441	B
1 S14-1	NC		1 S15-1	COM	393	B
1 S14-1	COM		1 S5-4		474	B
1 S14-1	NO		1 S14-L4		392	B
1 S14-3	NC		1 S15-3	COM	394	B
1 S14-3	NO		1 R121-2		395	B
1 S14-C1			1 S2-3		332	B
1 S14-C3			1 S2-1		331	B
1 S14-L1			1 S14-L3		605	XY
1 S14-L2			1 S14-L4		606	XY
1 S14-L3			1 S15-2	COM	391	B
1 S14-L3			1 S14-L1		605	XY
1 S14-L4			1 S14-1	NO	392	B
1 S14-L4			1 S14-L2		606	XY
1 S15-1	NC		1 S16-1	COM	398	B
1 S15-1	COM		1 S14-1	NC	393	B
1 S15-1	NO		1 S15-L4		397	B
1 S15-2	NC		1 S16-2	COM	399	B
1 S15-2	COM		1 S14-L3		391	B
1 S15-3	NC		1 S16-3	COM	400	B
1 S15-3	NO		1 R122-2		401	B
1 S15-3	COM		1 S14-3	NC	394	B
1 S15-L1			1 S15-L3		607	XY
1 S15-L2			1 S15-L4		608	XY
1 S15-L3			1 S16-2	COM	396	B
1 S15-L3			1 S15-L1		607	XY
1 S15-L4			1 S15-1	NO	397	B

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 25 of 35)

FROM		CONDUCTOR	TO		WIRE	CODE
1 S15-L4			1 S15-L2		608	XY
1 S16-1	NC		1 S17-1	COM	404	B
1 S16-1	COM		1 S15-1	NC	398	B
1 S16-1	NO		1 S16-L4		403	B
1 S16-2	NC		1 S17-2	COM	405	B
1 S16-2	COM		1 S15-L3		396	B
1 S16-2	COM		1 S15-2	NC	399	B
1 S16-3	NC		1 S17-3	COM	406	B
1 S16-3	NO		1 R120-2		407	B
1 S16-3	COM		1 S15-3	NC	400	B
1 S16-L1			1 S16-L3		609	XY
1 S16-L2			1 S16-L4		610	XY
1 S16-L3			1 S17-2	COM	402	B
1 S16-L3			1 S16-L1		609	XY
1 S16-L4			1 S16-1	NO	403	B
1 S16-L4			1 S16-L2		610	XY
1 S17-1	NC		1 S18-1	COM	410	B
1 S17-1	COM		1 S16-1	NC	404	B
1 S17-1	NO		1 S17-L4		409	B
1 S17-2	NC		1 S18-2	COM	411	B
1 S17-2	COM		1 S16-L3		402	B
1 S17-2	COM		1 S16-2	NC	405	B
1 S17-3	NC		1 S18-3	COM	412	B
1 S17-3	COM		1 S16-3	NC	406	B
1 S17-L1			1 S17-L3		611	XY
1 S17-L2			1 S17-L4		612	XY
1 S17-L3			1 S18-2	COM	408	B
1 S17-L3			1 S17-L1		611	XY
1 S17-L4			1 S17-1	NO	409	B
1 S17-L4			1 S17-L2		612	XY
1 S18-1	NC		1 S19-1	COM	416	B
1 S18-1	COM		1 S17-1	NC	410	B
1 S18-1	NO		1 S18-L4		415	B
1 S18-2	NC		1 S19-2	COM	417	B
1 S18-2	COM		1 S17-L3		408	B
1 S18-2	COM		1 S17-2	NC	411	B
1 S18-3	NC		1 S19-3	COM	418	B

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 26 of 35)

FROM		CONDUCTOR	TO		WIRE	CODE
1 S18-3	NO		1 R310-2		419	B
1 S18-3	COM		1 S17-3	NC	412	B
1 S18-L1			1 S18-L3		613	XY
1 S18-L2			1 S18-L4		614	XY
1 S18-L3			1 S19-2	COM	414	B
1 S18-L3			1 S18-L1		613	XY
1 S18-L4			1 S18-1	NO	415	B
1 S18-L4			1 S18-L2		614	XY
1 S19-1	NC		1 S20-1	COM	422	B
1 S19-1	COM		1 S18-1	NC	416	B
1 S19-1	NO		1 S19-L4		421	B
1 S19-2	NC		1 S20-2	COM	423	B
1 S19-2	COM		1 S18-L3		414	B
1 S19-2	COM		1 S18-2	NC	417	B
1 S19-3	NC		1 S20-3	COM	424	B
1 S19-3	NO		1 R311-2		425	B
1 S19-3	COM		1 S18-3	NC	418	B
1 S19-L1			1 S19-L3		615	XY
1 S19-L2			1 S19-L4		616	XY
1 S19-L3			1 S20-2	COM	420	B
1 S19-L3			1 S19-L1		615	XY
1 S19-L4			1 S19-1	NO	421	B
1 S19-L4			1 S19-L2		616	XY
1 S20-1	NC		1 S21-1	COM	428	B
1 S20-1	COM		1 S19-1	NC	422	B
1 S20-1	NO		1 S20-L4		427	B
1 S20-2	NC		1 S21-2	COM	429	B
1 S20-2	COM		1 S19-L3		420	B
1 S20-2	COM		1 S19-2	NC	423	B
1 S20-3	NC		1 S21-3	COM	430	B
1 S20-3	NO		1 R312-2		431	B
1 S20-3	COM		1 S19-3	NC	424	B
1 S20-L1			1 S20-L3		617	XY
1 S20-L2			1 S20-L4		618	XY
1 S20-L3			1 S21-2	COM	426	B
1 S20-L3			1 S20-L1		617	XY
1 S20-L4			1 S20-1	NO	427	B

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 27 of 35)

FROM		CONDUCTOR	TO		WIRE	CODE
1 S20-L4			1 S20-L2		618	XY
1 S21-1	NC		1 S22-1	COM	434	B
1 S21-1	COM		1 S20-1	NC	428	B
1 S21-1	NO		1 S21-L4		433	B
1 S21-2	NC		1 S22-2	COM	435	B
1 S21-2	COM		1 S20-L3		426	B
1 S21-3	NC		1 S22-3	COM	436	B
1 S21-3	NO		1 R221-2		437	B
1 S21-3	COM		1 S20-3	NC	430	B
1 S21-L1			1 S21-L3		619	XY
1 S21-L2			1 S21-L4		620	XY
1 S21-L3			1 S22-2	COM	432	B
1 S21-L3			1 S21-L1		619	XY
1 S21-L4			1 S21-1	NO	433	B
1 S21-L4			1 S21-L2		620	XY
1 S22-1	COM		1 S21-1	NC	434	B
1 S22-1	NO		1 S22-L4		439	B
1 S22-2	NC		1 S3-1		333	B
1 S22-2	COM		1 S21-L3		432	B
1 S22-2	COM		1 S21-2	NC	435	B
1 S22-2	NC		1 S22-L3		438	B
1 S22-3	NO		1 R222-2		440	B
1 S22-3	COM		1 S21-3	NC	436	B
1 S22-L1			1 S22-L3		621	XY
1 S22-L2			1 S22-L4		622	XY
1 S22-L3			1 S22-2	NC	438	B
1 S22-L3			1 S22-L1		621	XY
1 S22-L4			1 S22-1	NO	439	B
1 S22-L4			1 S22-L2		622	XY
1 S25-1			1 R34-1		626	XY
1 S25-4			1 R33-1		624	XY
1 S25-7			1 R36-1		630	XY
1 S25-10			1 R35-1		628	XY
1 S25-11			1 H9-	POS	639	XY
1 S26-1			1 R38-1		634	XY
1 S26-4			1 R37-1		632	XY
1 S26-7			1 R40-1		638	XY

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 28 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
1 S26-10		1 R39-1	636	XY
1 S26-11		1 M10- POS	640	XY
1 S27- NO		1 E5	146	C
1 S27- COM		1 S28- NO	147	C
1 S28- COM		1 E4	148	C
1 S28- NO		1 S27- COM	147	C
1 S29- NO		1 E3	149	C
1 S29- COM		1 S30- NO	150	C
1 S30- COM		1 S33- NO	151	C
1 S30- NO		1 S29- COM	150	C
1 S31- COM		1 E8	152	C
1 S31- NO		1 S32- COM	153	C
1 S32- COM		1 E9	154	C
1 S32- NO		1 E10	155	C
1 S32- COM		1 S31- NO	153	C
1 S33- COM		1 S34- NO	156	C
1 S33- NO		1 S30- COM	151	C
1 S34- COM		1 E4	157	C
1 S34- NO		1 S33- COM	156	C
1 S35-1		1 E119	1001	C
1 S35-3		1 E120	1002	C
1 S36-A1		1 S36-A3	1092	X
1 S36-A1		1 R93-3	1062	XY
1 S36-A3		1 S36-A1	1092	X
1 S36-A5	CTR	1 E97	978	Z
1 S36-A5		1 S36-A10	1095	XY
1 S36-A8		1 GND	1096	XY
1 S36-A8		1 R94-1	1065	
1 S36-A9		1 S36-B11	1094	XY
1 S36-A10		1 S36-A5	1095	XY
1 S36-A11	CTR	1 E92	971	Z
1 S36-B7		1 S36-B8	1098	X
1 S36-B7		1 R92-3	1057	XY
1 S36-B8		1 S36-B10	1099	XY
1 S36-B8		1 S36-B7	1098	X
1 S36-B10		1 S36-B8	1099	XY
1 S36-B11	CTR	1 E94	973	Z

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 29 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
1 S36-B11		1 S36-A9	1094	XY
1 S36-C4		1 R56-1	1040	XY
1 S36-C4		1 R93-1	1060	XY
1 S36-C5		1 R91-A1	1050	XY
1 S36-C8		1 R56-3	1041	XY
1 S36-C9		1 R91-B1	1052	XY
1 S36-C11		1 R91-A3	1049	XY
1 S37-A1		1 S37-A3	1104	X
1 S37-A1		1 R97-3	1085	XY
1 S37-A3		1 S37-A1	1104	X
1 S37-A5	CTR	1 E106	991	Z
1 S37-A5		1 S37-A10	1107	XY
1 S37-A8		1 GND	1108	XY
1 S37-A8		1 R98-1	1088	
1 S37-A9		1 S37-B11	1106	XY
1 S37-A10		1 S37-A5	1107	XY
1 S37-A11	CTR	1 E101	985	Z
1 S37-B7		1 S37-B8	1110	X
1 S37-B7		1 R96-3	1080	
1 S37-B8		1 S37-B10	1111	XY
1 S37-B8		1 S37-B7	1110	X
1 S37-B10		1 S37-B8	1111	XY
1 S37-B11	CTR	1 E103	987	Z
1 S37-B11		1 S37-A9	1106	XY
1 S37-C4		1 R57-1	1045	
1 S37-C4		1 R97-1	1083	XY
1 S37-C5		1 R95-A1	1072	XY
1 S37-C8		1 R57-3	1046	XY
1 S37-C9		1 R95-B1	1074	XY
1 S37-C11		1 R95-A3	1071	XY
1 S21-2	COM	1 S20-2 NC	429	B
1 T1-H1		1 TP1-1	531	G
1 T1-H2		1 TP1-2	532	G
1 T1-H3		1 TP1-3	533	G
1 T1-X1		1 CR1-Y1	931	MN
1 T1-X2		1 CR1-Y2	932	MN
1 T1-X3		1 CR1-Y3	933	MN

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 30 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
1 T2-H1		1 R23-A1	516	G
1 T2-H2		1 R23-B1	517	G
1 T2-H3		1 R23-C1	518	G
1 T2-X1		1 TP2-1	901	IK
1 T2-X2		1 TP2-2	902	IK
1 T2-X3		1 TP2-3	903	IK
1 T3-1		1 T4-1	530	G
1 T3-1		1 K2-2	558	G
1 T3-3		1 T3-4	552	G
1 T3-4		1 T3-3	552	G
1 T3-6		1 R24-1	524	G
1 T3-7		1 C207	536	G
1 T3-11		1 C208	537	G
1 T4-1		1 T3-1	530	G
1 T4-3		1 T4-4	553	G
1 T4-3		1 T5-4	554	G
1 T4-4		1 T4-3	553	G
1 T4-6		1 R25-1	526	G
1 T4-7		1 C205	538	G
1 T4-11		1 C206	539	G
1 T5-1		1 R24-3	522	G
1 T5-4		1 T4-3	554	G
1 T5-6		1 R26-1	529	G
1 T5-7		1 C113	540	G
1 T5-11		1 C114	541	G
1 TB1-1		1 E39	469	B
1 TB1-1	W/RED	1 B1	477	
1 TB1-2		1 E40	470	B
1 TB1-2	W/YEL	1 B1	478	
1 TB1-3		1 E41	471	B
1 TB1-3	W/BLU	1 B1	479	
1 TB201-1		1 S1-11	324	B
1 TB201-1		1 C14-1	188	C
1 TB201-2		1 C15	189	C
1 TB201-2		1 R30-2	190	C
1 TB201-3		1 E7	105	C
1 TB201-3		1 C210	196	C

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 31 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
1 TB201-4		1 C125	158	C
1 TB201-4		1 C209	195	C
1 TB201-5		1 C205	561	G
1 TB201-6		1 S1-A12	310	B
1 TB201-6		1 C206	562	G
1 TB201-6		1 E21	115	C
1 TB201-7		1 C207	563	G
1 TB201-8		1 E23	117	C
1 TB201-8		1 C208	564	G
1 TB201-8		1 S1-A13	311	B
1 TB201-9		1 E13	162	C
1 TB201-10		1 E14	163	C
1 TB201-9		1 XK1-6	193	C
1 TB201-10		1 XK1-7	194	C
1 TP1-1		1 T1-H1	531	G
1 TP1-1		1 R22-A1	510	G
1 TP1-2		1 T1-H2	532	G
1 TP1-2		1 R22-B1	511	G
1 TP1-3		1 T1-H3	533	G
1 TP1-3		1 R22-C1	512	G
1 TP1-4		1 CR1- POS	534	G
1 TP1-5		1 CR1- NEG	535	G
1 TP1-6		1 S1-B2	317	B
1 TP1-7		1 S1-A2	302	B
1 TP2-1		1 CR2-Y1	904	IK
1 TP2-1		1 T2-X1	901	IK
1 TP2-2		1 CR2-Y2	905	IK
1 TP2-2		1 T2-X2	902	IK
1 TP2-3		1 CR2-Y3	906	IK
1 TP2-3		1 T2-X3	903	IK
1 TP2-4		1 C117	936	MN
1 TP2-4		1 CR2- RED	934	MN
1 TP2-5		1 C118	937	MN
1 TP2-5		1 CR2- BLK	935	MN
1 TP2-6		1 S1-B1	316	B
1 TP2-7		1 S1-A1	301	B
1 XDS1-A2		1 R27-1	182	

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 32 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
1 XDS1-A2		1 E12	107	C
1 XDS1-C1		1 XDS2-C1	161	C
1 XDS1-C1		1 R27-2	183	
1 XDS1-C1		1 E11	106	C
1 XDS2-A2		1 E13	108	C
1 XDS2-A2		1 R27-1	184	
1 XDS2-C1		1 XDS1-C1	161	C
1 XDS2-C1		1 R27-2	185	
1 XK1-2		1 R30-2	191	C
1 XK1-3		1 GND	192	C
1 XK1-6		1 TB201-9	193	C
1 XK1-7		1 TB201-10	194	C
1 XV1- WHT		1 XV2- WHT	550	G
1 XV1- BLK		1 XV2- BLK	551	G
1 XV2- WHT		1 XV1- WHT	550	G
1 XV2- BLK		1 XV1- BLK	551	G
1 XV2- WHT		1 E42	548	G
1 XV2- BLK		1 E43	549	G
10 P5	CTR	1 J25	871	U
10 P5	SHLD	1 J25	871	U
10 P6	CTR	1 J26	872	U
10 P6	SHLD	1 J26	872	U
10 P7	CTR	1 J27	873	U
10 P7	SHLD	1 J27	873	U
10 P8	CTR	1 J28	874	U
10 P8	SHLD	1 J28	874	U
10 P9	CTR	1 J29	875	U
10 P9	SHLD	1 J29	875	U
10 P10-1		1 E59	255	A
10 P10-3		1 E78	135	A
10 P10-4		1 E36	253	A
10 P10-5		1 E53	268	A
10 P10-6		1 E51	266	A
10 P10-7		1 E54	269	A
10 P10-8		1 E1	251	A
10 P10-9		1 E58	254	A
10 P10-12		1 E52	267	A

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 33 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
10 P10-13		1 E50	265	A
10 P10-14		1 E55	270	A
10 P10-15		1 E2	252	A
20 J15-1	RED	1 J30-1	891	W
20 J15-2	BLK	1 J30-2	891	W
20 P12-1		20 P12-2	276	A
20 P12-1		1 E60	256	A
20 P12-2		20 P12-1	276	A
20 P12-3		1 E81	736	A
20 P12-4		30 P9-6	273	A
20 P12-5		30 P9-5	274	A
20 P12-6		1 E83	737	A
20 P12-7		1 E86	738	A
20 P12-8		1 E66	271	A
20 P12-9		20 P12-10	739	A
20 P12-10		1 E61	257	A
20 P12-10		20 P12-9	739	A
20 P12-12		1 E76	260	A
20 P12-13		30 P9-7	275	A
20 P12-15		1 E67	272	A
20 P13	CTR	1 P11	801	T
20 P13	SHLD	1 P11	801	T
20 P14	CTR	1 P15	805	T
20 P14	SHLD	1 P15	805	T
30 P9-1		1 E46	261	A
30 P9-2		1 E47	262	A
30 P9-3		1 E48	263	A
30 P9-4		1 E49	264	A
30 P9-5		20 P12-5	274	A
30 P9-6		20 P12-4	273	A
30 P9-7		20 P12-13	275	A
30 P9-9		1 E62	258	A
30 P9-11		1 E63	259	A
30 P10	CTR	1 P12	802	T
30 P10	SHLD	1 P12	802	T
30 P11	CTR	1 P16	806	T
30 P11	SHLD	1 P16	806	T

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 34 of 35)

FROM	CONDUCTOR	TO	WIRE	CODE
30 P12	CTR	1 P13	803	T
30 P12	SHLD	1 P13	803	T
30 P13	CTR	1 P17	807	T
30 P13	SHLD	1 P17	807	T
40 TB1-1		1 E64	131	C
40 TB1-2		1 E65	132	C
40 TB1-4		1 R62-1	180	
40 TB1-4		1 E28	122	C
40 TB1-6		1 GND- CAB	175	C
40 TB1-6		1 E29	123	C
40 TB1-6		1 R62-2	181	

119-7

Figure 6. Amplifier Cabinet MI-560577 Wire Chart – 3732119 (Sheet 35 of 35)

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED

NOTES:

1. RUBBER STAMP .19 HIGH STANDARD CHARACTERS FOR ELECTRICAL SYMBOLS USING BLACK PRINTERS INK.

2. CABLE WIRES AND LACE USING CORD IT. 153. AT POINTS OF CABLE WHERE ABRASION TO WIRES OR ELECTRICAL SHORT TO SHIELDED CABLE MIGHT OCCUR, WRAP CABLE WITH TAPE ITEM T52.

3. IN MAKING WIRE CONNECTIONS USE FOLLOWING TYPE TERMINALS AS BEST SUITED, UNLESS OTHERWISE SPECIFIED:

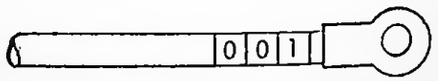
TERMINAL DWG.	PARTS	AWG #	INSULATION DIA MAX.	COLOR
8982998	1-6	22-26	.082	Yel.
8982998	10-21	18-22	.136	Red
8982998	25-32	14-16	.170	Blue
8982998	36-46	10-12	.275	Yel.
8982998	50-60	14-16	.275	Yel.

CAUTION:
TERMINAL SIZE MUST BE SELECTED BY REFERENCE TO BOTH AWG WIRE SIZE AND INSULATION DIAMETER, IN ACCORDANCE WITH THIS TABLE.

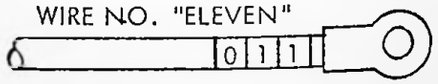
IF WIRING REQUIREMENTS CANNOT BE MET BY ABOVE, AN APPROVED SOLDER TYPE TERMINAL SHOULD BE USED.

ATTACH APPROPRIATE WIRE MARKERS TO BOTH ENDS OF WIRE TO READ AS SHOWN

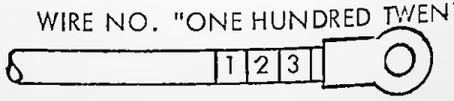
WIRE NO. "ONE"



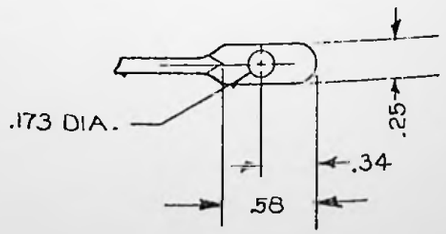
WIRE NO. "ELEVEN"



WIRE NO. "ONE HUNDRED TWENTY THREE



5. SWAGE AS SHOWN



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1H088

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	± .02	± .005
ABOVE 6 TO 24	± .03	± .010
ABOVE 24	± .06	± .015
ANGULAR DIMENSIONS ± ½ DEG.		
SEE PURCH. SPEC. FOR STOCK TOLERANCE		

FIRST MADE FOR — USED ON

DRAWN BY

DESIGNED BY

CHECKED BY

COMMODITY CODE

RADIO CORPORATION OF AMERICA

CODE IDENT NO. 49671

B 3732117

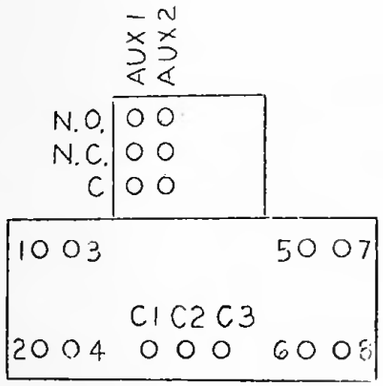
SHEET CONT'D ON SH

68379

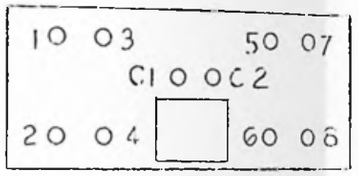
3732117

Figure 7. Power Supply Cabinet MI-560578 Wire Chart — 3732117 (Sheet 1 of 12)

DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING. ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED.



