



Wescom TL40XX Mounting Assemblies For Network Terminating Equipment

Typesetting: Disk D-8 SC/NS

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1. GENERAL

1.01 This Practice provides general product information and installation instructions for Wescom® TL40XX Mounting Assemblies for Network Terminating Equipment (NTE).

1.02 The TL40XX Mounting Assemblies are pre-wired, connectorized apparatus cases, cabinets, and mounting shelves which accept 7305-XX-series, 400-type NTE Modules. TL40XX Mounting Assemblies are available in a variety of configurations for wall, rack or floor mounting. Table 1 shows the circuit capacity,

Table 1. TL40XX Mounting Assemblies

ORDER CODE	RING GEN MTG (8505-00)	NUMBER OF CKTS	MOUNTING PART NO. & TYPE	-48VDC POWER SUPPLY (INCLUDED)	CIRCUIT FUSING (INCLUDED)	WEIGHT* (POUNDS)
TL4001	1	2	TL0001 Wall (12D)	8410-48	None	4
TL4002	1	4	TL0002 Wall (14A-01)	8548-00**	None	19
TL4003	1	6	TL0003 Wall (14A-01)	None	None	15
TL4004	1	8	TL0004 Wall (15A)	8548-00**	4285-00	27
TL4005	1	12	TL0005 Wall (16C)	8548-00**	4285-00	52
TL4006	1	12	TL0006 Wall (15A)	None	None	24
TL4007	2	22	TL0007 Wall (16C)	2-8548-00**	(2) 4285-00	68
TL4008	2	24	TL0008 Wall (16C)	None	(2) 4285-00	58
TL4009	4	48	TL0009 Cabinet (6A)	8422-00	8481-01	225
TL4010	4	48	TL0010 Cabinet (6A)	None	8481-01	183
TL4011	None	6	TL0011 Shelf KTU (400-6)	None	None	5
TL4012	None	12	TL0012 Shelf 23" (400-12)	None	None	9
TL4013	None	12	TL0013 Shelf 23" (400-13)	None	4285-00	10
TL4014	7	84	TL0014 Cabinet (6AW)	8422-00	8481-01	300
TL4015	7	84	TL0015 Cabinet (6AW)	None	8481-01	258
TL4016	4	48	TL0016 Cabinet (6A)	8422-00	(4) 4285-00	225
TL4017	7	84	TL0017 Cabinet (6AW)	8422-00	(7) 4285-00	300
TL4018	None	11	TL0018 Shelf 19" (400-11)	None	None	8

*Without circuit modules.

** Early models may include equivalent 840 Power Supplies.

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powering provisions and other characteristics of each assembly. The ring generators and circuit modules must be ordered separately as needed.

1.03 Network terminating equipment provides an interface between the telephone company network and the customers Registered Terminal Equipment (RTE). Figure 1 shows this association. The TL40XX NTE Mounting Assemblies, when equipped with 7305-XX modules, will provide tie line and Off-Premise Station (OPS) network terminating services as described by Facility Interface Codes in Part 68 of the Federal Communications Commission (FCC) requirements; refer to Table 7. In addition, data termination circuits may be accommodated with the 7305-42 and 4112-11 Data Channel Interface modules.

2. MOUNTING SHELVES

2.01 Specific TL40XX Mounting Assemblies are available as shelves for rack or cabinet mounting. Each shelf assembly is a pre-wired, connectorized, 400-type mounting

assembly which provides a terminal block for connections to an external ring generator. Figure 2 shows four shelves (TL4011, TL4012, TL4013 and TL4018). The TL4013 is equipped with a 4285-00 Fuse Module.

3. STATION PACKAGES

3.01 TL40XX Mounting Assemblies are available as station packages for wall (apparatus case) or floor (cabinet) mounting. Each station package consists of an apparatus housing and a pre-wired mounting assembly to accommodate from two to 84 circuits. Figures 3 through 6 show wall mounted station packages. Floor mounted packages are shown in Figures 7 and 8.

3.02 Each station package also provides wiring and mounting for one 8505-00 Ring Generator Module per (up to) twelve circuits. The ring generator mountings are located on the rear of the shelf in 15A and 16C cases. (Locations for other cases are indicated in Figures 3, 5, 7, and 8.)