K3



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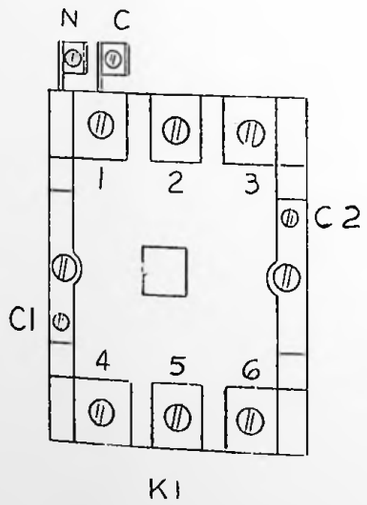
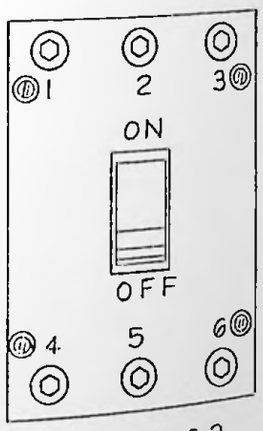
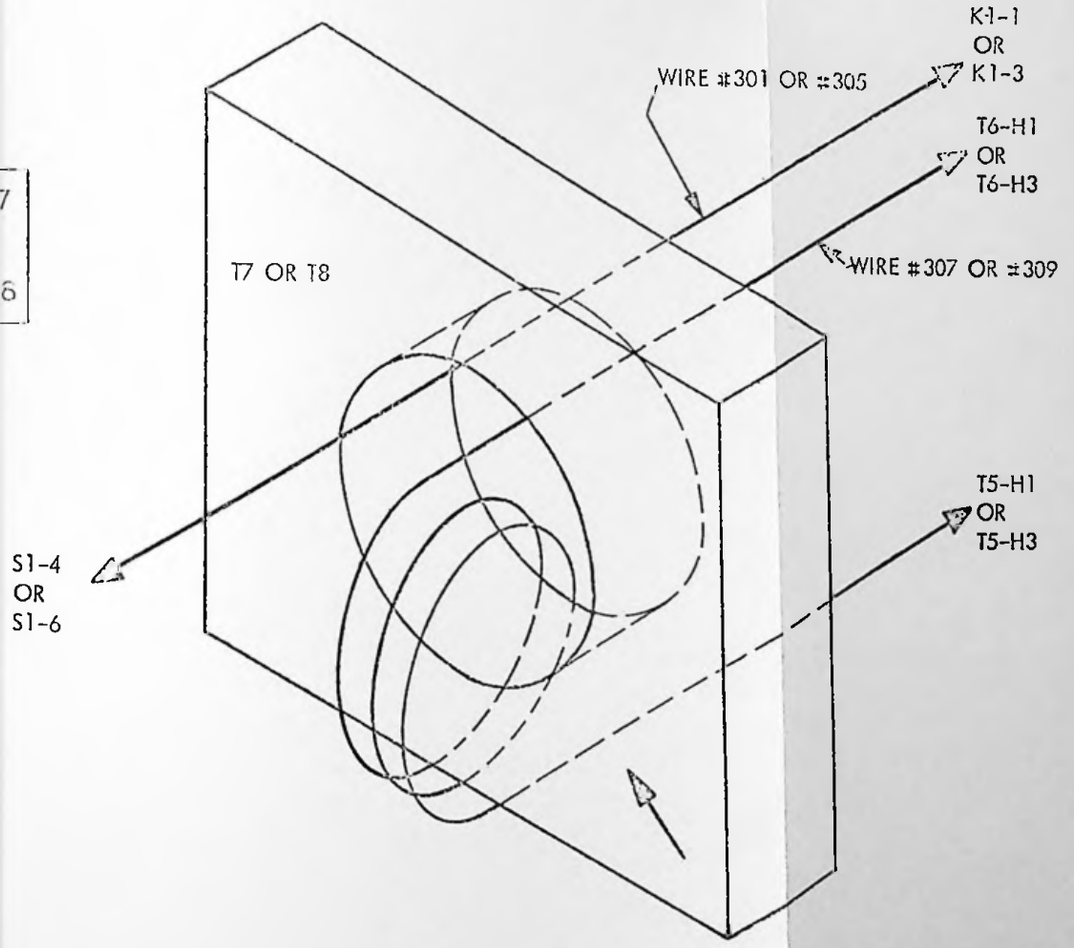


K1



S1 OR S2.

FIGURE "A"



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AP. BY	0
DATE	

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	± .02	± .005
ABOVE 6 TO 24	± .03	± .010
ABOVE 24	± .06	± .015
ANGULAR DIMENSIONS ± ½ DEG.		
SEE PURCH. SPEC. FOR STOCK TOLERANCE		

FIRST MADE FOR — USED ON

DRAWN BY

DESIGNED BY

CHECKED BY

COMMODITY CODE

RADIO CORPORATION OF AMERICA

CODE IDENT NO. 49671

B 3732117

SHEET — CONT'D ON SH

3732117

Figure 7. Power Supply Cabinet MI-560578 Wire Chart—3732117 (Sheet 2 of 12)

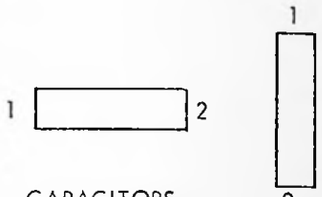
DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING. DO NOT SCALE DRAWING ALL EXTERNAL THREADS TO BE CLASS 2A BEFORE PLATING AND CLASS 2 AFTER PLATING; ALL INTERNAL THREADS TO BE CLASS 2B, UNLESS OTHERWISE SPECIFIED

WIRE CODE

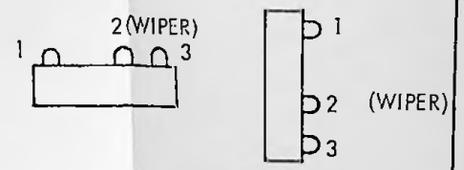
CODE LETTER	*MECH L P IT. NO.	DESCRIPTION	CODE LETTER	MECH L P IT. NO.	DESCRIPTION
A		20 AWG 300 V BLK	X	147	18 AWG T C BUSS
B		18 AWG 300 V BLK	Y	149	SLEEVE
C	141	16 AWG 300 V BLK			
D		16 AWG 600 V BLK			
E		16 AWG T/C BUSS			
F		SLEEVE			
G	142	14 AWG 600 V BLK			
H	143	12 AWG 600V BLK			
I		8 AWG CABLE			
J	148	8 AWG T/C BUSS			
K		SLEEVE			
L	144	1/0 AWG 600V BLK			
M		4 AWG CABLE			
N		SLEEVE			
O		1/0 AWG CABLE			
P		SLEEVE			
Q	145	14 AWG 10KV WHT			
R	146	10 AWG 15KV WHT			
S		RG213U			
T		RG58			
U		RG59			
V		SHIELDED SINGLE			
W		SHIELDED PAIR			

* MECHANICAL PARTS LIST 3456992-501

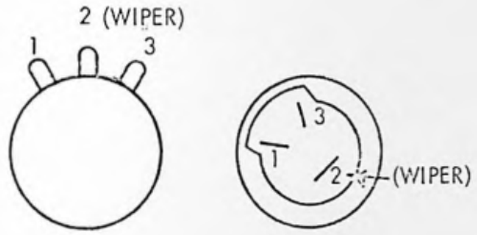
UNLESS OTHERWISE INDICATED COMPONENT TERMINALS TO BE AS SHOWN



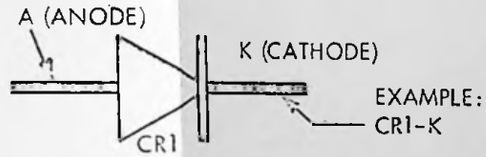
CAPACITORS, FIXED RESISTORS OR INDUCTORS



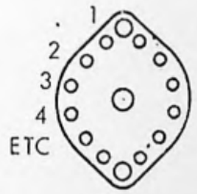
VARIABLE RESISTORS



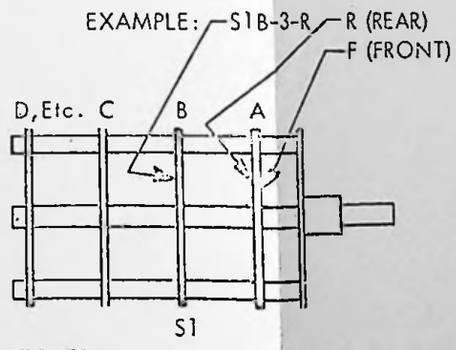
POTENTIOMETERS (VIEWED FROM REAR)



DIODES



(VIEWED FROM REAR)



ROTARY SWITCHES

REVISIONS	
AP. BY	0
DATE	

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC DIMENSIONS	2 PLACE DECIMALS	3 PLACE DECIMALS
UP TO 6	± .02	± .005
ABOVE 6 TO 24	± .03	± .010
ABOVE 24	± .06	± .015
ANGULAR DIMENSIONS ± ½ DEG.		
SEE PURCH. SPEC. FOR STOCK TOLERANCE		

FIRST MADE FOR

USED ON

DRAWN BY

CHECKED BY

DESIGNED BY

COMMODITY CODE

RADIO CORPORATION OF AMERICA

CODE IDENT NO. 49671

B SIZE | 3732117 SHEET | CONT'D ON SH

3732117

Figure 7. Power Supply Cabinet MI-560578 Wire Chart — 3732117 (Sheet 3 of 12)

FROM	CONDUCTOR	TO	WIRE	CODE
B1	W/RED	E31	131	
B1	W/YEL	E32	132	
B1	W/BLU	E33	133	
C1-1		K3-2	601	Q
C1-1		L1-2	602	Q
C1-1		R13-2	603	Q
C1-2		C2-2	604	Q
C2-1		L2-2	605	Q
C2-1		K3-4	606	Q
C2-2		R3-1	607	Q
C2-2		C1-2	604	Q
C3-1		R1-1	608	Q
C3-1		K3-8	611	Q
C3-2		K2-1	609	Q
C3-2		R3-1	610	Q
C4-1		K2-8	701	R
C4-1		R19-2	702	R
C4-2		K3-6	703	R
C5-2		R7-2	704	R
C6-1		R9-2	418	J
C6-2		T6-N	716	R
C7-1		R10-2	419	J
C8-1		R11-2	420	J
C9- RED		K3-C3	508	XY
C9- RED		R23-2	129	C
C9- RED		CR13- POS	501	XY
C9- BLK		R22-2	505	XY
CR1- K		L1-1	612	Q
CR1- A		T5-R1	616	Q
CR2- A		T5-R2	617	Q
CR3- A		T5-R3	618	Q
CR4- A		R20-2	421	J
CR7-A K		L4-1	706	R
CR7-B A		T6-R1 A	710	R
CR8-B A		T6-R1 B	712	R
CR9-B A		T6-R1 C	714	R
CR10-B A		R4-2	223	H

Figure 7. Power Supply Cabinet MI-560578 Wire Chart — 3732117 (Sheet 4 of 12)

FROM	CONDUCTOR	TO	WIRE	CODE
CR13- POS		C9- RED	501	XY
CR13- NEG		R22-1	507	XY
CR13-AC1		XK5-2	139	C
CR13-AC1		E21	107	C
CR13-AC2		XK5-7	141	C
CR13-AC2		E22	108	C
E1		E64	201	H
E2		E65	202	H
E3		E66	203	H
E4		T3-H5	101	G
E5		T4-H1	102	G
E6		T4-H5	103	G
E7		T3-X1	104	G
E8		T4-X3	105	G
E9		T3-X3	106	G
E11		E61	204	H
E11		S2-4	205	H
E12		E62	206	H
E12		S2-5	207	H
E13		E63	208	H
E13		S2-6	209	H
E14		T7-1	210	G
E15		T7-2	211	G
E16		T8-1	212	G
E17		R20-2	213	H
E18		R20-1	214	H
E19		R4-2	215	H
E20		R12-2	216	H
E21		CR13-AC1	107	C
E22		CR13-AC2	108	C
E23		K3-AUX1 COM	109	C
E24		K3-AUX2 COM	110	C
E25		K3-AUX1 NC	111	C
E26		K3-AUX1 NO	112	C
E27		K3-AUX2 NC	113	C
E28		K3-AUX2 NO	114	C
E29		S3- NO	115	C

Figure 7. Power Supply Cabinet MI-560578 Wire Chart – 3732117 (Sheet 5 of 12)

FROM	CONDUCTOR	TO	WIRE	CODE
E30		S4-C	116	C
E31	W/RED	B1	131	
E32	W/YEL	B1	132	
E33	W/BLU	B1	133	
E34		K1-C1	117	C
E35		K1-C2	118	C
E36		K1-N	119	C
E37		K1-O	120	C
E38		K2-C1	121	C
E39		K2-C2	122	C
E40		XV1- BLK	217	G
E41		XV1- WHT	218	G
E42		XK4-2	137	C
E43		S5-3	147	C
E44		S5-1	146	C
E61		T1-H1	225	
E61		E11	204	H
E62		T1-H2	226	
E62		E12	206	H
E63		T1-H3	227	
E63		E13	208	H
E64		T1-X2	228	
E64		E1	201	H
E65		T1-X1	229	
E65		E2	202	H
E66		T1-X3	230	
E66		E3	203	H
GND		R20-1	422	J
GND		K3-7	408	J
GND		R12-1	411	J
GND		R14-2	414	J
GND		R15-1	415	J
K1-1		S1-4	301	C FIGA
K1-2		S1-5	303	C
K1-3		S1-6	305	C FIGA
K1-4		T6-H1	310	C
K1-5		T6-H2	311	C

Figure 7. Power Supply Cabinet MI-560578 Wire Chart — 3732117 (Sheet 6 of 12)

FROM	CONDUCTOR	TO	WIRE	CODE
K1-6		T6-H3	312	L
K1-C1		E34	117	C
K1-C2		E35	118	C
K1-N		E36	119	C
K1-U		E37	120	C
K2-1		K2-3	401	J
K2-1		C3-2	609	Q
K2-2		R3-2	219	H
K2-2		K2-4	402	J
K2-3		K2-1	401	J
K2-4		K2-2	402	J
K2-5		K2-7	403	J
K2-6		K2-8	404	J
K2-7		R8-1	220	H
K2-7		K2-5	403	J
K2-8		R8-2	705	R
K2-8		K2-6	404	J
K2-8		C4-1	701	R
K2-C1		E38	121	C
K2-C2		E39	122	C
K3-1		K3-3	405	J
K3-2		C1-1	601	Q
K3-3		K3-5	406	J
K3-3		K3-1	405	J
K3-4		C2-1	606	Q
K3-5		K3-7	407	J
K3-5		K3-3	406	J
K3-6		C4-2	703	R
K3-7		GND	408	J
K3-7		K3-5	407	J
K3-8		C3-1	611	Q
K3-AUX1 COM		E23	109	C
K3-AUX1 NC		E25	111	C
K3-AUX1 NO		E26	112	C
K3-AUX2 COM		E24	110	C
K3-AUX2 NC		E27	113	C
K3-AUX2 NO		E28	114	C

Figure 7. Power Supply Cabinet MI-560578 Wire Chart – 3732117 (Sheet 7 of 12)

FROM	CONDUCTOR	TO	WIRE	CODE
K3-C1		XK5-1	138	C
K3-C2		R21-2	503	XY
K3-C3		R21-1	502	XY
K3-C3		C9- RED	508	XY
L1-1		CR1- K	612	Q
L1-2		C1-1	602	Q
L2-1		L3-1	613	Q
L2-2		C2-1	605	Q
L3-1		T5-N	614	Q
L3-1		L2-1	613	Q
L3-2		R2-1	615	Q
L4-1		CR7-A K	706	R
L4-2		R5-2	707	R
R1-1		C3-1	608	Q
R1-2		R15-2	416	J
R2-1		L3-2	615	Q
R2-2		R15-2	409	J
R3-1		C2-2	607	Q
R3-1		C3-2	610	Q
R3-2		R20-1	221	H
R3-2		K2-2	219	H
R4-1		R12-2	412	J
R4-2		CR10-B A	223	H
R4-2		E19	215	H
R5-1		R6-1	410	J
R5-2		L4-2	707	R
R6-1		R5-1	410	J
R6-2		R7-1	708	R
R7-1		R16-1	709	R
R7-1		R6-2	708	R
R7-2		C5-2	704	R
R8-1		R12-2	222	H
R8-1		K2-7	220	H
R8-2		K2-8	705	R
R9-1		T6-R1 A	711	R
R9-2		C6-1	418	J
R10-1		T6-R1 B	713	R

Figure 7. Power Supply Cabinet MI-560578 Wire Chart – 3732117 (Sheet 8 of 12)

FROM	CONDUCTOR	TO	WIRE	CODE
R10-2		C7-1	419	J
R11-1		T6-R1 C	715	R
R11-2		C8-1	420	J
R12-1		GND	411	J
R12-2		R4-1	412	J
R12-2		E20	216	H
R12-2		R8-1	222	H
R13-1		R14-1	413	J
R13-2		C1-1	603	O
R14-1		R13-1	413	J
R14-2		GND	414	J
R15-1		GND	415	J
R15-2		R1-2	416	J
R15-2		R2-2	409	J
R16-1		R7-1	709	R
R17-2		R18-1	417	J
R18-1		R17-2	417	J
R19-2		C4-1	702	R
R20-1		GND	422	J
R20-1		E18	214	H
R20-1		R3-2	221	H
R20-2		CR4- A	421	J
R20-2		E17	213	H
R21-1		K3-C3	502	XY
R21-2		K3-C2	503	XY
R22-1		CR13- NEG	507	XY
R22-1		XK5-4	140	C
R22-2		R23-3	504	XY
R22-2		C9- BLK	505	XY
R23-2		C9- RED	129	C
R23-3		R22-2	504	XY
S1-4		K1-1	301	C FIGA
S1-4		S2-1	302	C
S1-5		K1-2	303	C
S1-5		S2-2	304	C
S1-6		K1-3	305	C FIGA
S1-6		S2-3	306	C

Figure 7. Power Supply Cabinet MI-560578 Wire Chart – 3732117 (Sheet 9 of 12)

FROM	CONDUCTOR	TO	WIRE	CODE
S2-1		S1-4	302	L
S2-2		S1-5	304	L
S2-3		S1-6	306	L
S2-4		E11	205	H
S2-5		E12	207	H
S2-6		E13	209	H
S3- NO		E29	115	C
S3-C		S4- NO	130	C
S4- NO		S3-C	130	C
S4-C		E30	116	C
S5-1		E44	146	C
S5-3		E43	147	C
T1-H1		E61	225	
T1-H2		E62	226	
T1-H3		E63	227	
T1-X1		E65	229	
T1-X2		E64	228	
T1-X3		E66	230	
T2-H1		T3-H5	123	G
T2-H2		T2-H3	134	G
T2-H3		T2-H2	134	G
T2-H5		T4-H1	124	G
T2-X1		T4-X3	126	G
T2-X3		T3-X1	127	G
T3-H1		T4-H5	125	G
T3-H2		T3-H3	135	G
T3-H3		T3-H2	135	G
T3-H3		T4-H2	136	G
T3-H5		T2-H1	123	G
T3-H5		E4	101	G
T3-X1		E7	104	G
T3-X1		T2-X3	127	G
T3-X3		T4-X1	128	G
T3-X3		E9	106	G
T4-H1		E5	102	G
T4-H1		T2-H5	124	G
T4-H2		T3-H3	136	G

Figure 7. Power Supply Cabinet MI-560578 Wire Chart — 3732117 (Sheet 10 of 12)

FROM	CONDUCTOR	TO	WIRE	CODE
T4-H5		E6	103	G
T4-H5		T3-H1	125	G
T4-X1		T3-X3	128	G
T4-X3		E8	105	G
T4-X3		T2-X1	126	G
T5-H1		T6-H1	307	L FIGA
T5-H2		T6-H2	308	L
T5-H3		T6-H3	309	L FIGA
T5-N		L3-1	614	Q
T5-R1		CR1- A	616	Q
T5-R2		CR2- A	617	Q
T5-R3		CR3- A	618	Q
T6-H1		K1-4	310	L
T6-H1		T5-H1	307	L FIGA
T6-H2		K1-5	311	L
T6-H2		T5-H2	308	L
T6-H3		K1-6	312	L
T6-H3		T5-H3	309	L FIGA
T6-N		C6-2	716	R
T6-R1 A		CR7-B A	710	R
T6-R1 A		R9-1	711	R
T6-R1 B		CR8-B A	712	R
T6-R1 B		R10-1	713	R
T6-R1 C		CR9-B A	714	R
T6-R1 C		R11-1	715	R
T7-1		E14	210	G
T7-2		T8-2	224	G
T7-2		E15	211	G
T8-1		E16	212	G
T8-2		T7-2	224	G
XK4-1		XK5-1	509	XY
XK4-2		E42	137	C
XK4-3		XK5-4	510	XY
XK4-7		XK5-7	511	XY
XK5-1		K3-C1	138	C
XK5-1		XK4-1	509	XY
XK5-2		CR13-AC1	139	C

Figure 7. Power Supply Cabinet MI-560578 Wire Chart — 3732117 (Sheet 11 of 12)

FROM	CONDUCTOR	TO	WIRE	CODE
XK5-4		R22-1	140	C
XK5-4		XK4-3	510	XY
XK5-7		CR13-AC2	141	C
XK5-7		XK4-7	511	XY
XV1- WHT		E41	218	G
XV1- BLK		E40	217	G

117-3

Figure 7. Power Supply Cabinet MI-560578 Wire Chart — 3732117 (Sheet 12 of 12)

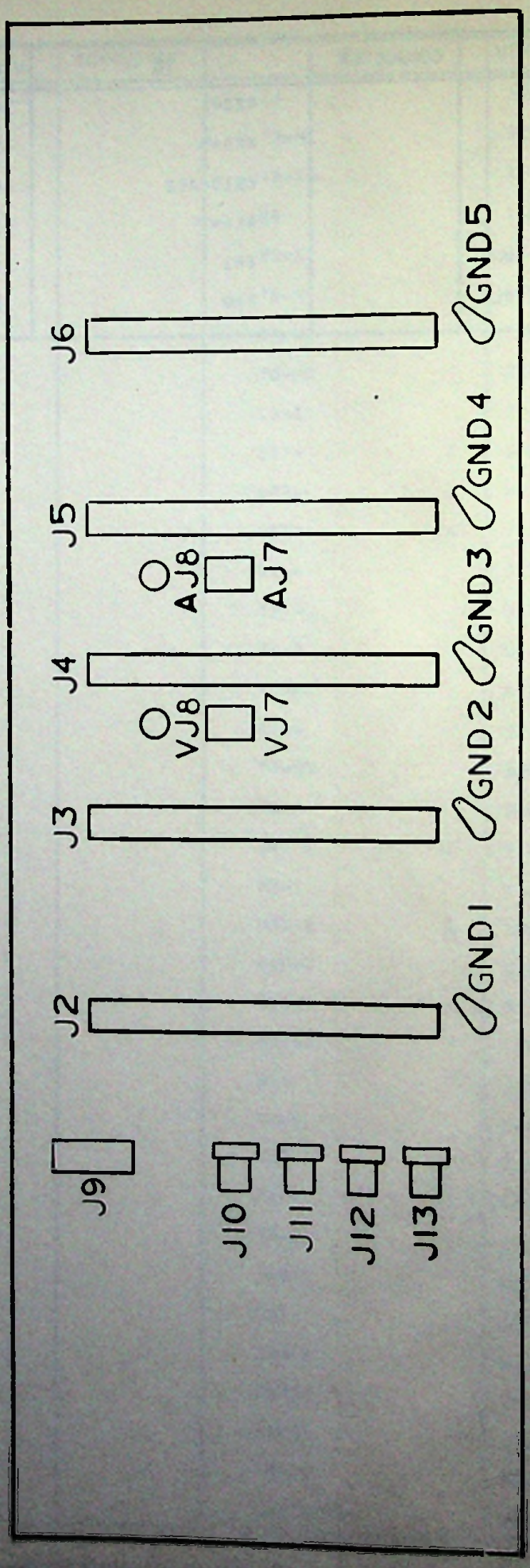


FIG. 1

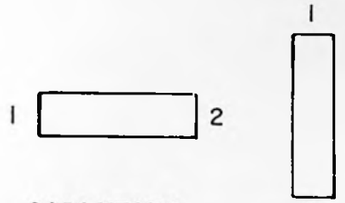
Figure 8. 20W Aural and Visual Amplifier ES-560617 Interconnection Wire Chart – 3721902 (Sheet 1 of 5)

WIRE CODE

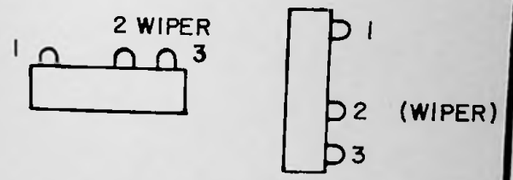
ODE TTER	MECH L P IT. NO.	DESCRIPTION	CODE LETTER	MECH L P IT. NO.	DESCRIPTION
A	39	20 AWG 600V WHT			
B	41	RG-174/U			
C	42	RG-58A/U			

MECHANICAL L/P 3459995-502

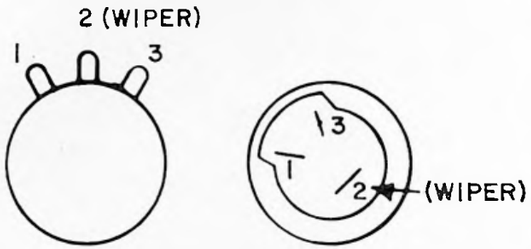
UNLESS OTHERWISE INDICATED COMPONENT TERMINALS TO BE AS SHOWN



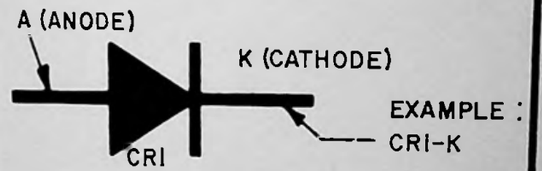
CAPACITORS, FIXED RESISTORS OR INDUCTORS



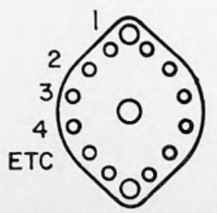
VARIABLE RESISTORS



POTENTIOMETERS (VIEWED FROM REAR)



DIODES



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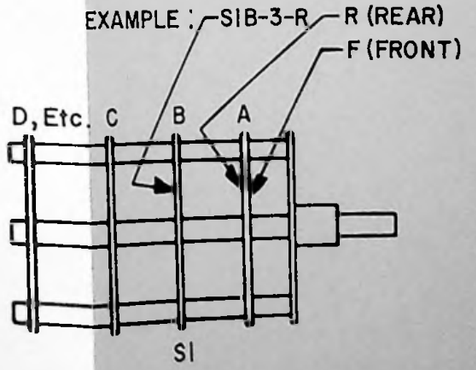


ROTARY SWITCHES

Figure 8. 20W Aural and Visual Amplifier ES-560617 Interconnection Wire Chart – 3721902 (Sheet 2 of 5)

FROM	TO	CONDUCTOR	CODE	REMARKS
30 AJ7-A	30 J10	CTR	B	
30 AJ7-A	30 J10	SHLD	B	
30 AJ8	30 J12	CTR	C	
30 AJ8	30 J12	SHLD	C	
30 GND1	30 J2-21		A	GND
30 GND2	30 J3-22		A	GND
30 GND3	30 J4-22		A	GND
30 GND4	30 J5-22		A	GND
30 GND5	30 J6-22		A	GND
30 GND6-22	30 J5-22		A	GND
30 GND9-1	30 J6-1		A	
30 GND9-2	30 J6-4		A	
30 GND9-3	30 J6-8		A	
30 GND9-4	30 J6-12		A	
30 GND9-5	30 J6-18		A	
30 GND9-6	30 J6-19		A	
30 J2-2	30 J2-3		A	+24V
30 J2-2	30 J4-4		A	+24V
30 J2-3	30 J2-2		A	+24V
30 J2-4	30 J2-5		A	+24V
30 J2-4	30 J5-4		A	+24V
30 J2-5	30 J2-4		A	+24V
30 J2-6	30 J2-7		A	+24V
30 J2-6	30 J4-2		A	+24V
30 J2-7	30 J2-8		A	+24V
30 J2-7	30 J2-6		A	+24V
30 J2-8	30 J2-7		A	+24V
30 J2-9	30 J2-10		A	+24V
30 J2-9	30 J5-2		A	+24V
30 J2-10	30 J2-11		A	+24V
30 J2-10	30 J2-9		A	+24V
30 J2-11	30 J2-10		A	+24V
30 J2-12	30 J2-13		A	GND
30 J2-13	30 J2-14		A	GND
30 J2-13	30 J2-12		A	GND
30 J2-14	30 J2-21		A	GND

Figure 8. 20W Aural and Visual Amplifier ES-560617 Interconnection Wire Chart — 3721902 (Sheet 3 of 5)

FROM	TO	CONDUCTOR	CODE	REMARKS
30 J2-14	30 J2-13		A	GND
30 J2-16	30 J2-17		A	117VAC
30 J2-17	30 J9-9		A	117VAC
30 J2-17	30 J2-16		A	117VAC
30 J2-19	30 J2-20		A	117VAC
30 J2-20	30 J9-11		A	117VAC
30 J2-20	30 J2-19		A	117VAC
30 J2-21	30 J3-22		A	GND
30 J2-21	30 GND1		A	GND
30 J2-21	30 J2-14		A	GND
30 J3-17	30 J5-15		A	
30 J3-18	30 J5-16		A	
30 J3-19	30 J4-15		A	
30 J3-20	30 J4-16		A	
30 J3-22	30 GND2		A	GND
30 J3-22	30 J4-22		A	GND
30 J3-22	30 J2-21		A	GND
30 J4-1	30 J4-2		A	+24V
30 J4-2	30 J2-6		A	+24V
30 J4-2	30 J4-1		A	+24V
30 J4-4	30 J2-2		A	+24V
30 J4-15	30 J3-19		A	
30 J4-16	30 J3-20		A	
30 J4-20	30 J4-21		A	GND
30 J4-21	30 J4-22		A	GND
30 J4-21	30 J4-20		A	GND
30 J4-22	30 GND3		A	GND
30 J4-22	30 J5-22		A	GND
30 J4-22	30 J3-22		A	GND
30 J4-22	30 J4-21		A	GND
30 J5-1	30 J5-2		A	+24V
30 J5-2	30 J2-9		A	+24V
30 J5-2	30 J5-1		A	+24V
30 J5-4	30 J2-4		A	+24V
30 J5-15	30 J3-17		A	
30 J5-16	30 J3-18		A	
30 J5-20	30 J5-21		A	GND

Figure 8. 20W Aural and Visual Amplifier ES-560617 Interconnection Wire Chart — 3721902 (Sheet 4 of 5)

FROM	TO	CONDUCTOR	CODE	REMARKS
30 J5-21	30 J5-22		A	GND
30 J5-21	30 J5-20		A	GND
30 J5-22	30 GND4		A	GND
30 J5-22	30 GND6-22		A	GND
30 J5-22	30 J4-22		A	GND
30 J5-22	30 J5-21		A	GND
30 J6-1	30 GND9-1		A	
30 J6-4	30 GND9-2		A	
30 J6-8	30 GND9-3		A	
30 J6-12	30 GND9-4		A	
30 J6-18	30 GND9-5		A	
30 J6-19	30 GND9-6		A	
30 J6-20	30 J9-7		A	
30 J6-22	30 GND5		A	GND
30 J9-7	30 J6-20		A	
30 J9-9	30 J9-10		A	
30 J9-9	30 J2-17		A	117VAC
30 J9-10	30 J9-9		A	
30 J9-11	30 J9-12		A	
30 J9-11	30 J2-20		A	117VAC
30 J9-12	30 J9-11		A	
30 J10	30 AJ7-A	CTR	B	
30 J10	30 AJ7-A	SHLD	B	
30 J11	30 VJ7-A	CTR	B	
30 J11	30 VJ7-A	SHLD	B	
30 J12	30 AJ8	CTR	C	
30 J12	30 AJ8	SHLD	C	
30 J13	30 VJ8	CTR	C	
30 J13	30 VJ8	SHLD	C	
30 VJ7-A	30 J11	CTR	B	
30 VJ7-A	30 J11	SHLD	B	
30 VJ8	30 J13	CTR	C	
30 VJ8	30 J13	SHLD	C	

3732139-2

Figure 8. 20W Aural and Visual Amplifier ES-560617 Interconnection Wire Chart — 3721902 (Sheet 5 of 5)

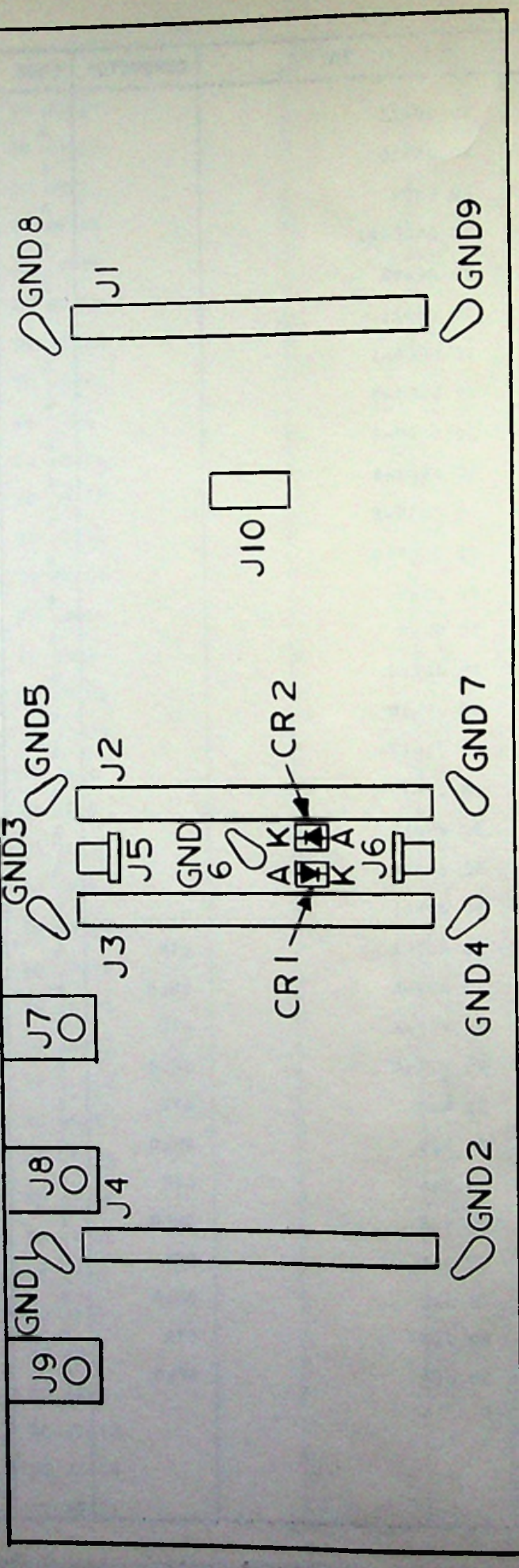


FIG. 1

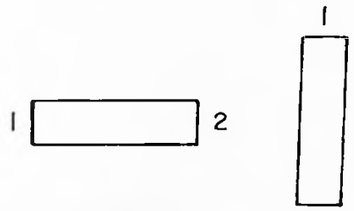
Figure 9. Visual Modulator ES-560618 Interconnection Wire Chart — 3721903 (Sheet 1 of 7)

WIRE CODE

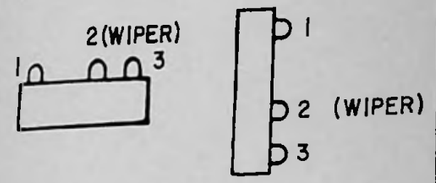
CODE LETTER	MECH L P IT. NO.	DESCRIPTION	CODE LETTER	MECH L P IT. NO.	DESCRIPTION
A	39	20 AWG 600 V WHT			
B	43	16 AWG T/C BUS			
C	44	SLEEVE			

MECHANICAL L/P 3459995-503

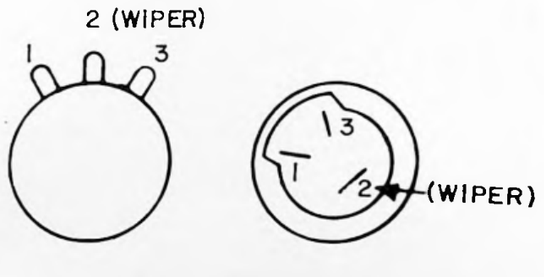
UNLESS OTHERWISE INDICATED COMPONENT TERMINALS TO BE AS SHOWN



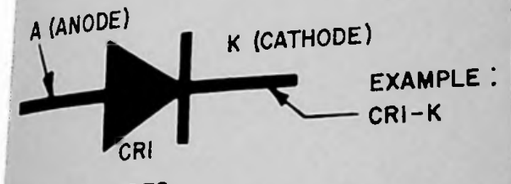
CAPACITORS,
FIXED RESISTORS OR INDUCTORS



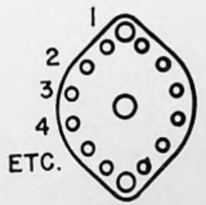
VARIABLE RESISTORS



POTENTIOMETERS
(VIEWED FROM REAR)



DIODES



(VIEWED FROM REAR)
ROTARY SWITCHES

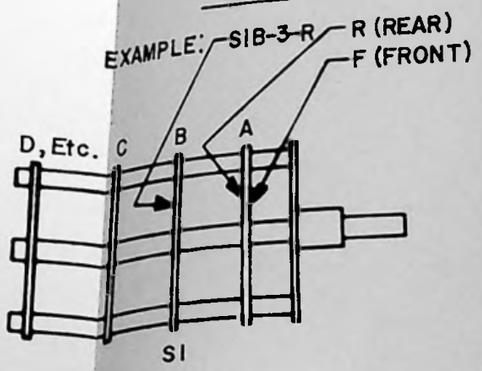


Figure 9. Visual Modulator ES-560618 Interconnection Wire Chart — 3721903 (Sheet 2 of 7)

FROM		TO		CONDUCTOR	CODE	REMARKS
10 CR1-=	A	10 J2-9				-10VDC FIG1
10 CR1-	K	10 J6-	CTR			VIDEO IN FIG1
10 CR2-	A	10 J6-	CTR			VIDEO IN FIG1
10 CR2-	K	10 J2-11				+10VDC FIG1
10 GND1		10 J4-1			A	GND
10 GND2		10 J4-22			A	GND
10 GND3		10 J3-1			A	GND
10 GND4		10 J3-16			A	GND
10 GND4		10 J3-22			A	GND
10 GND5		10 J2-1			A	GND
10 GND6		10 J2-5			BC	GND LOOP IN
10 GND8		10 J1-11			A	GND
10 GND9		10 J1-22			A	GND
10 J1-2		10 J1-3			A	-110VDC
10 J1-3		10 J4-15			A	-110VDC
10 J1-3		10 J1-2			A	-110VDC
10 J1-5		10 J2-10			A	-24VDC
10 J1-5		10 J3-8			A	-24VDC
10 J1-6		10 J4-6			A	-24VDC
10 J1-7		10 J2-16			A	-10VDC
10 J1-7		10 J3-9			A	-10VDC
10 J1-8		10 J4-7			A	-10VDC
10 J1-9		10 J2-15			A	+10VDC
10 J1-9		10 J3-10			A	+10VDC
10 J1-10		10 J4-8			A	+10VDC
10 J1-10		10 J10-15			A	+10VDC
10 J1-11		10 GND8			A	GND
10 J1-11		10 J1-12			A	GND
10 J1-12		10 J1-13			A	GND
10 J1-12		10 J1-11			A	GND
10 J1-13		10 J1-21			A	GND
10 J1-13		10 J1-12			A	GND
10 J1-15		10 J1-16			A	GND
10 J1-16		10 J10-1			A	117VAC
10 J1-16		10 J1-15			A	117VAC
10 J1-17		10 J2-20			A	117VAC
						INTLK

Figure 9. Visual Modulator ES-560618 Interconnection Wire Chart — 3721903 (Sheet 3 of 7)

FROM	TO	CONDUCTOR	CODE	REMARKS
10 J1-18	10 J1-19		A	117VAC
10 J1-19	10 J10-9		A	117VAC
10 J1-19	10 J1-18		A	117VAC
10 J1-20	10 J10-4		A	INTLK
10 J1-21	10 J1-22		A	GND
10 J1-21	10 J1-13		A	GND
10 J1-22	10 GND9		A	GND
10 J1-22	10 J1-21		A	GND
10 J2-1	10 GND5		A	GND
10 J2-1	10 J2-2		A	GND
10 J2-2	10 J2-4		A	GND
10 J2-2	10 J2-1		A	GND
10 J2-3	10 J5-	CTR	A	VIDEO IN
10 J2-4	10 J2-6		A	GND
10 J2-4	10 J2-2		A	GND
10 J2-5	10 GND6		BC	GND LOOP IN
10 J2-6	10 J2-7		A	GND
10 J2-6	10 J2-4		A	GND
10 J2-7	10 J2-8		A	GND
10 J2-7	10 J2-6		A	GND
10 J2-8	10 J2-13		A	GND
10 J2-8	10 J2-7		A	GND
10 J2-9	10 J2-16		A	-10VDC
10 J2-9	10 CR1-	A		-10VDC FIG1
10 J2-10	10 J1-5		A	-24VDC
10 J2-11	10 J2-15		A	+10VDC
10 J2-11	10 CR2-	K		+10VDC FIG1
10 J2-12	10 J3-3		BC	VIDEO OUT
10 J2-13	10 J2-14		A	GND
10 J2-13	10 J2-8		A	GND
10 J2-14	10 J2-22		A	GND
10 J2-14	10 J2-13		A	GND
10 J2-15	10 J1-9		A	+10VDC
10 J2-15	10 J2-11		A	+10VDC
10 J2-16	10 J1-7		A	-10VDC
10 J2-16	10 J2-9		A	-10VDC
10 J2-17	10 J4-9		A	-CLAMP PULSE OUT

Figure 9. Visual Modulator ES-560618 Interconnection Wire Chart — 3721903 (Sheet 4 of 7)

FROM	TO	CONDUCTOR	CODE	REMARKS
10 J2-18	10 J3-5		A	+CLAMP PULSE OUT
10 J2-19	10 J3-13		A	SYNC
10 J2-20	10 J1-17		A	INTLK
10 J2-21	10 J3-11		A	INTLK
10 J2-22	10 J2-14		A	GND
10 J3-1	10 GND3		A	GND
10 J3-1	10 J3-2		A	GND
10 J3-2	10 J3-4		A	GND
10 J3-2	10 J3-1		A	GND
10 J3-3	10 J2-12		BC	VIDEO OUT
10 J3-4	10 J3-15		A	GND
10 J3-4	10 J3-2		A	GND
10 J3-5	10 J2-18		A	+CLAMP PULSE OUT
10 J3-6	10 J7- CTR		A	VIDEO OUT(1V P-P)
10 J3-7	10 J4-17		BC	VIDEO OUT
10 J3-8	10 J1-5		A	-24VDC
10 J3-9	10 J1-7		A	-10VDC
10 J3-10	10 J1-9		A	+10VDC
10 J3-11	10 J2-21		A	INTLK
10 J3-12	10 J4-20		A	GND
10 J3-13	10 J2-19		A	SYNC
10 J3-15	10 J3-16		A	GND
10 J3-15	10 J3-4		A	GND
10 J3-16	10 GND4		A	GND
10 J3-16	10 J3-15		A	GND
10 J3-17	10 J10-6		A	VIDEO GAIN MOTOR
10 J3-18	10 J10-13		A	VIDEO GAIN MOTOR
10 J3-19	10 J10-5		A	SYNC GAIN MOTOR
10 J3-20	10 J10-12		A	SYNC GAIN MOTOR
10 J3-22	10 GND4		A	GND
10 J4-1	10 GND1		A	GND
10 J4-1	10 J4-2		A	GND
10 J4-2	10 J4-12		A	GND
10 J4-2	10 J4-1		A	GND
10 J4-3	10 J10-8		A	CONTROL IN
10 J4-4	10 J9- CTR		A	VIDEO DET IN

Figure 9. Visual Modulator ES-560618 Interconnection Wire Chart — 3721903 (Sheet 5 of 7)

FROM	TO	CONDUCTOR	CODE	REMARKS
10 J4-5	10 J8- CTR		A	VIDEO OUT (MON)
10 J4-6	10 J1-6		A	-24VDC
10 J4-7	10 J1-8		A	-10VDC
10 J4-8	10 J1-10		A	+10VDC
10 J4-9	10 J2-17		A	-CLAMP PULSE OUT
10 J4-10	10 J10-7		A	PED CONTROL MOTOR
10 J4-11	10 J10-14		A	PED CONTROL MOTOR
10 J4-12	10 J4-13		A	GND
10 J4-12	10 J4-2		A	GND
10 J4-13	10 J4-18		A	GND
10 J4-13	10 J4-12		A	GND
10 J4-15	10 J1-3		A	-110VDC
10 J4-17	10 J3-7		BC	VIDEO OUT
10 J4-18	10 J4-19		A	GND
10 J4-18	10 J4-13		A	GND
10 J4-19	10 J4-22		A	GND
10 J4-19	10 J4-18		A	GND
10 J4-20	10 J3-12		A	GND
10 J4-21	10 J10-3		A	INTLK
10 J4-22	10 GND2		A	GND
10 J4-22	10 J4-19		A	GND
10 J5- CTR	10 J6- CTR		BC	VIDEO IN
10 J5- CTR	10 J2-3		A	VIDEO IN
10 J6- CTR	10 CR1- K			VIDEO IN FIG1
10 J6- CTR	10 CR2- A			VIDEO IN FIG1
10 J6- CTR	10 J5- CTR		BC	VIDEO IN
10 J7- CTR	10 J3-6		A	VIDEO OUT(1V P-P)
10 J8- CTR	10 J4-5		A	VIDEO OUT (MON)
10 J9- CTR	10 J4-4		A	VIDEO DET IN
10 J10-1	10 J1-16		A	117VAC
10 J10-3	10 J4-21		A	INTLK
10 J10-4	10 J1-20		A	INTLK
10 J10-5	10 J3-19		A	SYNC GAIN MOTOR
10 J10-6	10 J3-17		A	VIDEO GAIN MOTOR
10 J10-7	10 J4-10		A	PED CONTROL MOTOR
10 J10-8	10 J4-3		A	CONTROL IN
10 J10-9	10 J1-19		A	117VAC