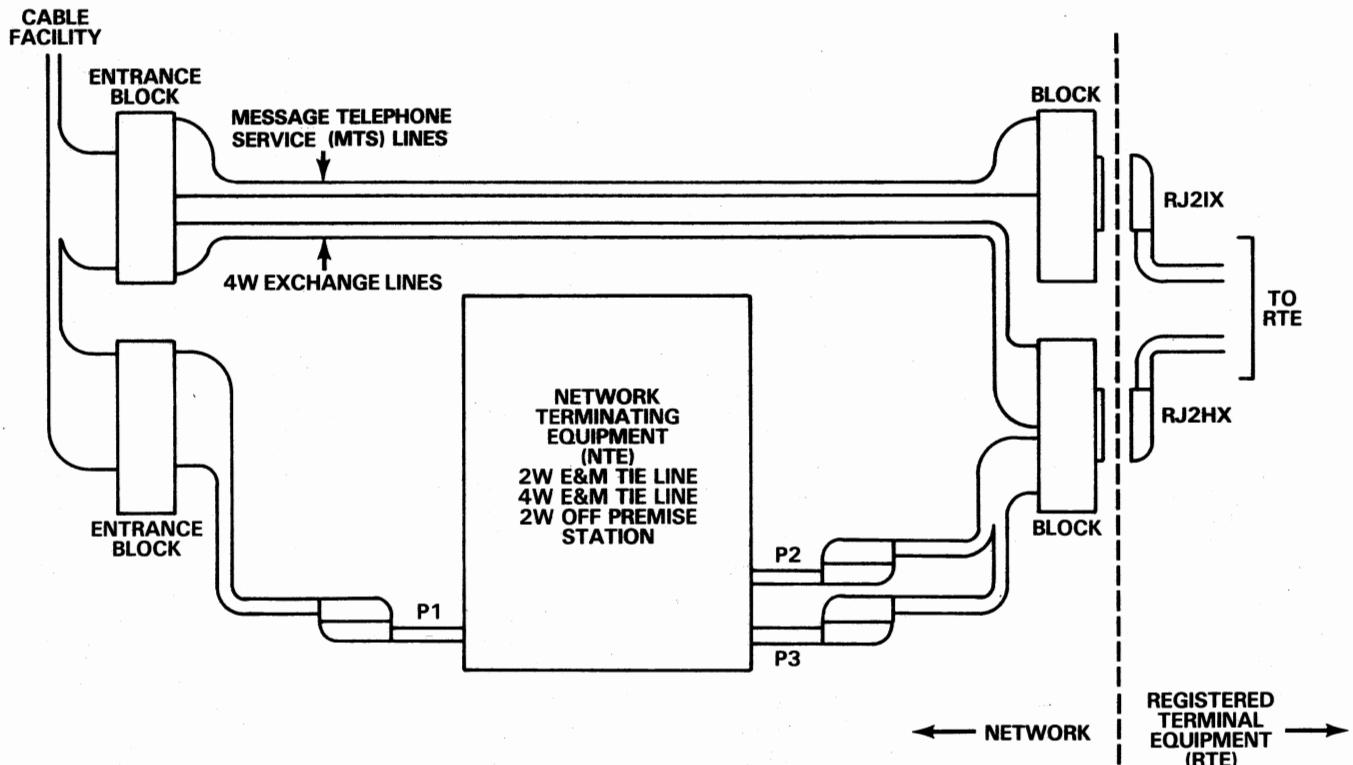
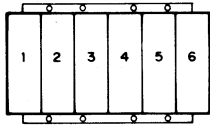
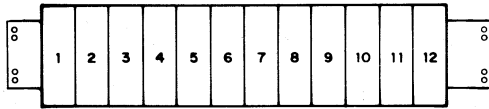


Figure 1. Typical Customer Premise Installation



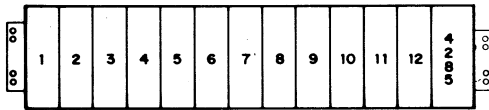
TL4011

2A. 400-6 SHELF WIRED FOR 6 CIRCUITS AND 2 25-PAIR CONNECTORS



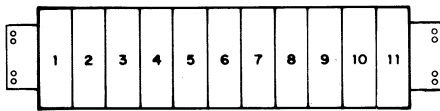
TL4012

2B. 400-12 SHELF WIRED FOR 12 CIRCUITS AND 3 25-PAIR CONNECTORS



TL4013

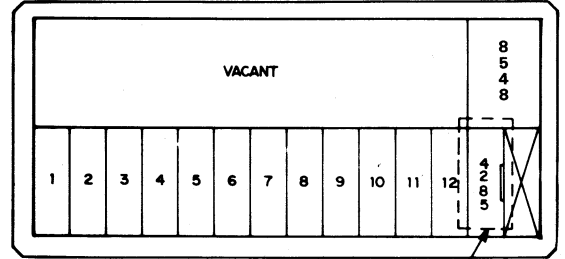
2C. 400-13 SHELF WIRED FOR 12 CIRCUITS AND 1 4285-00 FUSE MODULE, 3 25-PAIR CONNECTORS



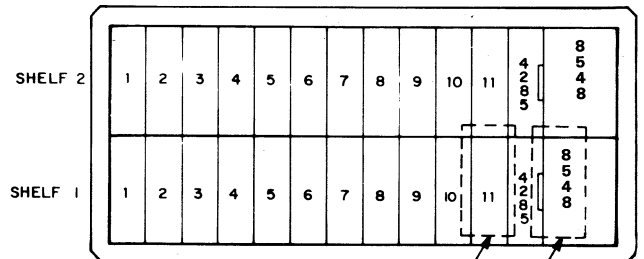
TL4018

2D. 400-11 SHELF WIRED FOR 11 CIRCUITS AND 3 25-PAIR CONNECTORS

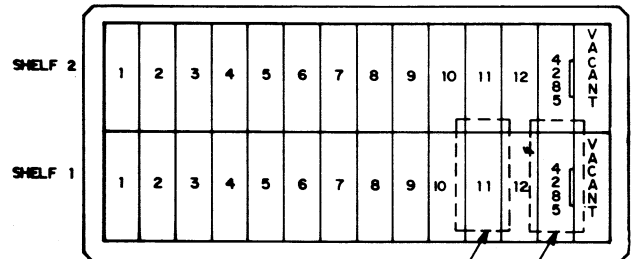
Figure 2. Mounting Shelves



TL4005

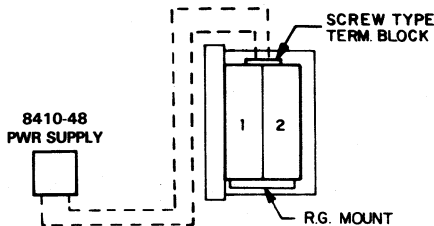


TL4007



TL4008

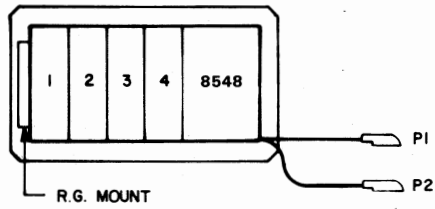
Figure 4. Station Packages With 16C Cases