Figure 9. Visual Modulator ES-560618 Interconnection Wire Chart — 3721903 (Sheet 6 of 7)

FROM	TO	CONDUCTOR	CODE	REMARKS
10 J10-12	10 J3-20		A	SYNC GAIN MOTOR
10 J10-13	10 J3-18		A	VIDEO GAIN MOTOR
10 J10-14	10 J4-11		A	PED CONTROL MOTOR
10 J10-15	10 J1-10		A	+10VDC

3732138-2

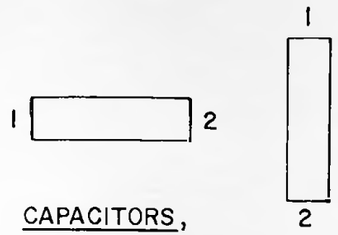
Figure 9. Visual Modulator ES-560618 Interconnection Wire Chart — 3721903 (Sheet 7 of 7)

WIRE CODE

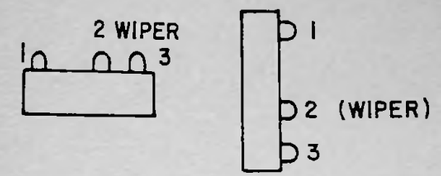
CODE LETTER	MECH L P IT. NO.	DESCRIPTION	CODE LETTER	MECH L P IT. NO	DESCRIPTION
A	39	20 AWG 600 V WHT			
B	41	RG-174/U			
C	40	SHIELDED PAIR			

MECHANICAL L/P 3459995-501

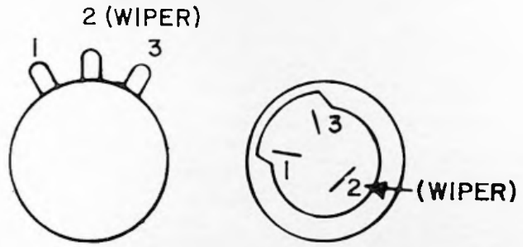
UNLESS OTHERWISE INDICATED COMPONENT TERMINALS TO BE AS SHOWN



CAPACITORS, FIXED RESISTORS OR INDUCTORS

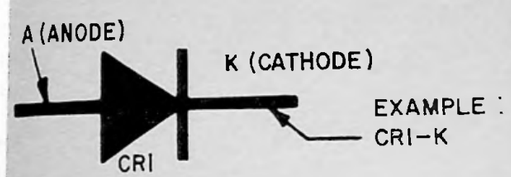


VARIABLE RESISTORS

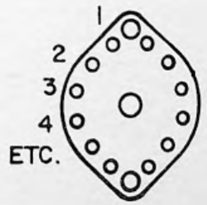


POTENTIOMETERS

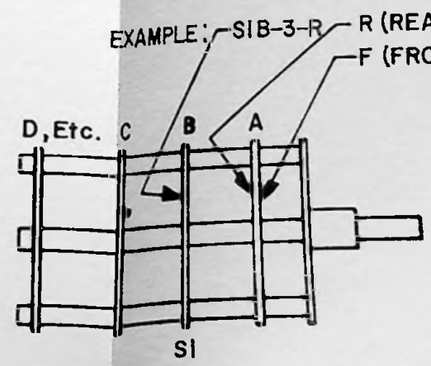
(VIEWED FROM REAR)



DIODES



(VIEWED FROM REAR)



ROTARY SWITCHES

Figure 10. 5W Exciter ES-560622 Interconnection Wire Chart 3721901 (Sheet 1 of 6)

FROM	TO	CONDUCTOR	CODE	REMARKS
GND8	20 J9-NC	SHLD	C	GND
20 AJ1-A	20 J2-E	CTR	B	FA INPUT
20 AJ1-A	20 J2-E	SHLD	B	
20 AJ1-E	20 J13	CTR	B	FA OUTPUT
20 AJ1-E	20 J13	SHLD	B	
20 C1-1 BAND	20 GND9			FIG1
20 C1-2	20 J6-3			FIG1
20 C2-1 BAND	20 J11-10			FIG1
20 C2-2	20 J11-4			FIG1
20 GND1	20 J5-22		A	GND
20 GND2	20 J6-22		A	GND
20 GND3	20 J7-22		A	GND
20 GND4	20 J8-22		A	GND
20 GND5	20 J9-22		A	GND
20 GND6	20 J10-22		A	GND
20 GND7	20 J11-15		A	GND
20 GND9	20 C1-1 BAND			FIG1
20 J2-A	20 J4-B	CTR	B	FA/2 INPUT
20 J2-A	20 J4-B	SHLD	B	
20 J2-B	20 J3-B	CTR	B	FV/2 INPUT
20 J2-B	20 J3-B	SHLD	B	
20 J2-E	20 AJ1-A	CTR	B	FA INPUT
20 J2-E	20 AJ1-A	SHLD	B	
20 J2-F	20 VJ1-A	CTR	B	FV OUTPUT
20 J2-F	20 VJ1-A	SHLD	B	
20 J3-A	20 J4-A	CTR	B	AFC VOLTAGE
20 J3-A	20 J4-A	SHLD	B	
20 J3-B	20 J2-B	CTR	B	FV/2 INPUT
20 J3-B	20 J2-B	SHLD	B	
20 J3-F	20 J4-E	CTR	B	FM OSC SIGNAL-HIGH
20 J3-F	20 J4-E	SHLD	B	
20 J4-A	20 J3-A	CTR	B	AFC VOLTAGE
20 J4-A	20 J3-A	SHLD	B	
20 J4-B	20 J2-A	CTR	B	FA/2 INPUT
20 J4-B	20 J2-A	SHLD	B	
20 J4-E	20 J3-F	CTR	B	FM OSC SIGNAL-HIGH

Figure 10. 5W Exciter ES-560622 Interconnection Wire Chart — 3721901 (Sheet 2 of 6)

FROM	TO	CONDUCTOR	CODE	REMARKS
20 J4-E	20 J3-F	SHLD	B	
20 J5-2	20 J12-5		A	POWER CONTROL
20 J5-3	20 J6-3		A	+28V SUPPLY
20 J5-20	20 J10-18		A	+5W AMPL TEST
20 J5-21	20 J10-19		A	-5W AMPL TEST
20 J5-22	20 GND1		A	GND
20 J6-2	20 J12-4		A	POWER CONTROL
20 J6-3	20 J11-4		A	+28V SUPPLY
20 J6-3	20 C1-2			FIG1
20 J6-3	20 J11-5		A	+28V SUPPLY
20 J6-3	20 J5-3		A	+28V SUPPLY
20 J6-20	20 J10-20		A	+5W AMPL TEST
20 J6-21	20 J10-21		A	-5W AMPL TEST
20 J6-22	20 GND2		A	GND
20 J6-22	20 J11-12		A	GND
20 J7-1	20 K1-8		A	+28V SUPPLY
20 J7-3	20 J8-3		A	+28V SUPPLY
20 J7-10	20 J10-10		A	+MULT TEST
20 J7-11	20 J10-11		A	-MULT TEST
20 J7-22	20 GND3		A	GND
20 J8-1	20 J9-1		A	+28V OVEN
20 J8-2	20 J9-2		A	0V OVEN
20 J8-3	20 J9-4		A	+28V SUPPLY
20 J8-3	20 J7-3		A	+28V SUPPLY
20 J8-4	20 J9-5		A	+15V SUPPLY
20 J8-5	20 J10-5		A	+150V SUPPLY
20 J8-8	20 J10-8		A	+AUR REF TEST
20 J8-9	20 J10-9		A	-AUR REF TEST
20 J8-22	20 GND4		A	GND
20 J9- NC	GND8	SHLD	C	GND
20 J9-1	20 J12-8		A	+28V OVEN
20 J9-1	20 J8-1		A	+28V OVEN
20 J9-2	20 J12-15		A	0V OVEN
20 J9-2	20 J8-2		A	0V OVEN
20 J9-3	20 J10-6		A	-15V SUPPLY
20 J9-4	20 J10-3		A	+28V SUPPLY
20 J9-4	20 J8-3		A	+28V SUPPLY

Figure 10. 5W Exciter ES-560622 Interconnection Wire Chart — 3721901 (Sheet 3 of 6)

FROM	TO	CONDUCTOR	CODE	REMARKS
20 J9-5	20 J10-4		A	+15V SUPPLY
20 J9-5	20 J8-4		A	+15V SUPPLY
20 J9-7	20 J15-1	BLK	C	AUDIO INPUT
20 J9-8	20 J15-2	RED	C	AUDIO INPUT
20 J9-14	20 J10-14		A	+AFC TEST
20 J9-15	20 J10-15		A	-AFC TEST
20 J9-16	20 J10-16		A	+FM OSC TEST
20 J9-17	20 J10-17		A	-FM OSC TEST
20 J9-22	20 GND5		A	GND
20 J10-3	20 J11-2		A	+28V SUPPLY TEST
20 J10-3	20 J9-4		A	+28V SUPPLY
20 J10-4	20 J11-3		A	+15V SUPPLY TEST
20 J10-4	20 J9-5		A	+15V SUPPLY
20 J10-5	20 J11-8		A	+150V SUPPLY TEST
20 J10-5	20 J8-5		A	+150V SUPPLY
20 J10-6	20 J11-6		A	-15V SUPPLY TEST
20 J10-6	20 J9-3		A	-15V SUPPLY
20 J10-8	20 J8-8		A	+AUR REF TEST
20 J10-9	20 J8-9		A	-AUR REF TEST
20 J10-10	20 J7-10		A	+MULT TEST
20 J10-11	20 J7-11		A	-MULT TEST
20 J10-14	20 J9-14		A	+AFC TEST
20 J10-15	20 J9-15		A	-AFC TEST
20 J10-16	20 J9-16		A	+FM OSC TEST
20 J10-17	20 J9-17		A	-FM OSC TEST
20 J10-18	20 J5-20		A	+5W AMPL TEST
20 J10-19	20 J5-21		A	-5W AMPL TEST
20 J10-20	20 J6-20		A	+5W AMPL TEST
20 J10-21	20 J6-21		A	-5W AMPL TEST
20 J10-22	20 GND6		A	GND
20 J11-2	20 J10-3		A	+28V SUPPLY TEST
20 J11-3	20 J12-13		A	+28V SUPPLY
20 J11-3	20 K1-2		A	+28V SUPPLY
20 J11-3	20 J11-4		A	+28V SUPPLY
20 J11-3	20 J10-4		A	+15V SUPPLY TEST
20 J11-4	20 C2-2			FIG1

Figure 10. 5W Exciter ES-560622 Interconnection Wire Chart — 3721901 (Sheet 4 of 6)

FROM	TO	CONDUCTOR	CODE	REMARKS
20 J11-4	20 J11-5		A	
20 J11-4	20 J6-3		A	+28V SUPPLY
20 J11-4	20 J11-3		A	+28V SUPPLY
20 J11-5	20 J11-4		A	
20 J11-5	20 J6-3		A	+28V SUPPLY
20 J11-6	20 J10-6		A	-15V SUPPLY TEST
20 J11-8	20 J10-5		A	+150V SUPPLY TEST
20 J11-10	20 J11-11		A	GND
20 J11-10	20 C2-1	8AND		FIG1
20 J11-11	20 J11-13		A	GND
20 J11-11	20 J11-10		A	GND
20 J11-12	20 J6-22		A	GND
20 J11-13	20 J11-14		A	GND
20 J11-13	20 J11-11		A	GND
20 J11-14	20 J11-15		A	GND
20 J11-14	20 J11-13		A	GND
20 J11-15	20 GND7		A	GND
20 J11-15	20 J11-14		A	GND
20 J11-17	20 J11-18		A	117VAC
20 J11-17	20 J12-10		A	117VAC
20 J11-18	20 J11-17		A	117VAC
20 J11-20	20 J11-21		A	117VAC
20 J11-20	20 J12-1		A	117VAC
20 J11-21	20 J11-20		A	117VAC
20 J12-1	20 J12-2		A	117VAC
20 J12-1	20 J11-20		A	117VAC
20 J12-2	20 J12-1		A	117VAC
20 J12-3	20 K1-6		A	
20 J12-4	20 J6-2		A	POWER CONTROL
20 J12-5	20 J5-2		A	POWER CONTROL
20 J12-6	20 K1-1		A	
20 J12-7	20 K1-4		A	
20 J12-8	20 J9-1		A	+28V OVEN
20 J12-9	20 J12-10		A	
20 J12-10	20 J11-17		A	117VAC
20 J12-10	20 J12-9		A	
20 J12-12	20 K1-5		A	

Figure 10. 5W Exciter ES-560622 Interconnection Wire Chart — 3721901 (Sheet 5 of 6)

FROM	TO	CONDUCTOR	CODE	REMARKS
20 J12-13	20 J11-3		A	+28V SUPPLY
20 J12-15	20 J9-2		A	0V OVEN
20 J13	20 AJ1-E	CTR	B	FA OUTPUT
20 J13	20 AJ1-E	SHLD	B	
20 J14	20 VJ1-E	CTR	B	5W AUR OUTPUT
20 J14	20 VJ1-E	SHLD	B	
20 J15-1	20 J9-7	BLK	C	AUDIO INPUT
20 J15-2	20 J9-8	RED	C	AUDIO INPUT
20 K1-1	20 J12-6		A	
20 K1-2	20 J11-3		A	+28V SUPPLY
20 K1-4	20 J12-7		A	
20 K1-5	20 J12-12		A	
20 K1-6	20 J12-3		A	
20 K1-8	20 J7-1		A	+28V SUPPLY
20 VJ1-A	20 J2-F	CTR	B	FV OUTPUT
20 VJ1-A	20 J2-F	SHLD	B	
20 VJ1-E	20 J14	CTR	B	5W AUR OUTPUT
20 VJ1-E	20 J14	SHLD	B	

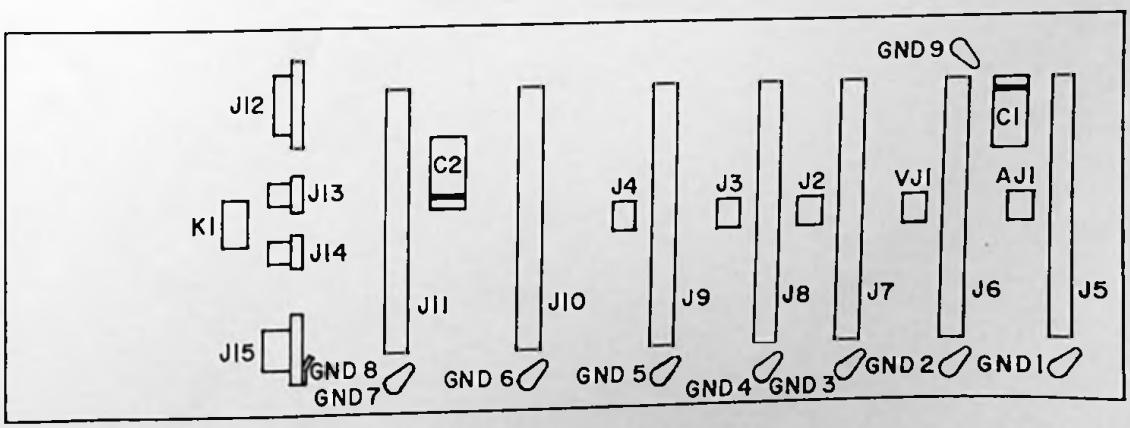


FIG. 1

3732145-3

Figure 10. 5W Exciter ES-560622 Interconnection Wire Chart — 3721901 (Sheet 6 of 6)

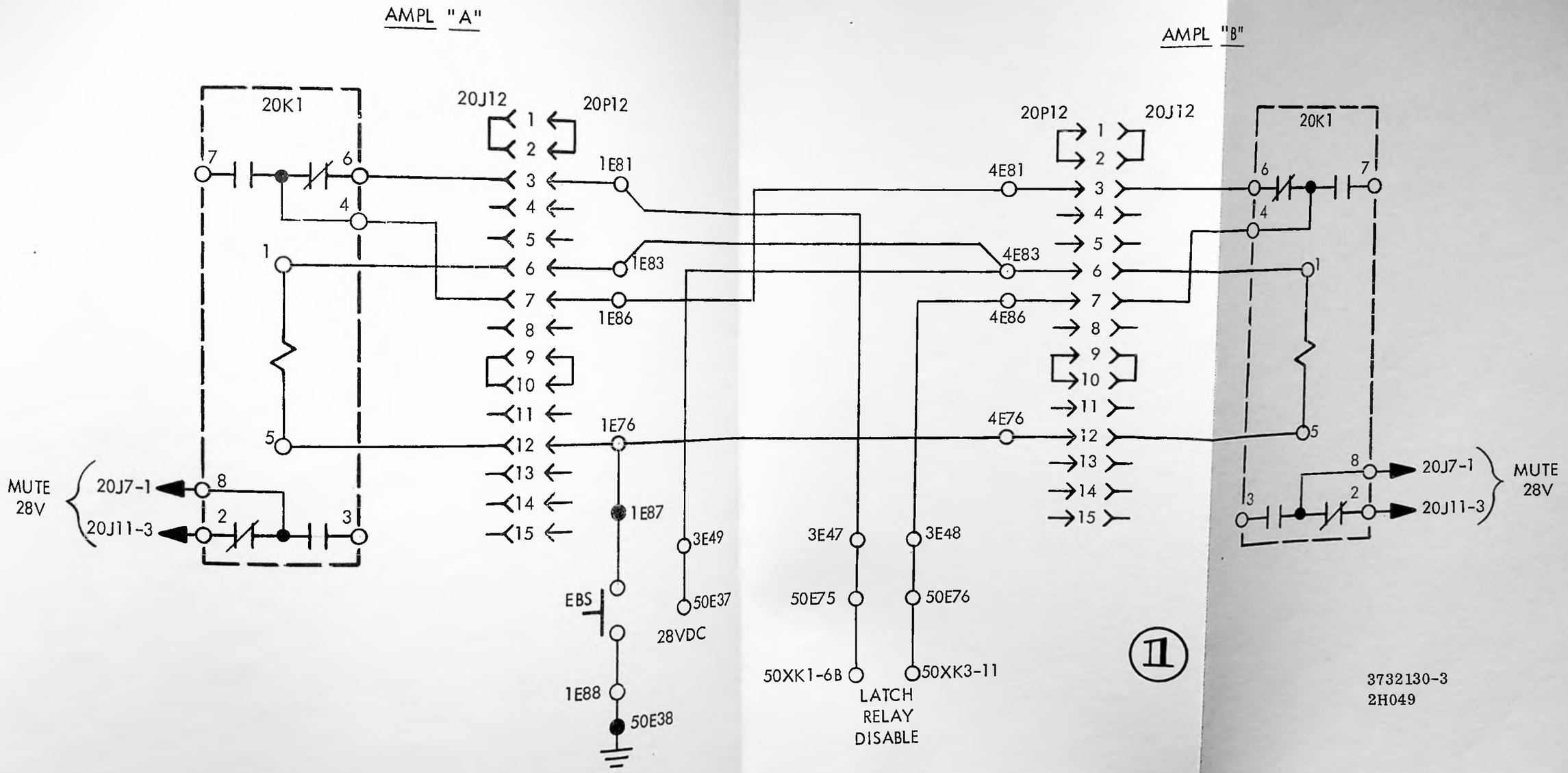
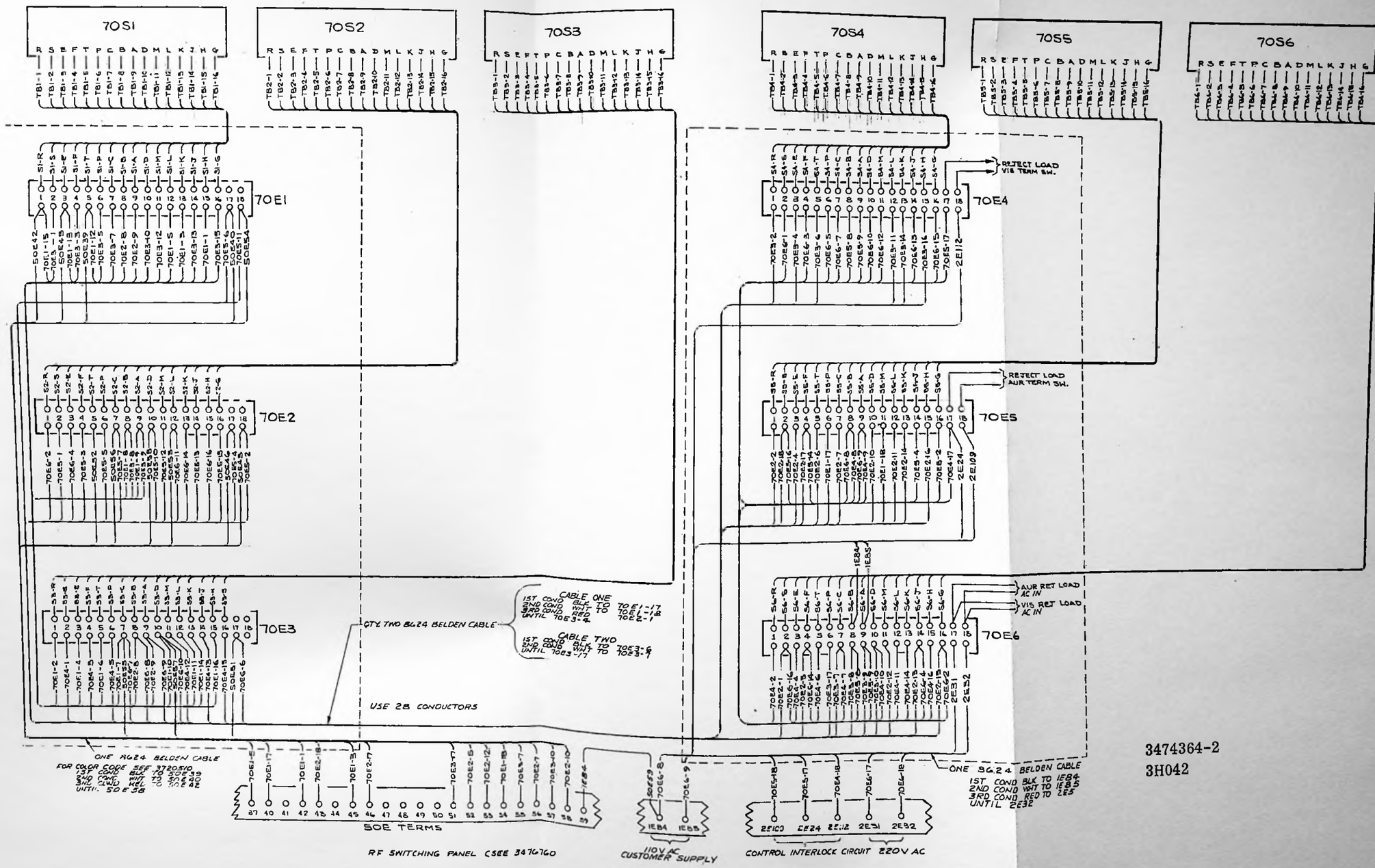


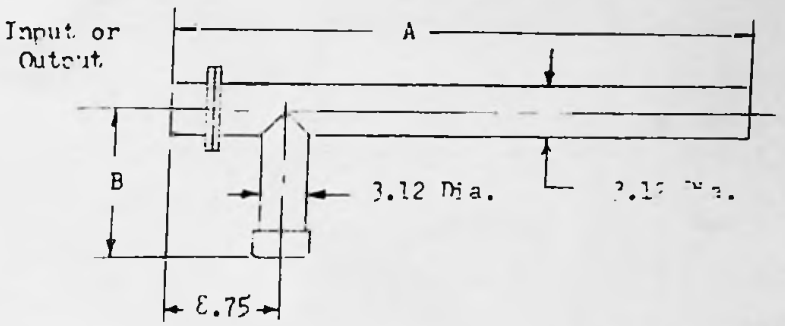
Figure 11. Emergency Broadcast System (EBS) Interconnection Wiring Diagram (3732130)



3474364-2
3H042

Figure 12. Aural and Visual Automatic Switching Interconnection Wiring Diagram (3474364)

MI-27317-A VHF HARMONIC FILTER



MECHANICAL SPECIFICATIONS

Mounting:
Horizontal position recommended
Recommended location:
Visual)
Aural) Between power amplifier and monitoring unit
Alternate locations:
Visual - Between vestigial sideband filter and diplexer
Diplexer Output - (Not recommended unless quadrature feed of turnstile antenna can be ascertained)
Note: Certain critical positions of the harmonic filter in the alternate locations may adversely affect monitoring unit, sideband filter and diplexer operation.