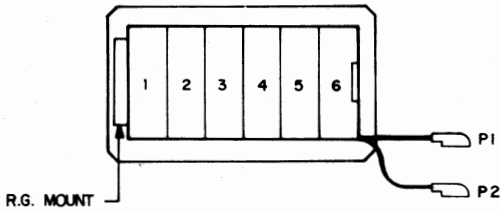
TL4001

Figure 3. Station Package With 12D Case

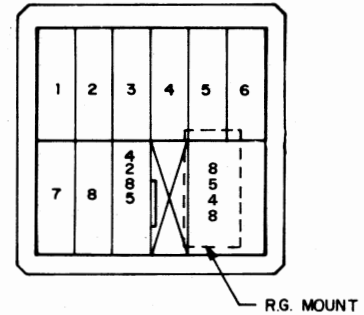
Section TL4-0XX-200



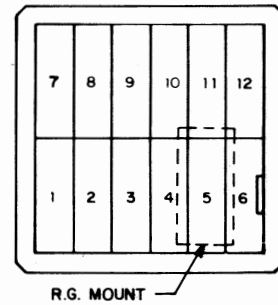
TL4002



TL4003



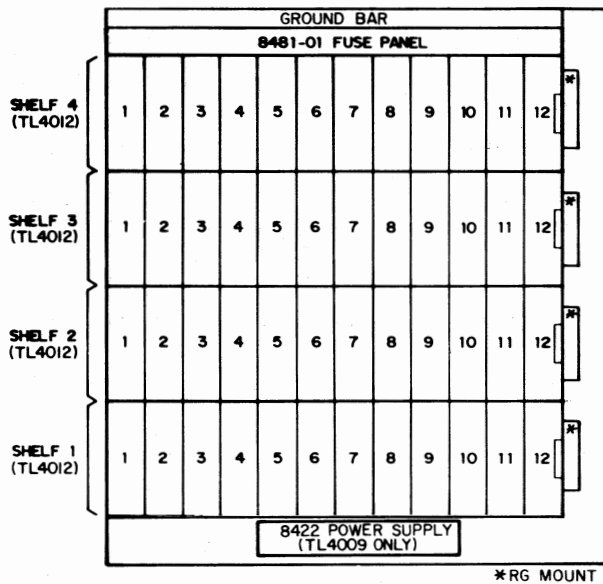
TL4004



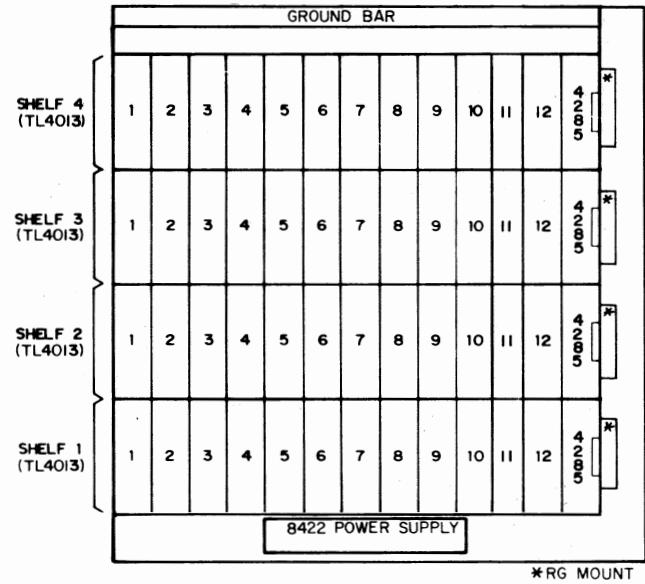
TL4006

Figure 5. Station Packages With 14A Cases

Figure 6. Station Packages With 15A Cases



TL4009 AND TL4010



TL4016

Figure 7. Station Packages With 6A Cabinets

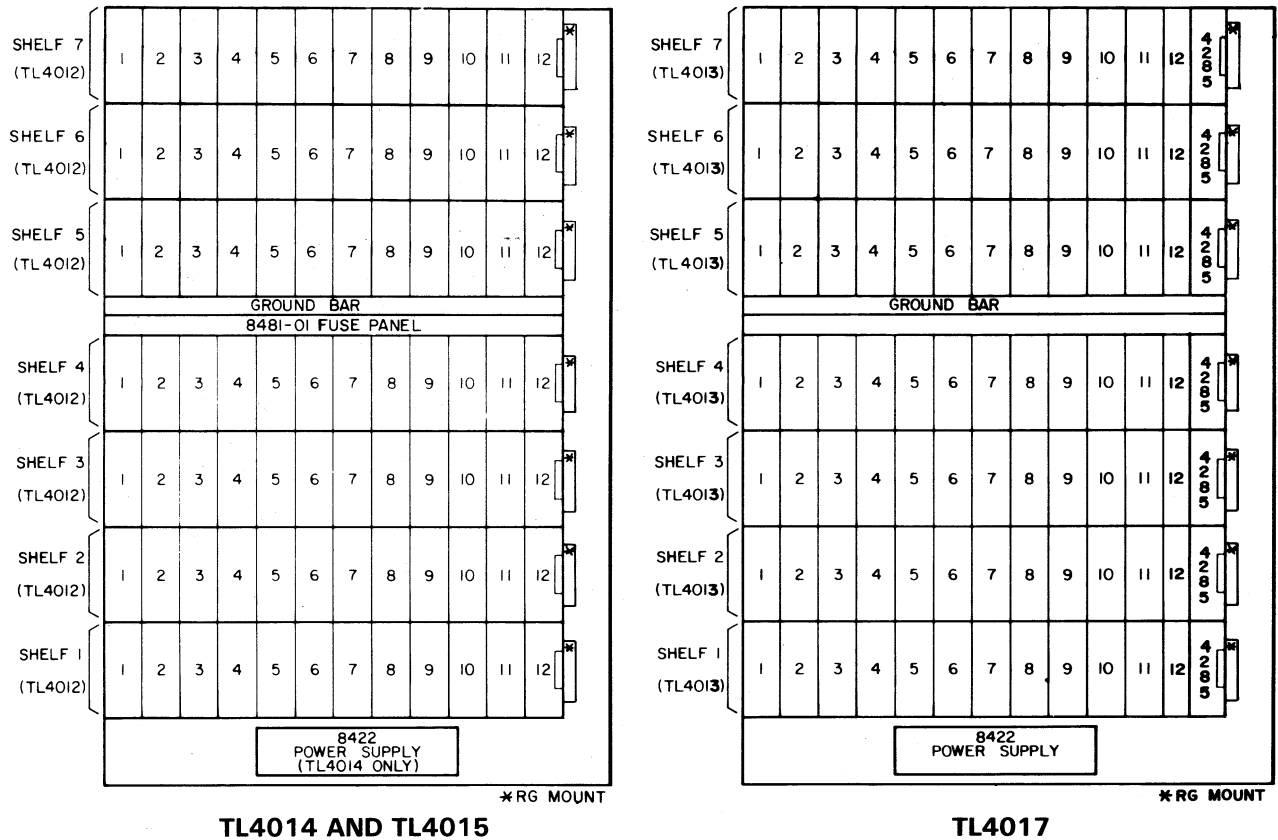


Figure 8. Station Packages With 6AW Cabinets

4. INSTALLATION

Mechanical

4.01 The TL40XX Mounting Assemblies are available as rack mount, wall mount or floor mount units. The weights for the