Ambient Temperature : 45 deg. C. maximum
Dimensions (inches)

Channel	A	B	Designation
2	175.00	26.50	MI-27317A-2
3,4	151.44	27.00	MI-27317A-3
5,6	125.33	23.00	MI-27317A-5
7,8,9	62.36	12.00	MI-27317A-7
10 to 13	55.53	11.00	MI-27317A-10

ELECTRICAL SPECIFICATIONS

Frequency	54 - 216 MC
Maximum Power	15 KW TV Peak, 9 KW average (7,500 ft. max. altitude)
Impedance	50 ohms
Input and Output	3 1/8" coaxial line, unflanged (MI-27791K)
VSWR	1.10 or better
Attenuation	30 DB or greater, 2nd through 4th harmonics of the TV Ch. 20 DB or greater, 5th through 6th harmonics of the TV Ch. Negligible, assigned television channel

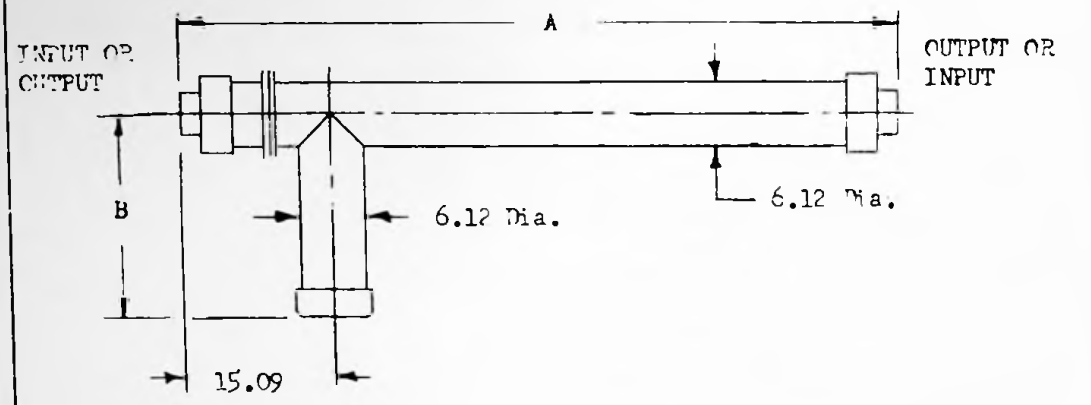
ACCESSORY

Coupling, straight, 3 1/8" coaxial line MI-27791K-4A (quantity 2 supplied)

R C A CAMDEN, NEW JERSEY 2H067
8008060-0

Figure 13. Harmonic Filter MI-27317-A Outline (8008060)

MI-27318B, VHF HARMONIC FILTER



MECHANICAL SPECIFICATIONS

Mounting	Horizontal position recommended
Recommended Location	Visual, Aural } Between power amplifier and monitoring unit
Alternate Locations	Visual - Between vestigial sideband filter and diplexer Diplexer Output - (not recommended unless quadrature feed of turnstile antenna can be ascertained)

NOTE: Certain critical positions of the harmonic filter in the alternate locations may adversely affect monitoring unit, sideband filter and diplexer operation.

Ambient Temperature: 45 degrees C. maximum

Dimensions (inches)

Channel	A	B	Designation
2	183.19	27.50	MI-27318B-2
3,4	160.44	26.12	MI-27318B-3
5,6	129.89	23.62	MI-27318B-5
7,8,9	73.11	16.00	MI-27318B-7
10 to 13	64.47	15.00	MI-27318B-10

ELECTRICAL SPECIFICATIONS

Frequency	54-216 MC.
Maximum Power	50 KW TV Peak, 30 KW average (7500 ft. max.altitude)
Impedance	50 ohms
Input and Output	3 1/8" Coaxial line unflanged
VSWR	1.10 or better
Attenuation	30 DB or greater, 2nd thru 4th harmonics of the TV channel. 20 DB or greater, 5th thru 6th harmonics of the TV channel. Negligible (less than 0.1 DB) assigned TV channel

R C A Camden, New Jersey

2H065
8008075-0

Figure 14. Harmonic Filter MI-27318-B Outline (8008075)

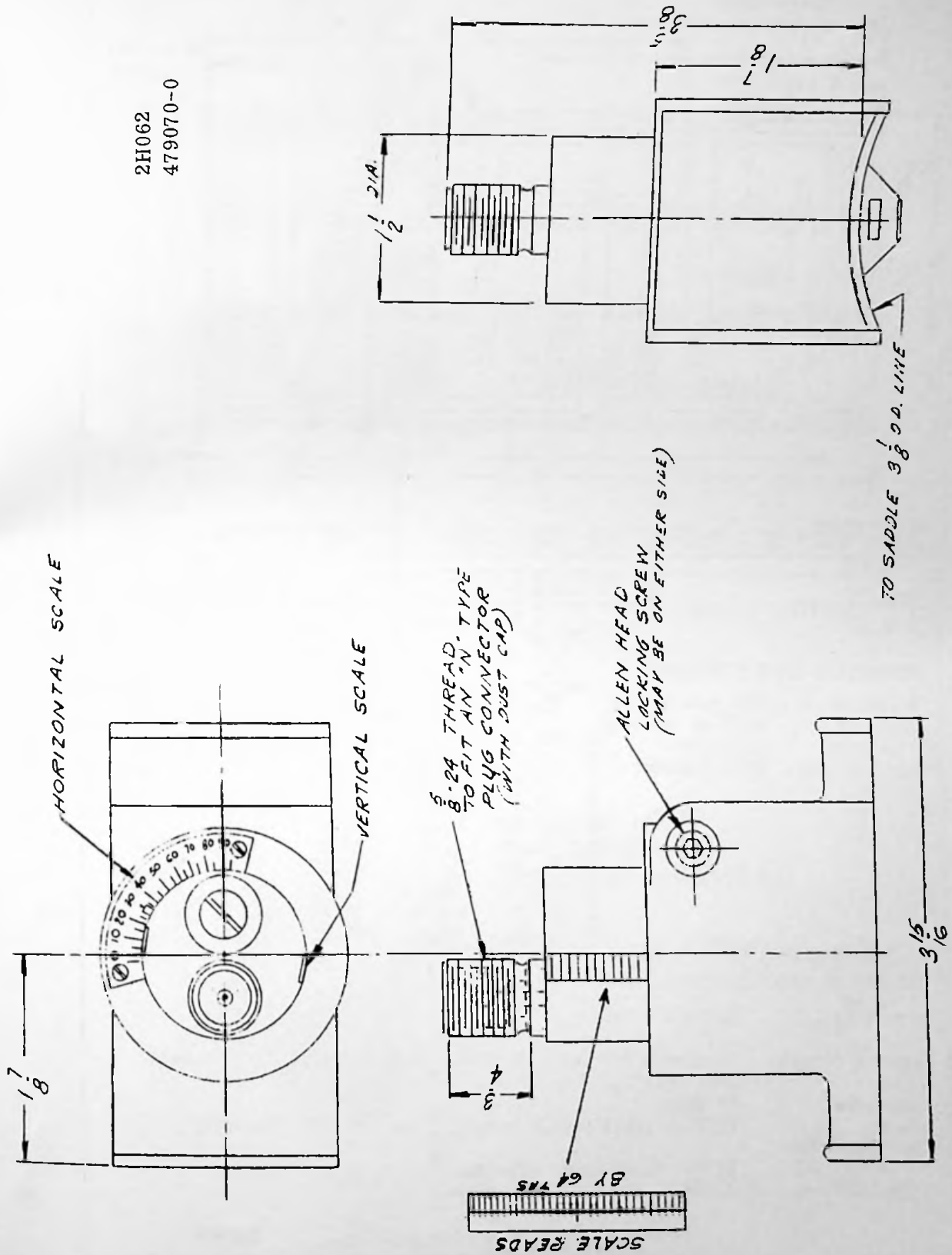
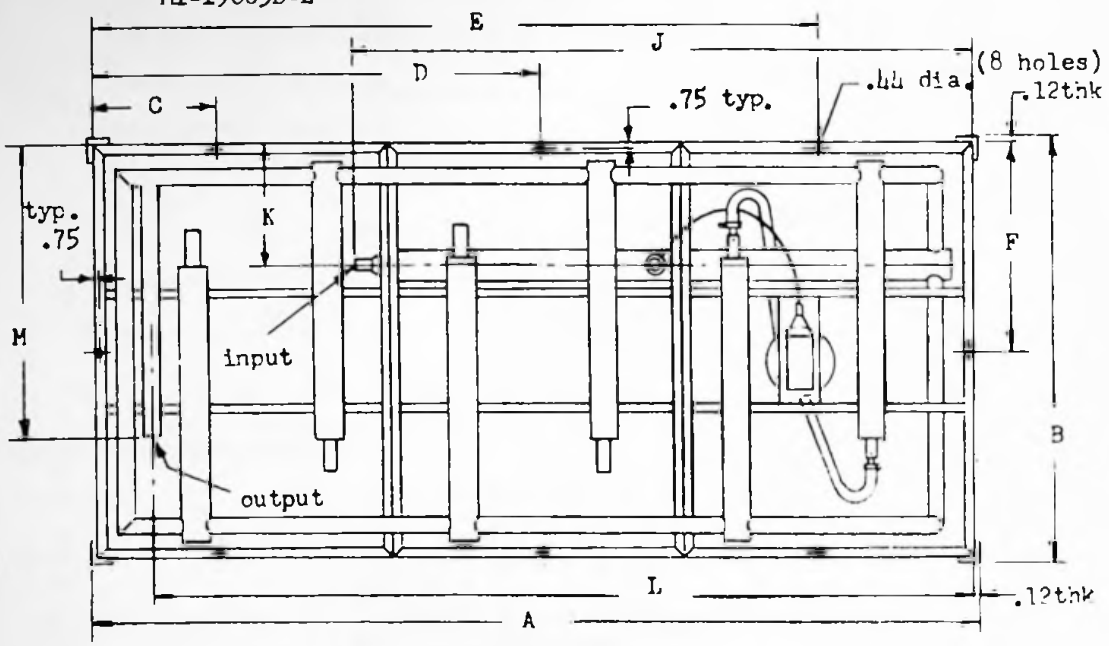
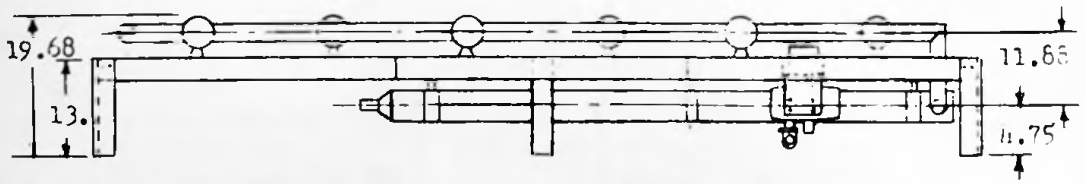


Figure 15. Directional Coupler Assembly MI-19393-1B Outline (479070)

MI-19085A-L Vestigial Sideband Filter (Channel 2 to 6)
MI-19085B-L





MECHANICAL SPECIFICATIONS:

Weight (approx)	950 pounds
Mounting	wall or ceiling
Clearance	12 inches
Ambient Temp.	45°C maximum

	Ch. 2	Ch. 3	Ch. 4	Ch. 5	Ch. 6
A	165.25	154.75	146.25	143.69	134.0
B	79.25	74.0	69.72	62.00	61.53
C	27.50	24.88	22.75	15.75	11.88
D	82.50	77.25	73.0	71.72	65.88
E	137.50	129.62	123.12	126.69	121.88
F	39.50	36.88	37.75	31.88	30.62
J	129.29	117.05	107.25	93.56	87.41
K	23.50	23.50	25.50	23.50	23.64
L	151.78	141.34	132.78	132.50	124.0
M	61.44	56.19	51.91	45.22	43.58

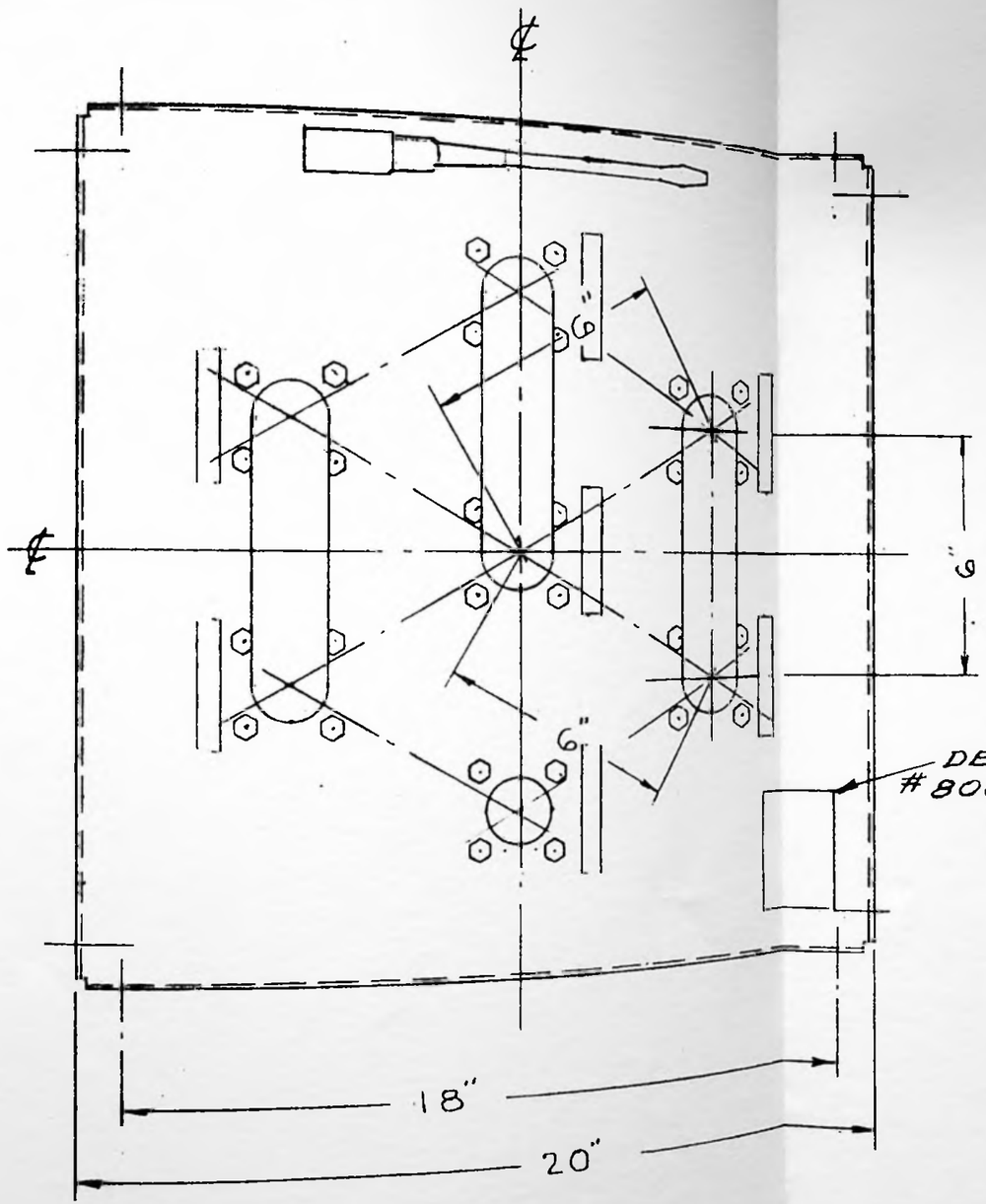
ELECTRICAL SPECIFICATIONS:

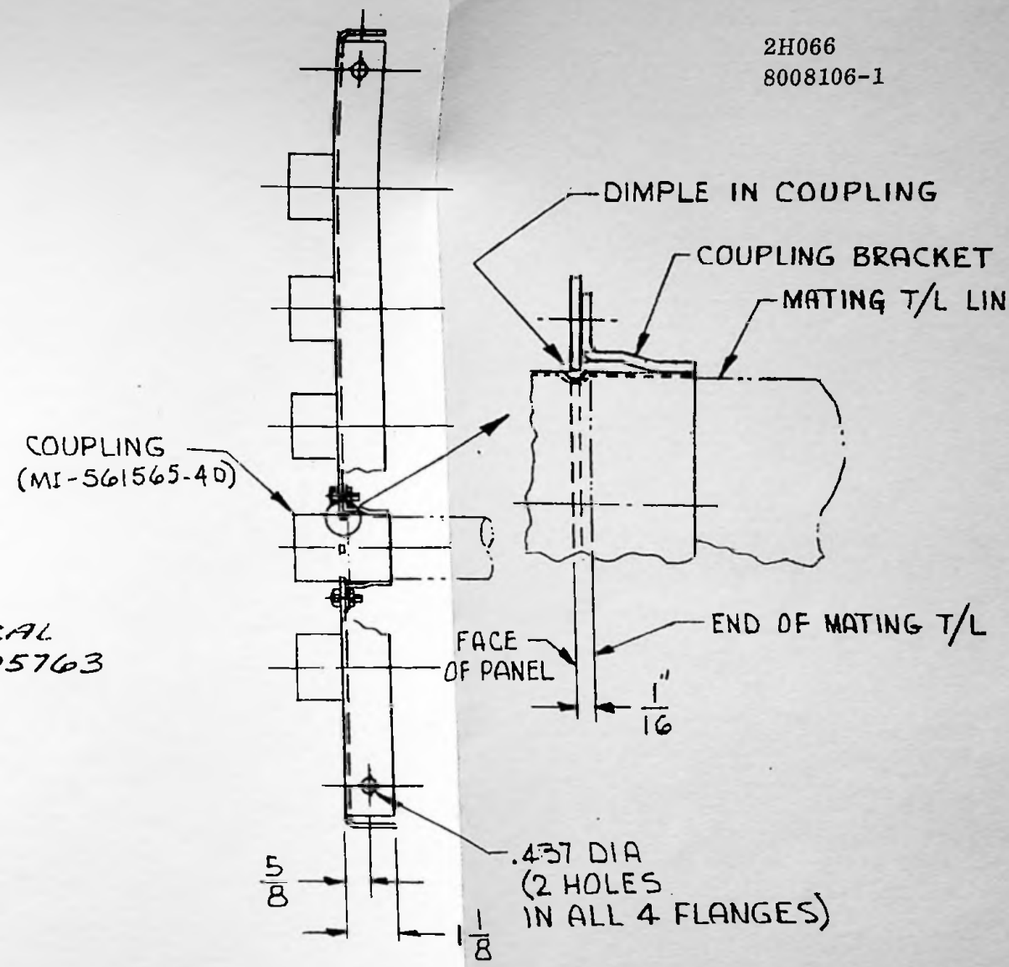
Frequency	54 to 88 MHz.
Input & Output	50 ohms 3 1/8 coaxial line, using coupling MI-27?-1K-44
VSWR	Less than 1.1
Impedance	50 ohms
Blower	115V 60 cycle single phase 3 amps (MI-19085A-L only)
Maximum Power	
MI-19085A-L	30 KW (5,000 feet elevation)
MI-19085B-L	25 KW (5,000 feet elevation)

2H068
R C A Camden, New Jersey 8008054-1

Figure 16. Vestigial Sideband Filter MI-19085A-L Outline (8008054)

2H066
8008106-1

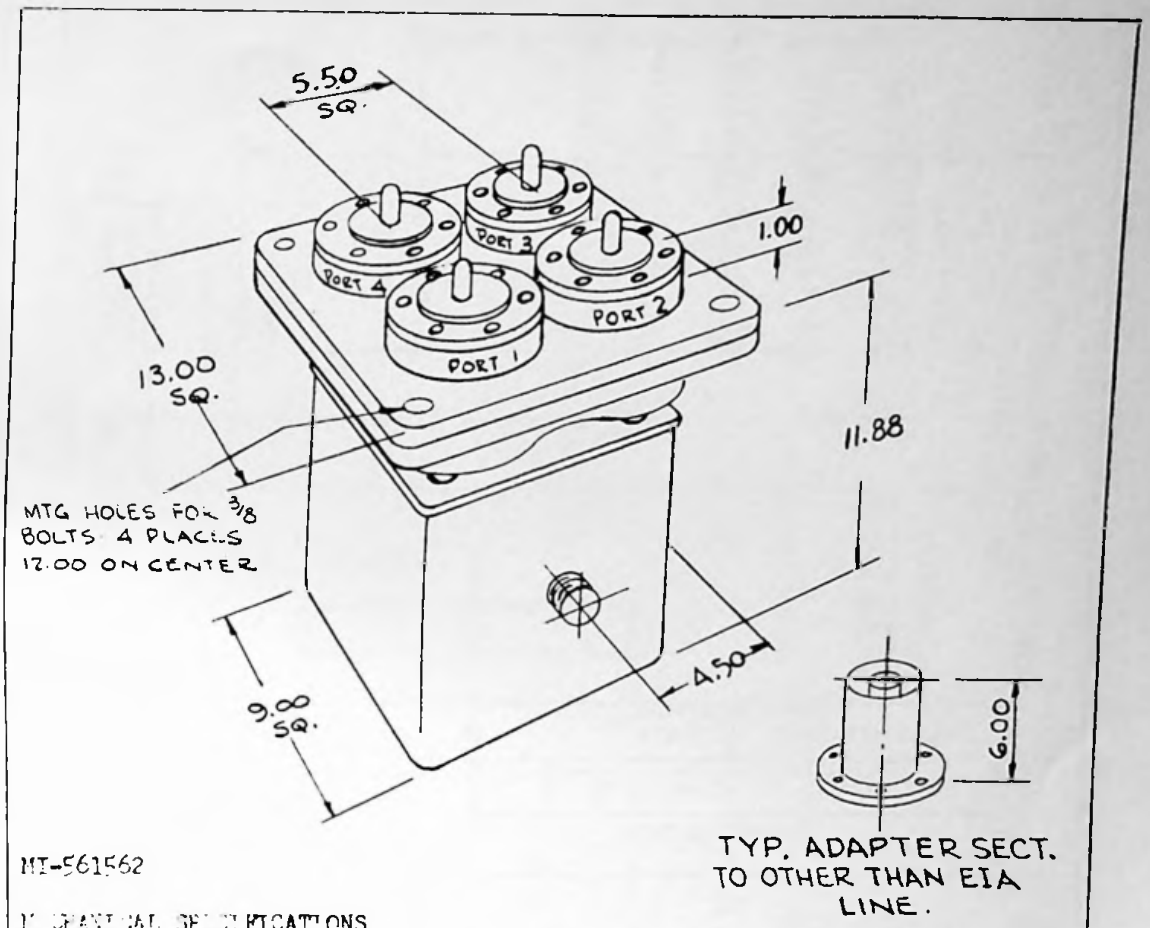




ELECTRICAL & MECHANICAL SPEC. #8906540.

(1) DIELECTRIC COMMUNICATIONS
RAYMOND, MAINE
VHF TRANSFER PANEL, MI-561586
TO BE SUPPLIED WITH 3 "U-BEND" CONNECTORS
AS SHOWN, PANEL TO BE FINISHED "MIDNIGHT BLUE"
OR APPROVED EQUIVALENT

Figure 17. VHF 7-Port Manual R-F Transfer Panel Outline (8008106)



MI-561562

MECHANICAL SPECIFICATIONS

WEIGHT 65 POUNDS (APPX)
MOUNTING ANY CONVENIENT POSITION
CLEARANCE 12 INCHES FOR COVER REMOVAL
CONNECTIONS PORTS 3 1/8 INCH EIA FLANGE SHOWN ABOVE-ADAPTER SECTIONS TO OTHER TERMINATIONS ARE 6 INCHES LONG.

CONTROL: ON/OFF RECEPTACLE-MALE AND FEMALE SUPPLIED
ON SWITCH: MS3102A-20-29P, MS3107A-20-29S ON CABLE

ELECTRICAL SPECIFICATIONS

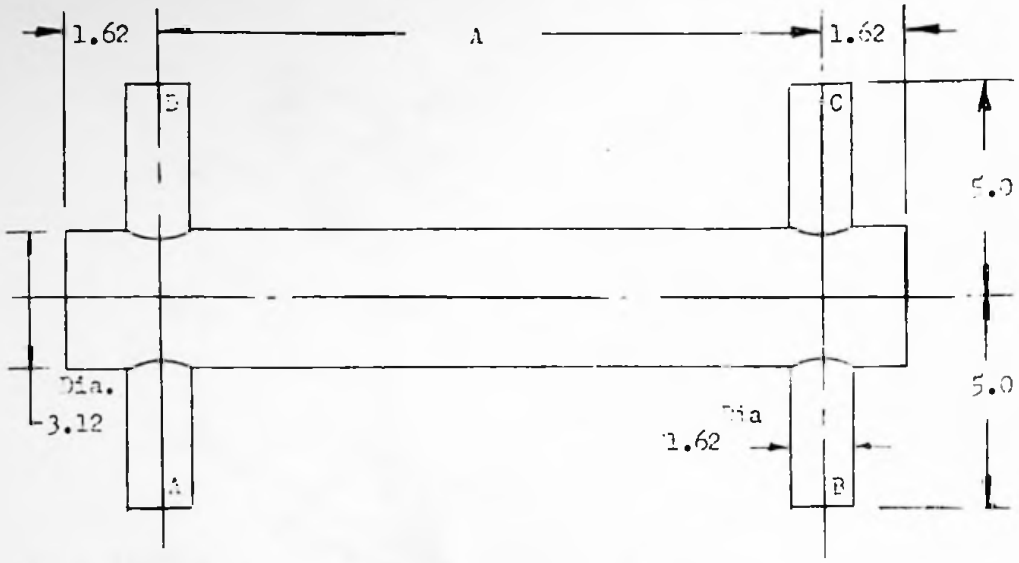
FREQUENCY	DC-900 MHz.
IMPEDANCE	50Ω/1.5 OHMS
POWER RATING	1KW AS TRANSMISSION LINE USED
VSWR	0-1: 1.03 to 1 MAXIMUM
	1-2: 1.05 to 1 MAXIMUM
INSERTION LOSS	.05 Db MAXIMUM
ISOLATION	50-900 MHz. 60 Db MINIMUM
SWITCHING TIME	2 SECONDS NOMINAL
DRIVING MOTOR	115 VOLTS 50/60 CYCLE SINGLE PHASE
	0.5 AMPS RUN
	2.0 AMPS START
AUXILIARY CONTACTS	1A AMP 250 VOLTS AC

* RF CONNECTOR SUPPLIED AT ANY MATING COAXIAL TRANSMISSION LINE CONNECTION TO BE SPECIFIED WITH ORDER.

2H069
RADIO CORPORATION OF AMERICA CAMDEN, NEW JERSEY 8001781-4

Figure 18. R-F Transfer Switch (3-1/8") MI-561562 Outline (8001781)

Coaxial Coupler (Crossover Type)



Broadcast Band	Frequency	MI Number	A	Unbalance
Ch. 2 thru 6	54-88 MHz	MI-561536	[illegible]	± 0.36 db
[illegible]	[illegible]-100 MHz	MI 561537	29.32	± 0.15 db

Specifications

Weight:	(approx) 12 lbs.
Mounting:	any position
Ambient Temperature:	+55° max to - 20° C min
Max Power:	10 [illegible] per port
VSWR:	1.[illegible] or better when terminated in matched loads.
Connections:	1 5/[illegible] unflanged coaxial line(MI 19112)
Impedance:	51.[illegible] ohm
Isolation:	see table

	Input Port	Output Port	Reject Port	Requirements for 30 db isolation or better
If used as power splitter	A	C,D	B	Output loads 1.[illegible] or better
If used as power combiner	A,B	C or D	D or C	2 input signals 90° out of phase (equal frequency and amplitude)

2H064
8001400-1

[illegible] Radio Corporation of America, Camden, N. J.

Figure 19. 3dB Hybrid Coupler MI-561536-A Outline (8001400)

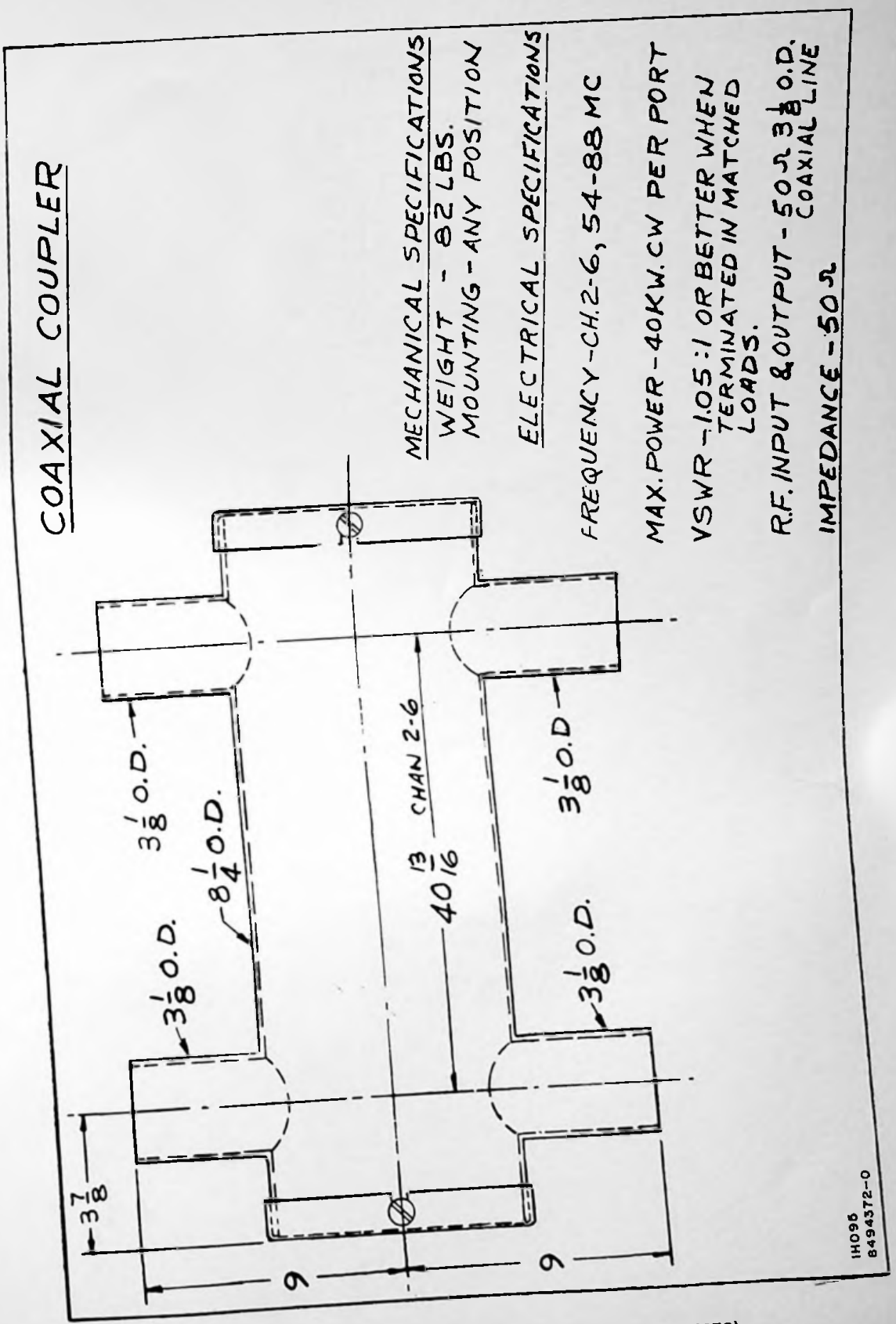
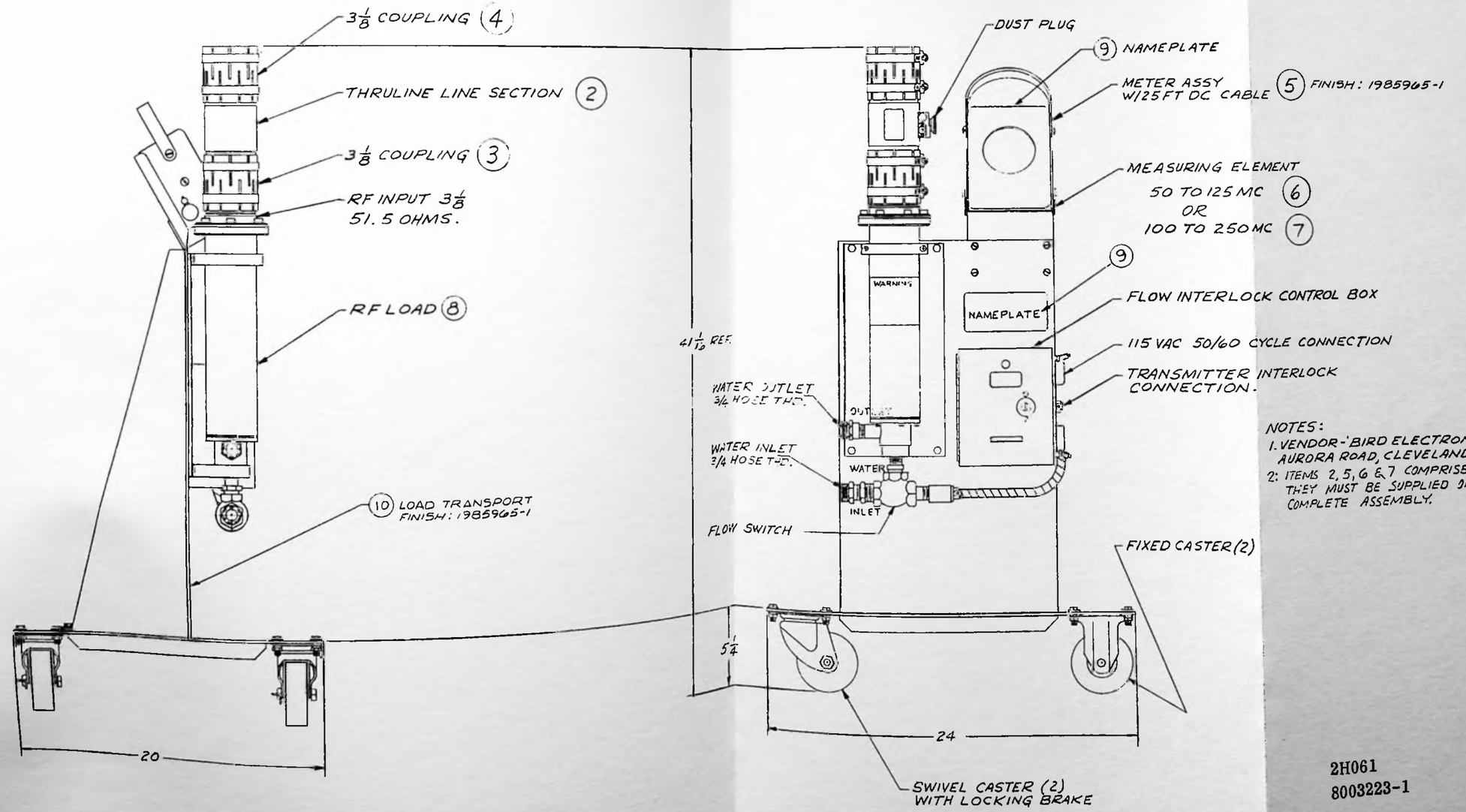


Figure 20. 3dB Hybrid Coupler MI-561532 Outline (8494372)

GROUP NO. | FIRST ASSY FOR

LIST OF PARTS

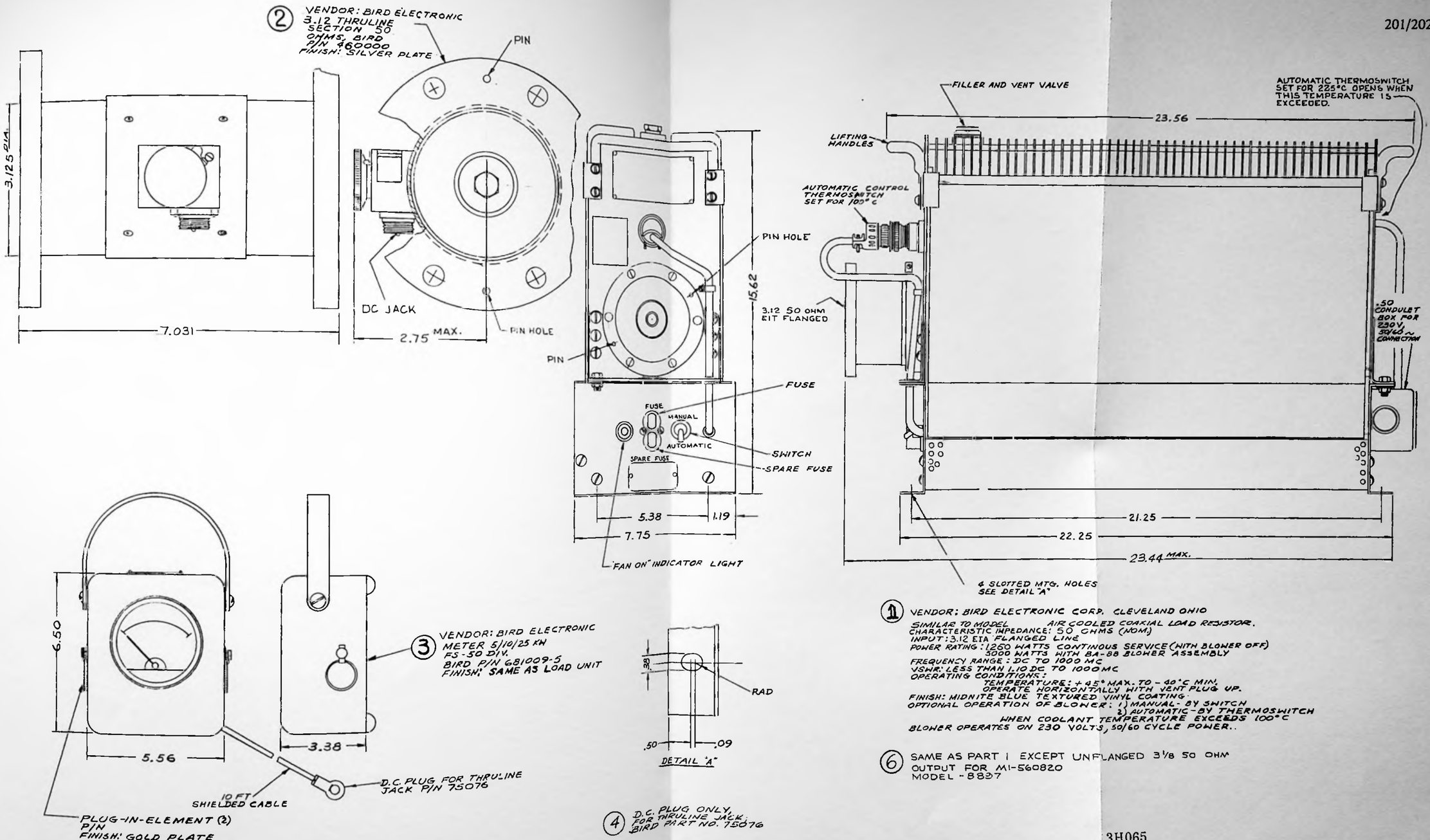
QUANTITY		ITEM OR SYMBOL	REFERENCE: DRAWING OR SPECIFICATION	REFERENCE: FIGURE OR GROUP	DESCRIPTION
	X	1			ASSEMBLY
	1	2	THIS DWG	2	THRU-LINE SECTION (SEE NOTE 2)
	1	3	THIS DWG	3	COUPLING-MI-19113-C8
	1	4	THIS DWG	4	COUPLING-MI-27791-K4D
	1	5	THIS DWG	5	METER ASSEMBLY (SEE NOTE 2)
	1	6	THIS DWG	6	WATTMETER ELEMENT (SEE NOTE 2)
	1	7	THIS DWG	7	WATTMETER ELEMENT (SEE NOTE 2)
	1	8	8002242	1	RF LOAD RESISTOR
	2	9	8000605	1	NAMEPLATE
	1	10	THIS DWG	10	LOAD TRANSPORT



NOTES:
1. VENDOR - BIRD ELECTRONIC CORP., 30303 AURORA ROAD, CLEVELAND, OHIO. 44139.
2: ITEMS 2, 5, 6 & 7 COMPRISE THE R.F. WATTMETER. THEY MUST BE SUPPLIED OR REPAIRED AS A COMPLETE ASSEMBLY.

2H061
8003223-1

Figure 21. R-F Load and Wattmeter MI-19267-L Outline (8003223)



3H065
3471760-5

Figure 22. R-F Load and Wattmeter MI-560820 Outline (3471760)

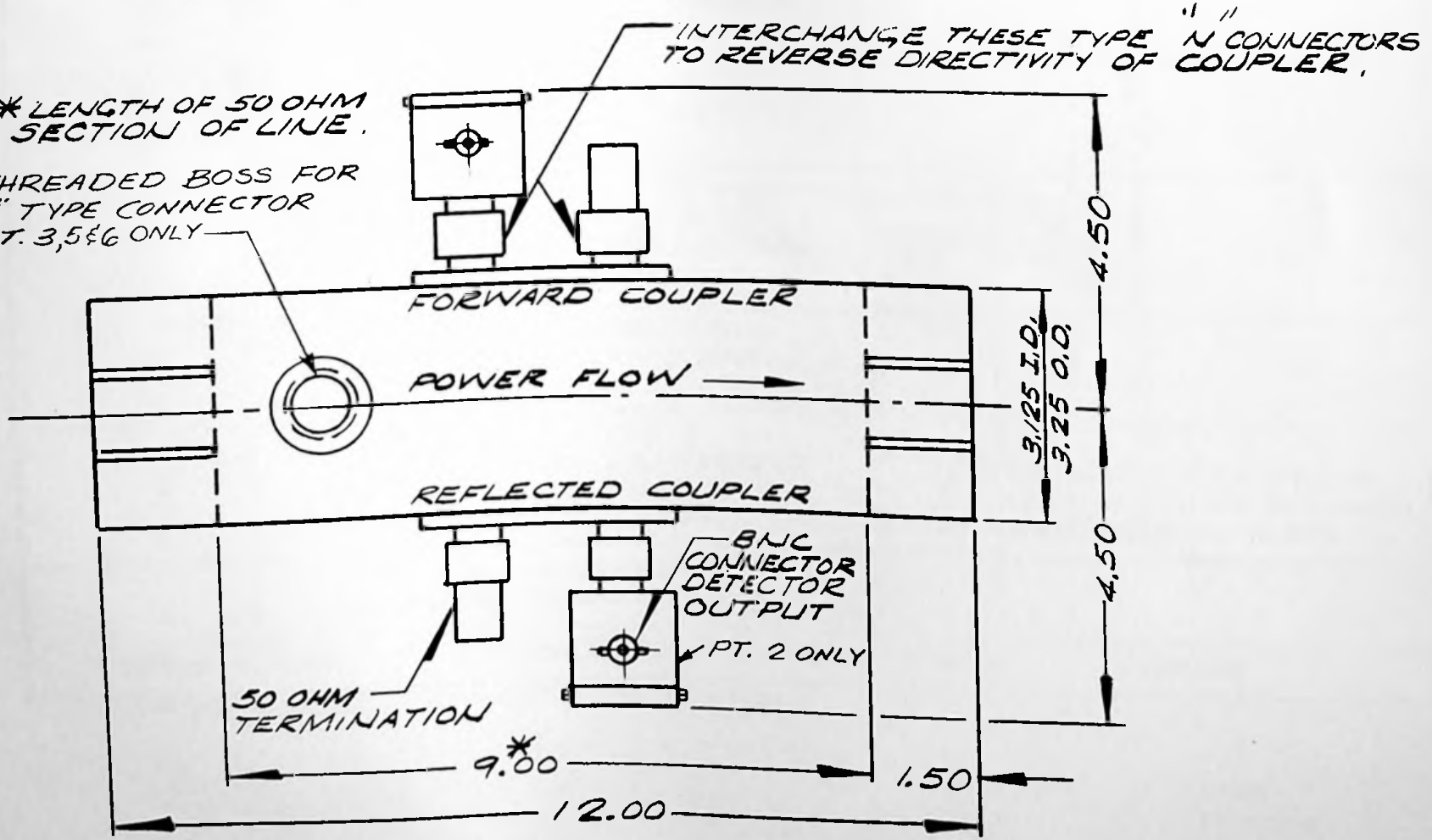


Figure 23. Reflectometer (3-1/8") Outline – 3720405 (Sheet 1 of 2)

2H059
3720405-4

PT. NO.	DESCRIPTION	REMARKS
1	REFLECTOMETER UNIT 3 1/8 INCH, 50 OHM LINE.	
2	REFLECTOMETER UNIT SAME AS PT. 1, BUT WITH SEPARATE DETECTED OUTPUTS ON THE REFLECTED COUPLER DETECTOR UNIT.	SIZE OF REFLECTED DETECTOR UNIT IS $1\frac{1}{2}$ X 3 X $1\frac{1}{2}$ IN. AND SIZE OF FORWARD DETECTOR UNIT IS $1\frac{1}{2}$ X $1\frac{1}{2}$ X $1\frac{1}{2}$ INCHES.
3	REFLECTOMETER UNIT SAME AS PT. 1, BUT WITH A THREADED BOSS FOR MONITORING PURPOSES.	
4	REFLECTOMETER UNIT SAME AS PT. 2, BUT WITH A LOW PASS FILTER INCORPORATED IN THE DUAL HEAD DETECTOR BOX.	
5	REFLECTOMETER UNIT SAME AS PT. 4, BUT WITH A THREADED BOSS FOR MONITORING PURPOSES.	
6	REFLECTOMETER UNIT SAME AS PT. 2, BUT WITH A THREADED BOSS FOR MONITORING PURPOSES.	

Figure 23. Reflectometer (3-1/8") Outline – 3720405 (Sheet 2 of 2)

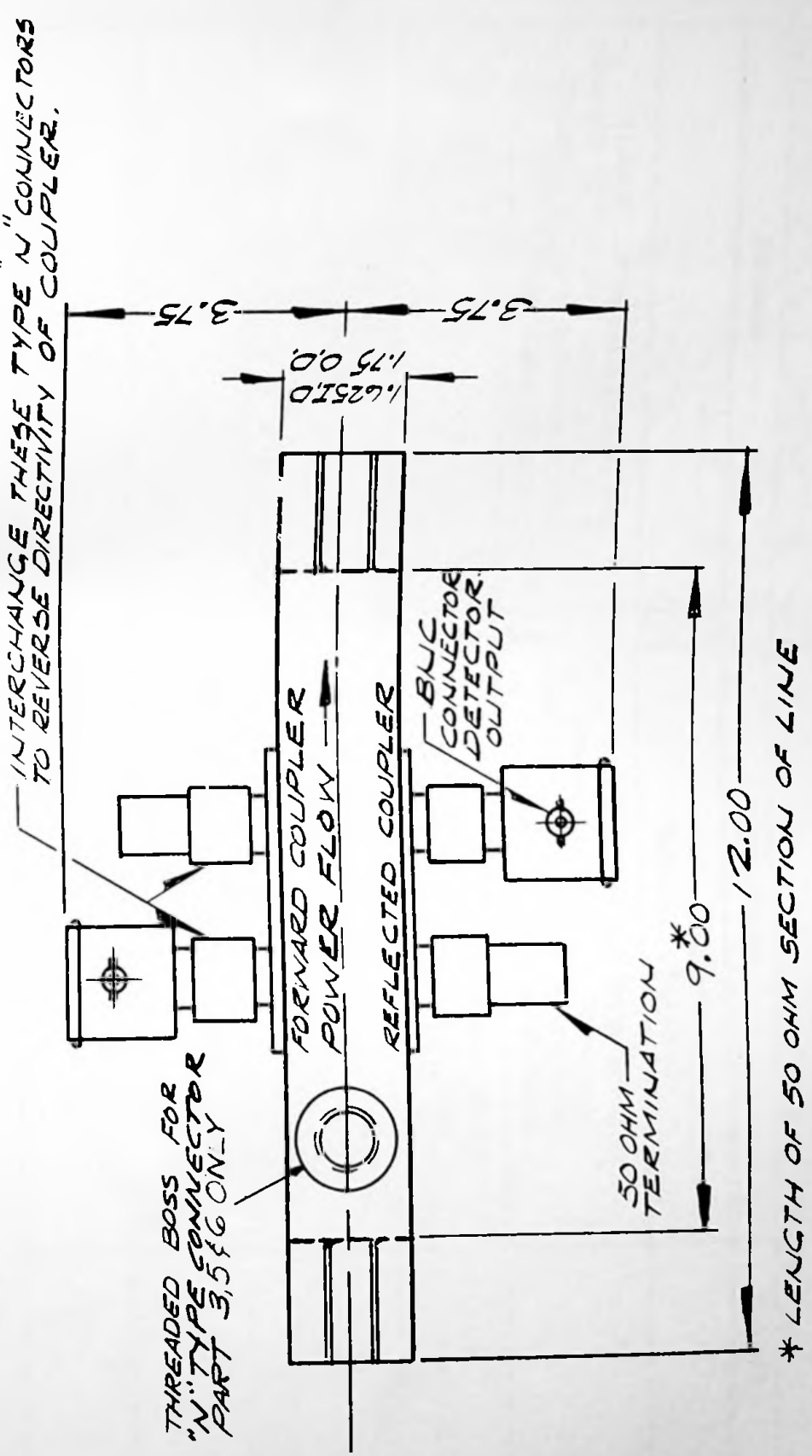
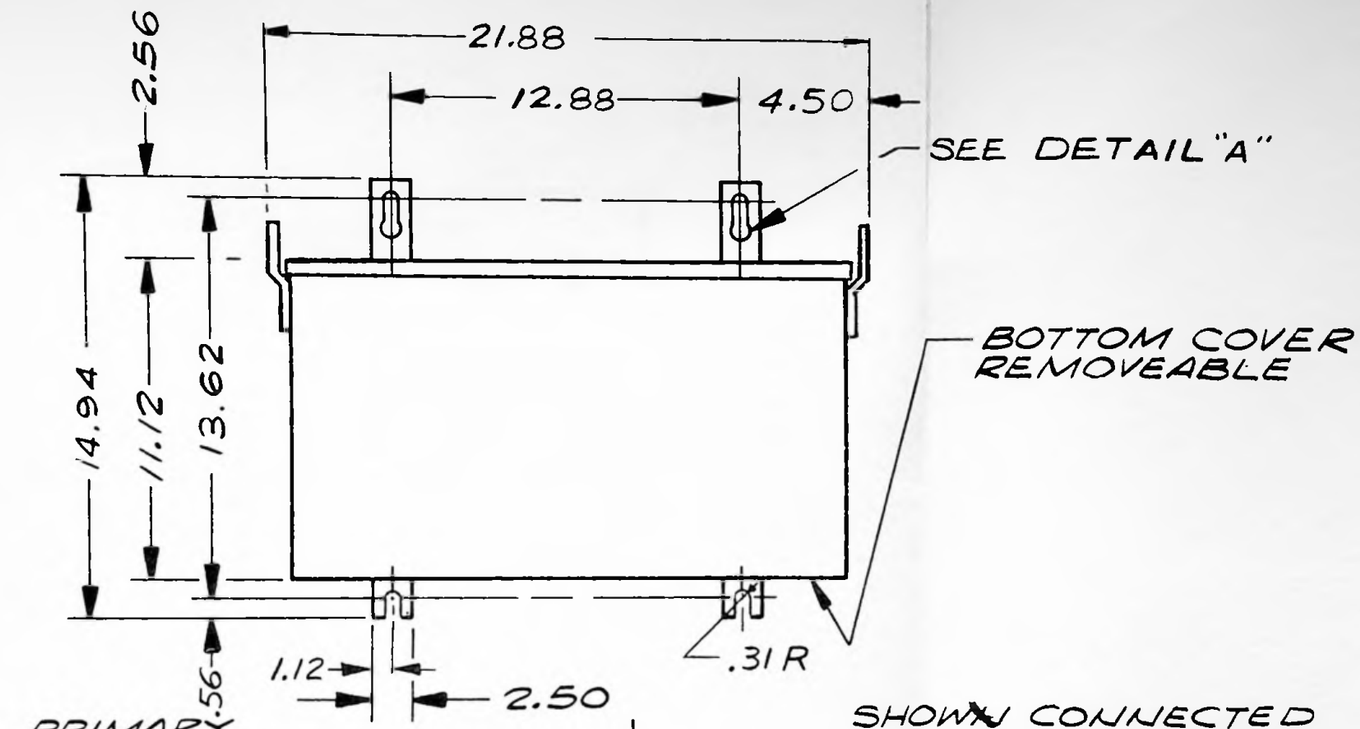
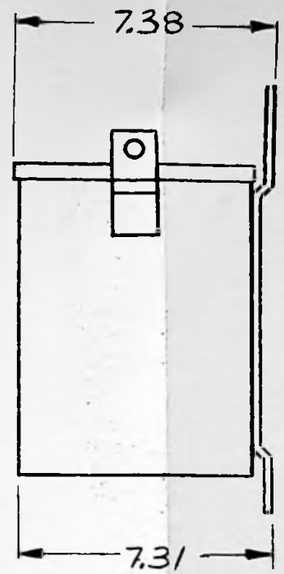


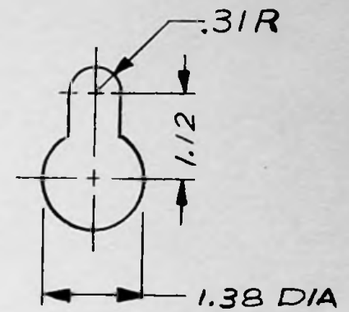
Figure 24. Reflectometer (1-5/8") Outline – 3720402 (Sheet 1 of 2)

PT. NO.	DESCRIPTION	REMARKS
1	REFLECTOMETER UNIT 1 5/8 INCH, 50 OHM LINE	
2	REFLECTOMETER UNIT SAME AS PT. 1, BUT WITH SEPARATE DETECTED OUTPUTS ON THE REFLECTED COUPLER DETECTOR UNIT.	SIZE OF REFLECTED DETECTOR UNIT IS $1\frac{1}{2}$ X 3 X $1\frac{1}{2}$ IN. AND SIZE OF FORWARD DETECTOR UNIT IS $1\frac{1}{2}$ X $1\frac{1}{2}$ X $1\frac{1}{2}$ INCHES.
3	REFLECTOMETER UNIT SAME AS PT. 1, BUT WITH A THREADED BOSS FOR MONITORING PURPOSES.	
4	REFLECTOMETER UNIT SAME AS PT. 2, BUT WITH A LOW PASS FILTER INCORPORATED IN THE DUAL HEAD DETECTOR BOX.	
5	REFLECTOMETER UNIT SAME AS PT. 4, BUT WITH A THREADED BOSS FOR MONITORING PURPOSES.	
6	REFLECTOMETER UNIT SAME AS PT. 2, BUT WITH A THREADED BOSS FOR MONITORING PURPOSES.	

Figure 24. Reflectometer (1-5/8") Outline – 3720402 (Sheet 2 of 2)





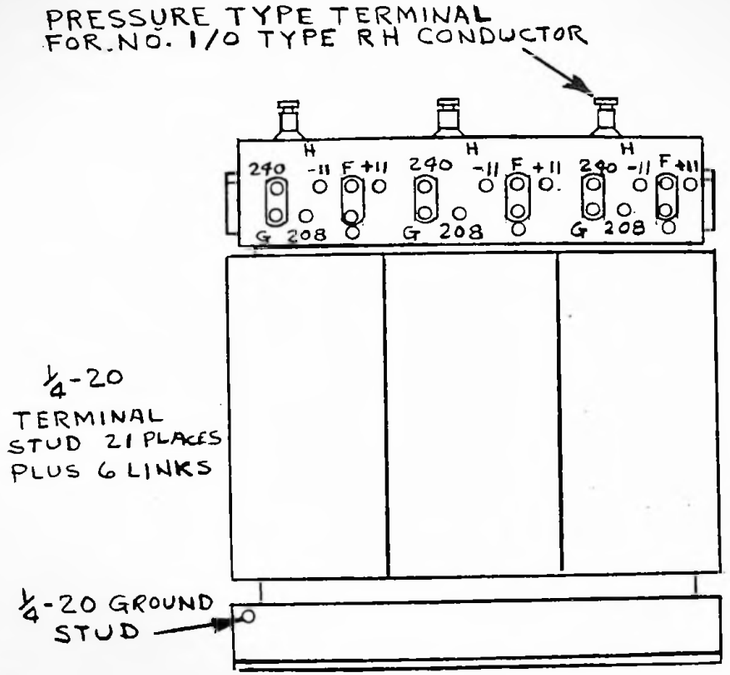


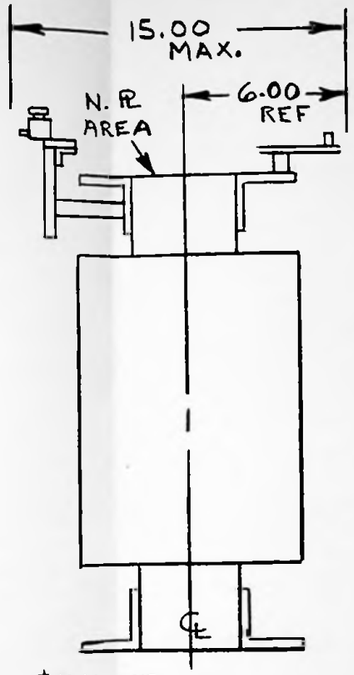
DETAIL "A"

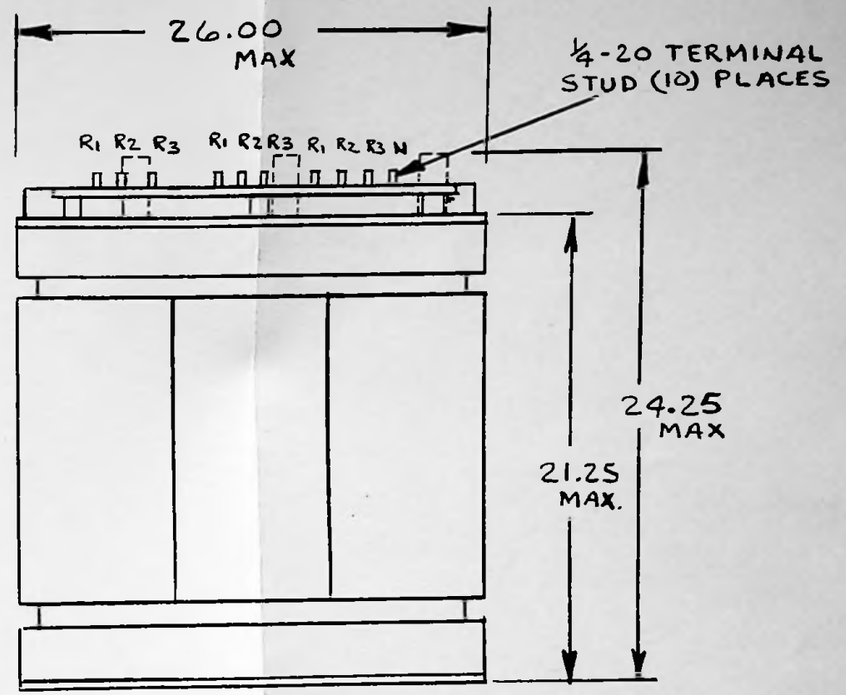
7.0 KVA 208/240V ±5% PRIMARY
230 V SECONDARY
3 PHASE 50/60 HZ CONTINUOUS DUTY
AT 50°C AMBIENT
WT APPROX 170 lbs

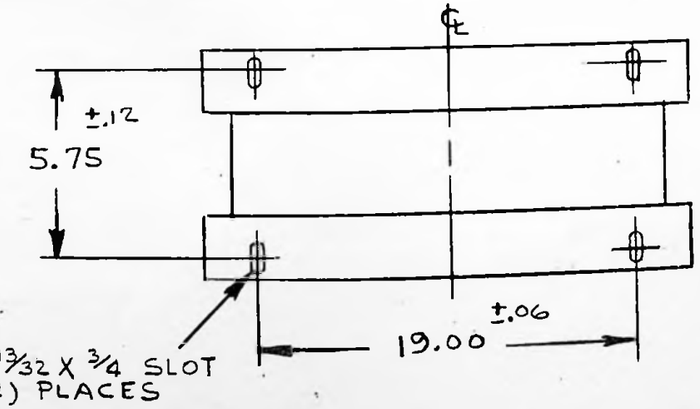
3H064
3732112-0

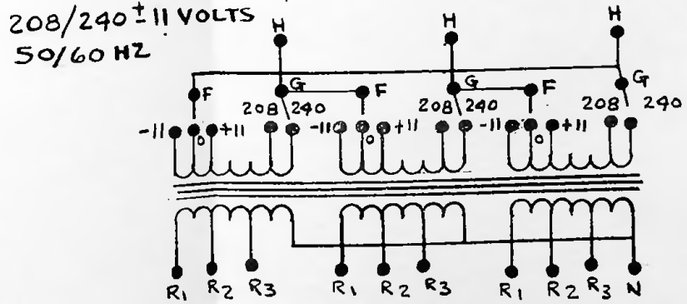
Figure 25. Distribution Transformer MI-560580 Outline (3732112)











R1-R1-R1 5000 Y/2880 AT 3.26 A RMS
R2-R2-R2 4620 Y/2660 AT 3.26 A RMS
R3-R3-R3 4150 Y/2404 AT 3.26 A RMS

EST. WT. 400 LBS.

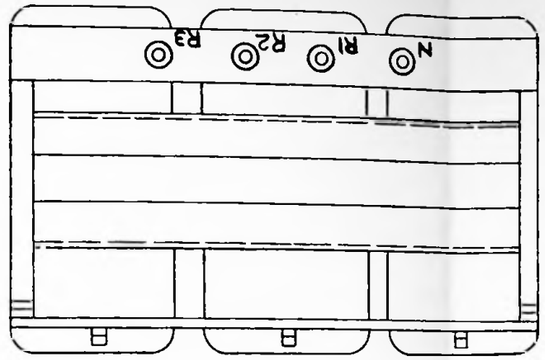
R1 R2 R3 R1 R2 R3 R1 R2 R3 N
O O O O O O O O O O

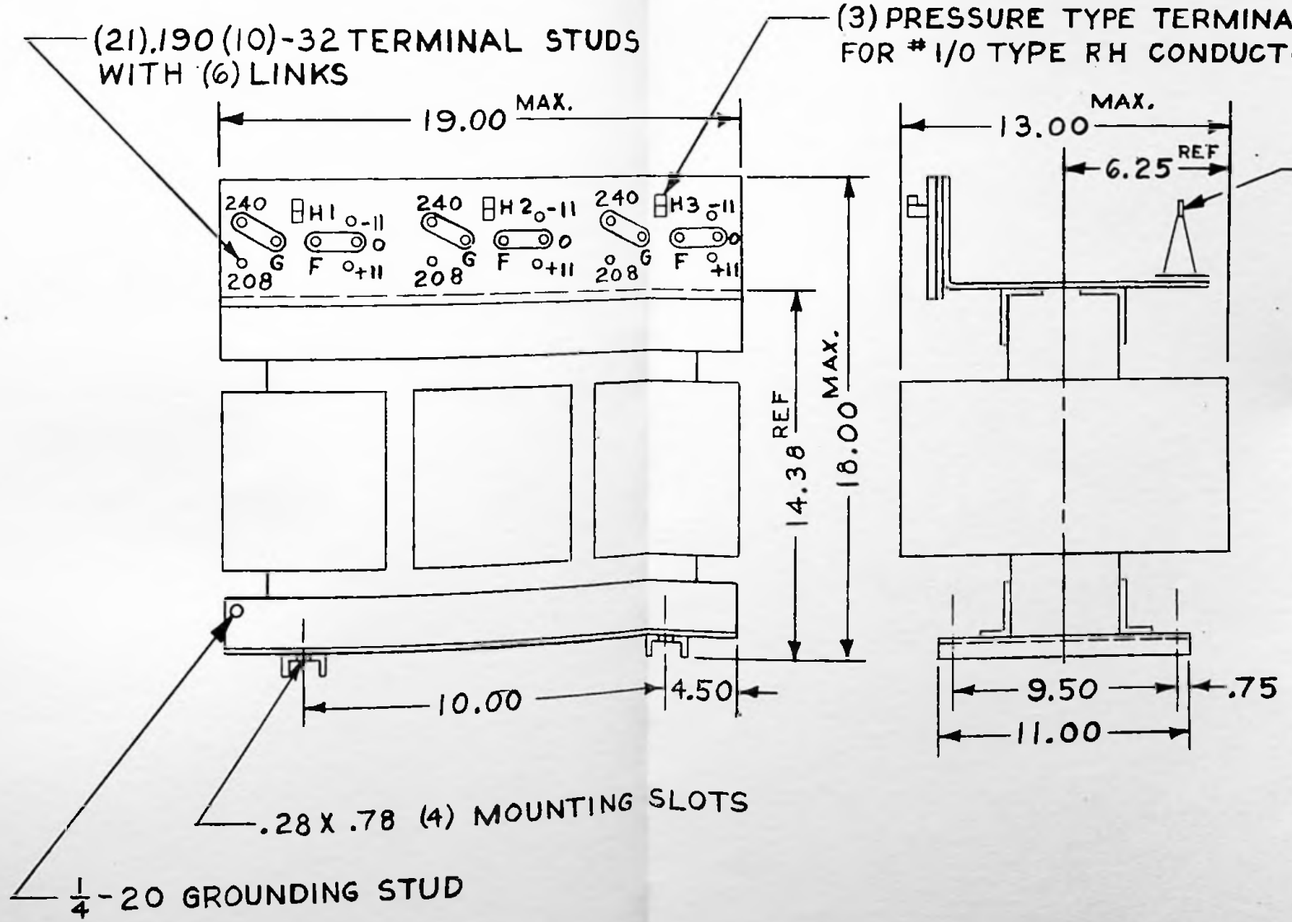
SEC. BD.
MARKING

PRIMARY CONNECTION	
VOLTS	CONNECT EACH PHASE
197	-11 TO F, 208 TO G
208	0 TO F, 208 TO G
219	+11 TO F, 208 TO G
229	-11 TO F, 240 TO G
240	0 TO F, 240 TO G
251	+11 TO F, 240 TO G

3H061
3732110-0

Figure 26. High Voltage Transformer MI-560581 Outline (3732110)

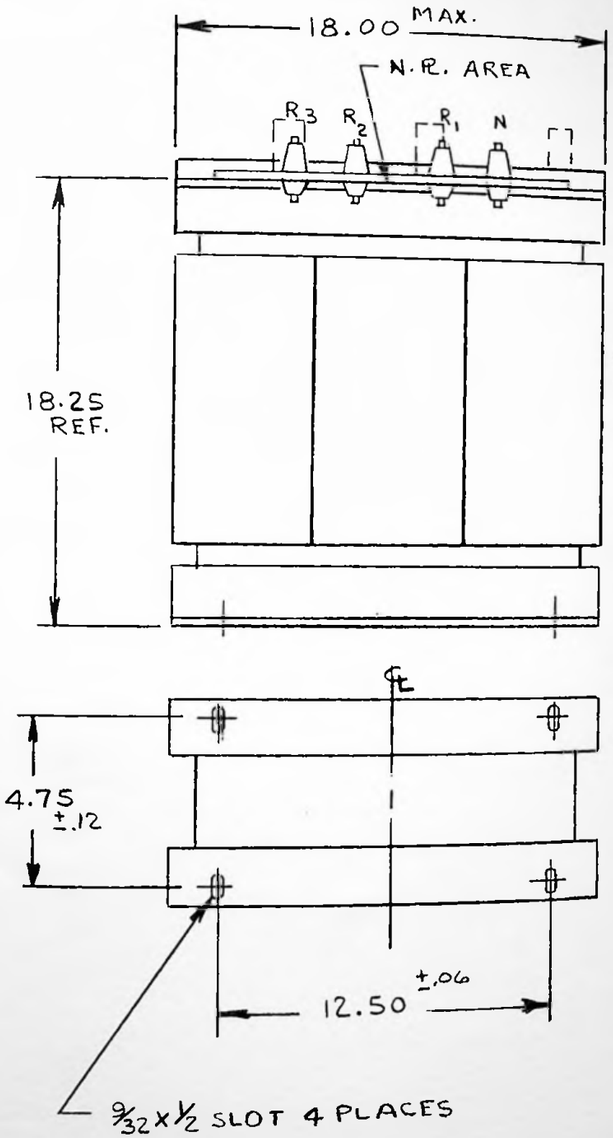


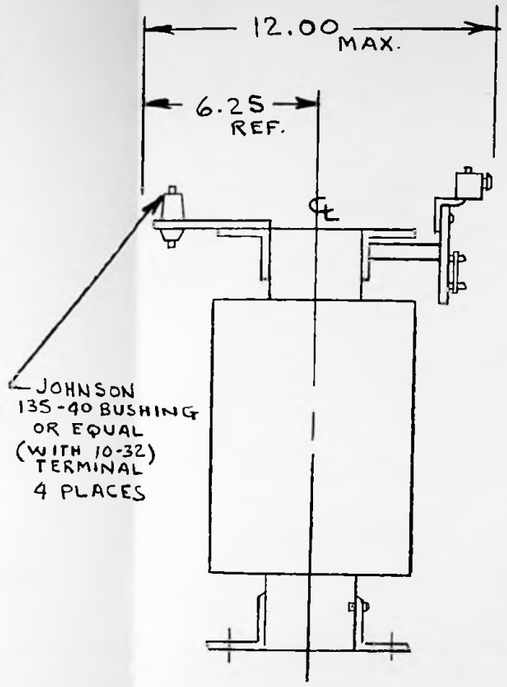


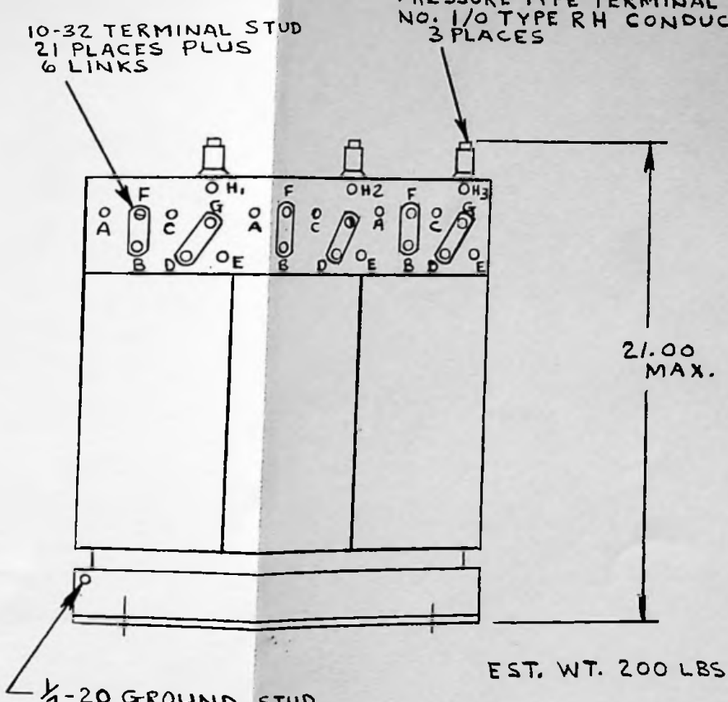
WEIGHT: 275 #

3H063
3732108-0

Figure 27. High Voltage Transformer MI-560581-A Outline (3732108)

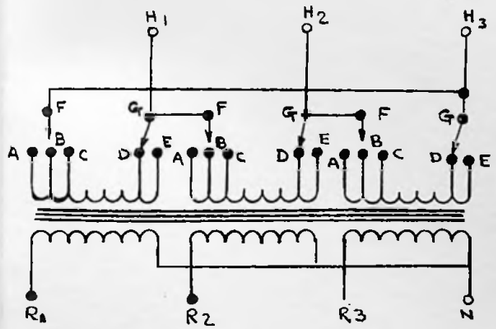






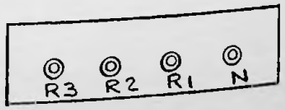
EST. WT. 200 LBS.

208/240 VOLT ±5%
50/60 HZ



3070 Y / 1780
2.38 A RMS

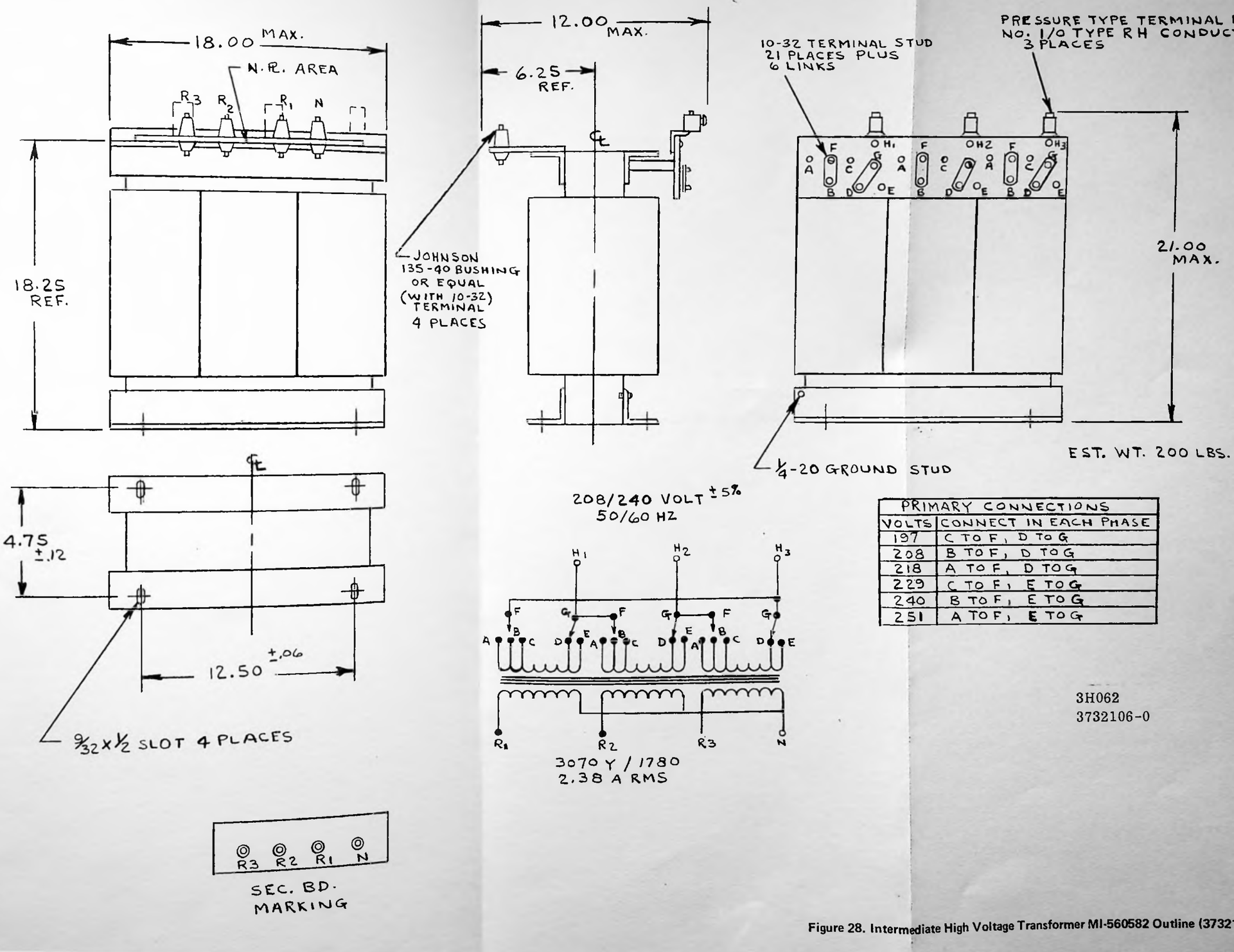
PRIMARY CONNECTIONS	
VOLTS	CONNECT IN EACH PHASE
197	C TO F, D TO G
208	B TO F, D TO G
218	A TO F, D TO G
229	C TO F, E TO G
240	B TO F, E TO G
251	A TO F, E TO G



SEC. BD. MARKING

3H062
3732106-0

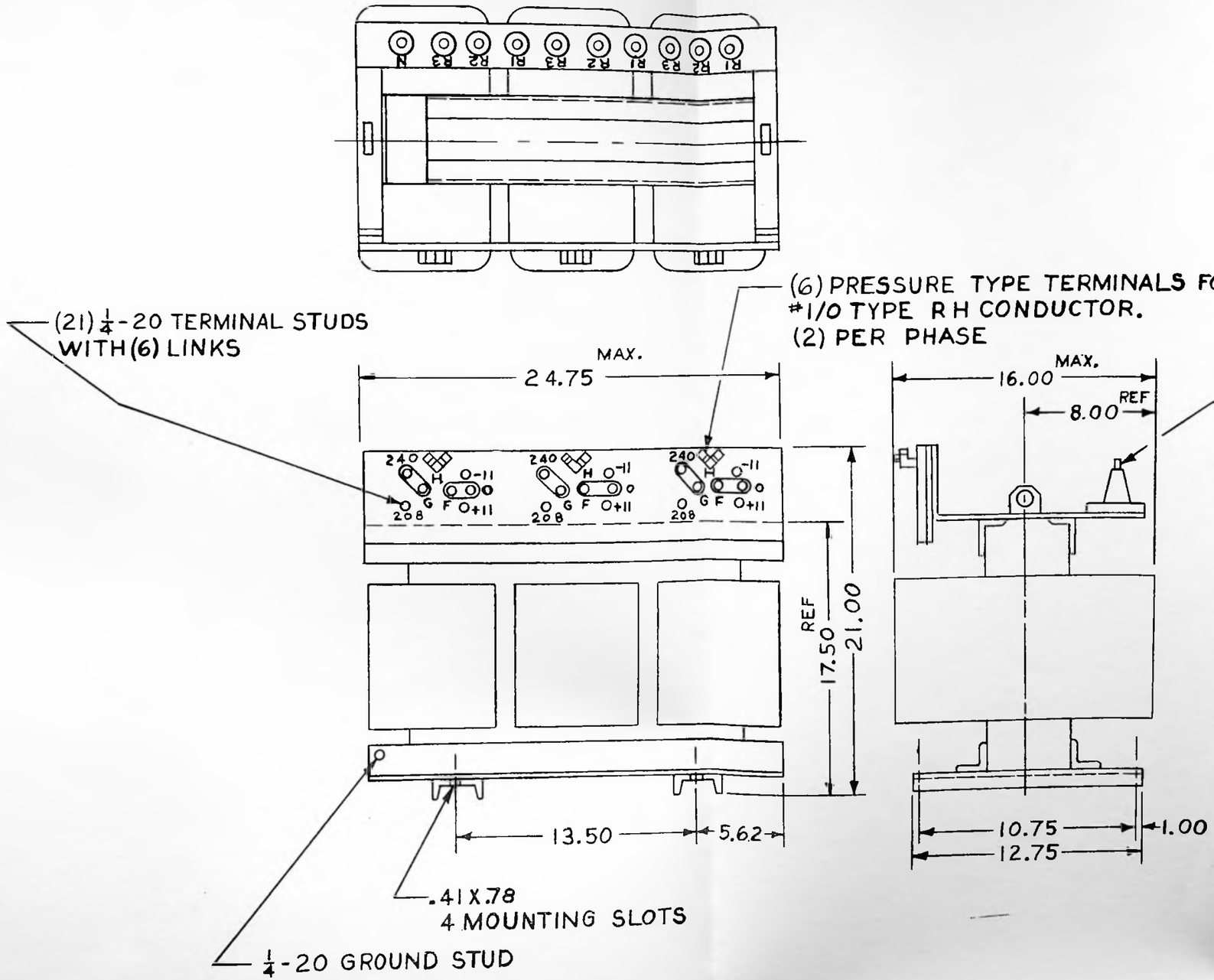
Figure 28. Intermediate High Voltage Transformer MI-560582 Outline (3732106)



PRIMARY CONNECTIONS	
VOLTS	CONNECT IN EACH PHASE
197	C TO F, D TO G
208	B TO F, D TO G
218	A TO F, D TO G
229	C TO F, E TO G
240	B TO F, E TO G
251	A TO F, E TO G

3H062
3732106-0

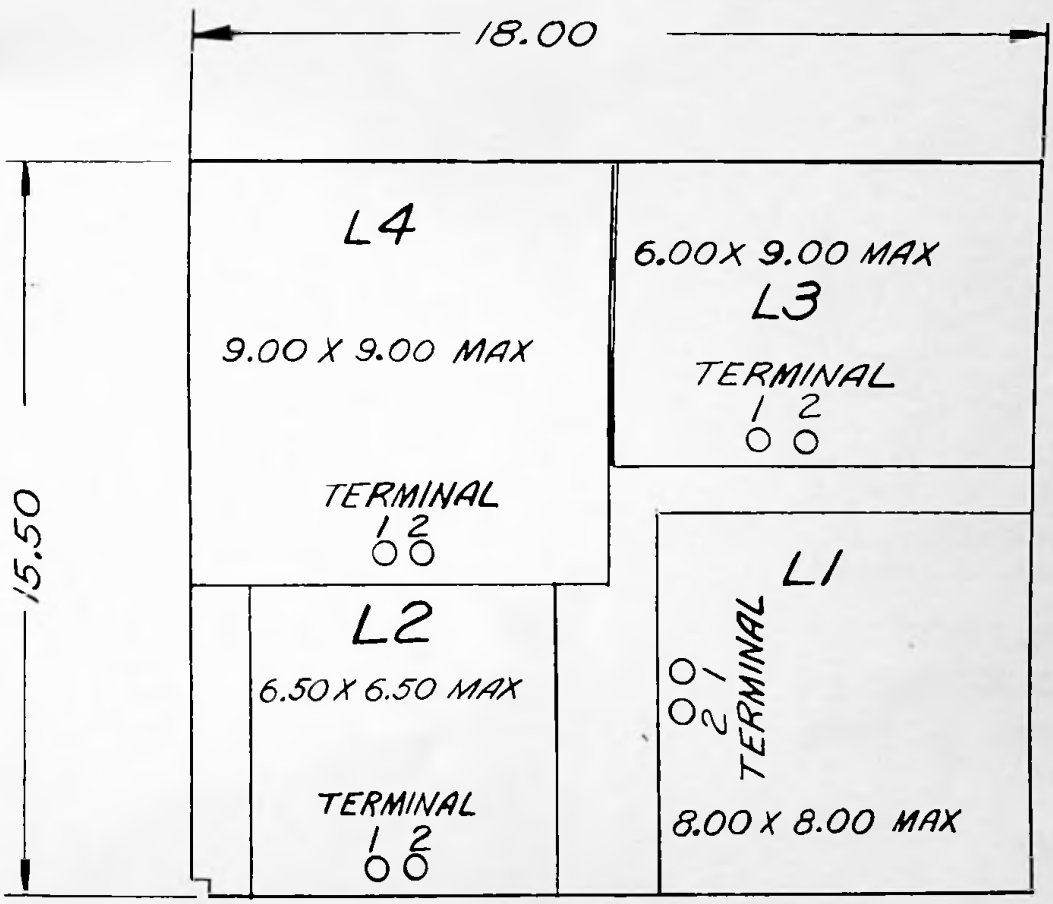
Figure 28. Intermediate High Voltage Transformer MI-560582 Outline (3732106)



WEIGHT: 545#

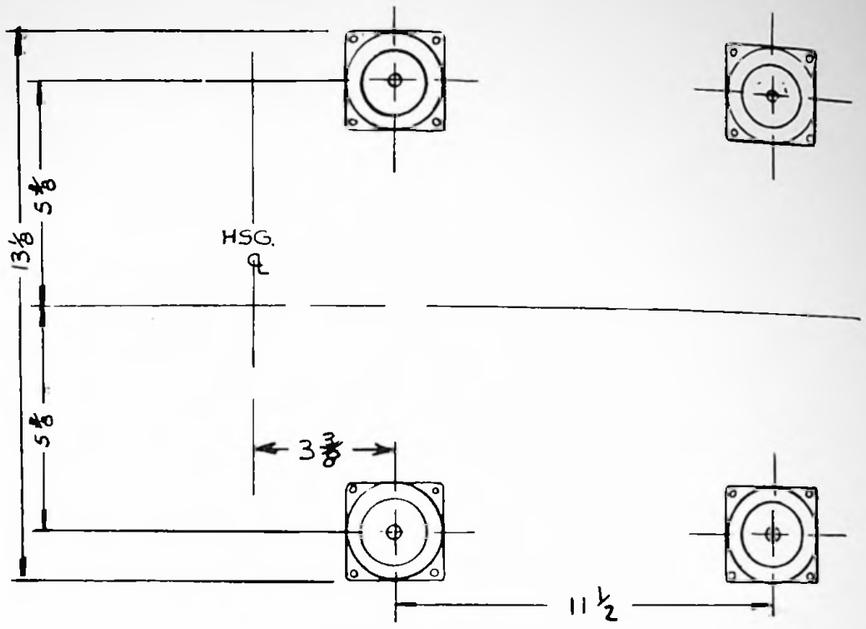
3H060
3732109-0

Figure 29. Intermediate High Voltage Transformer MI-560582-A Outline (3732109)

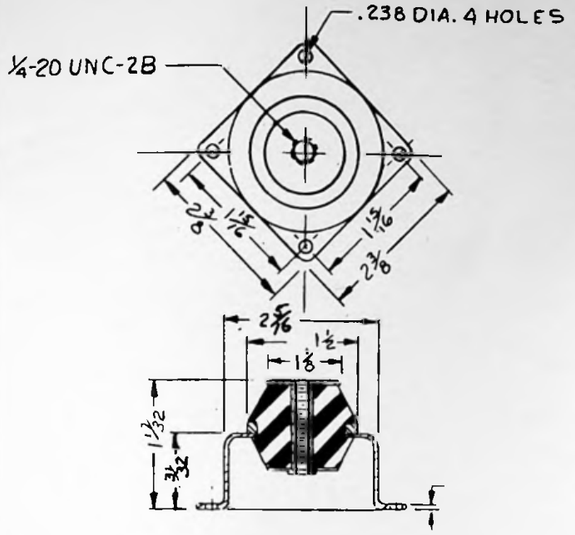


2H058
3721132-0

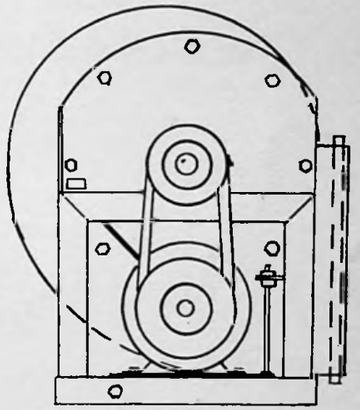
Figure 30. Reactor Assembly MI-560583 Outline (3721132)



PLAN VIEW

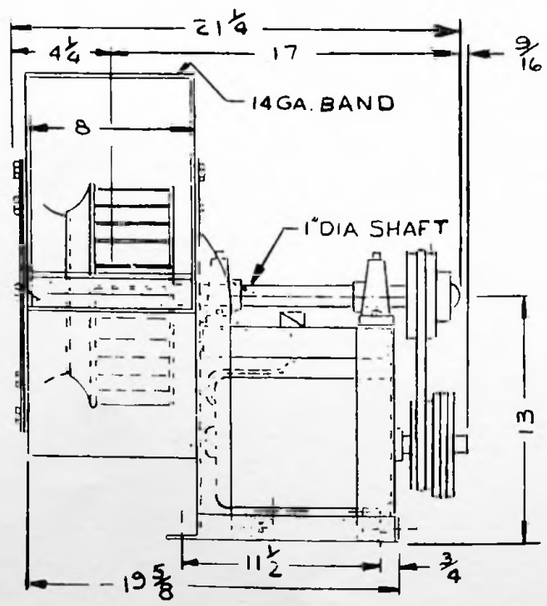


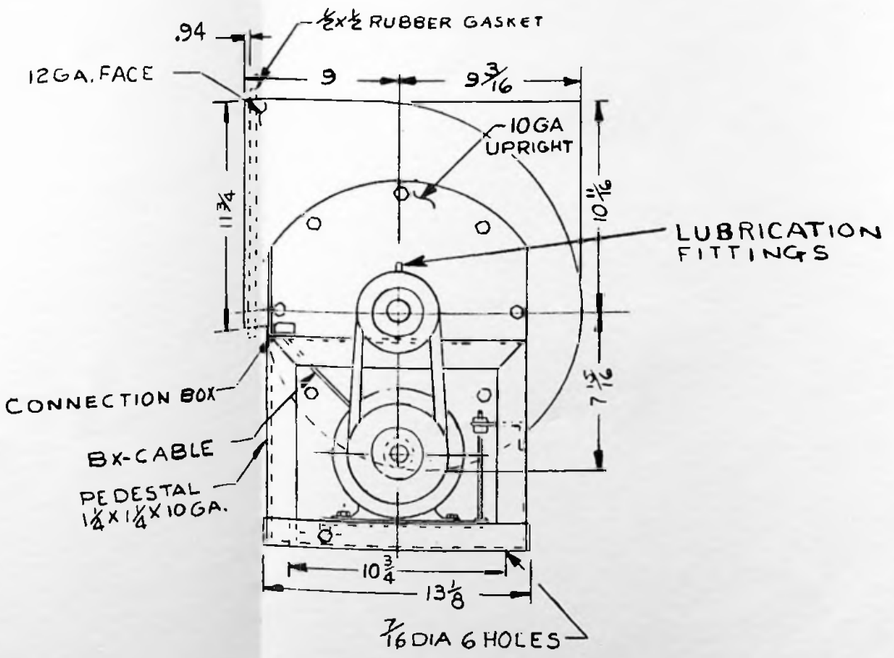
VIBRATION ISOLATOR



MI-560579-B
AS SHOWN OTHERWISE
SAME AS MI-560579-A

3H059
3732104-0





MI-560579-A

Figure 31. Blower Unit MI-560579-A/B Outline (3732104)

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