mounting assemblies are provided in Table 1. Dimensions for the apparatus cases used in the wall mount station packages are given in Figure 9.

Electrical

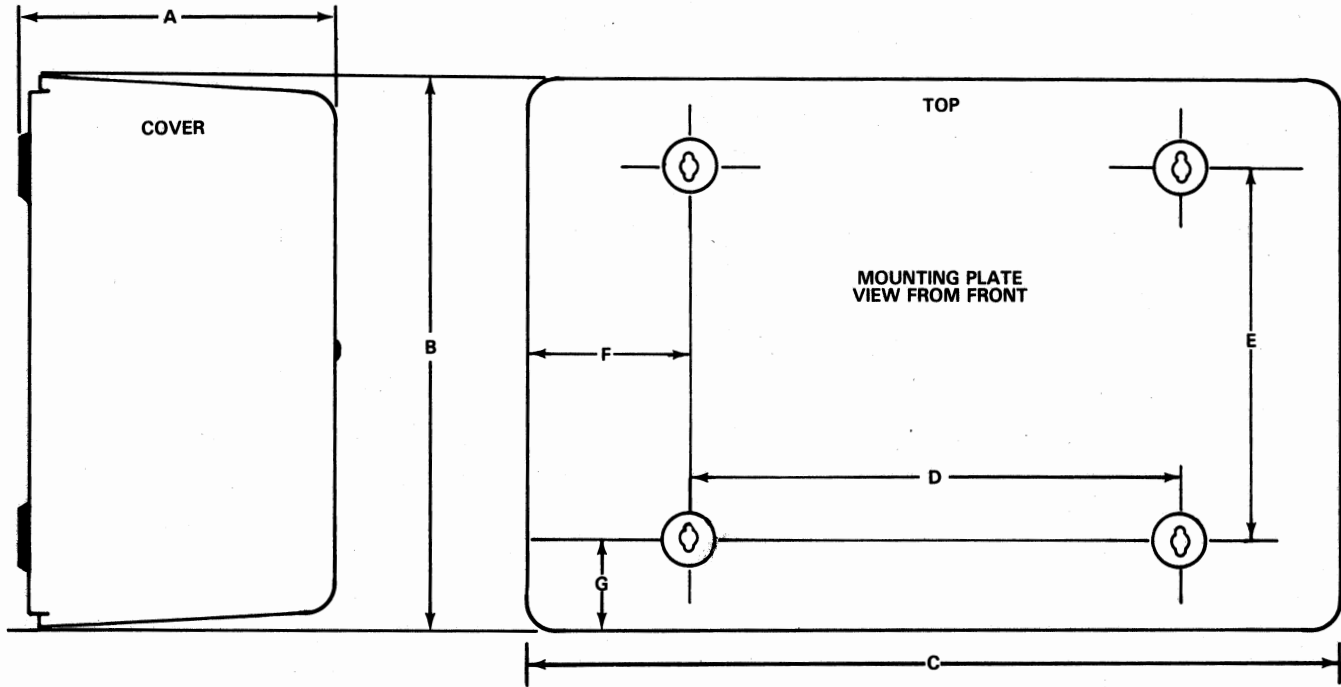
4.02 Battery, ground, and ring generator connections are made to screw type terminals at the rear of all mounting assemblies. All mounting assemblies (except the TL4001) which are equipped with power supplies are factory wired, and only transmission, signaling and ac connections are necessary. Terminations are clearly identified for servicing. Figures 10 through 24 illustrate battery, ground and ring generator connections for mounting assemblies. Installer connections are represented by broken lines.

4.03 The 7305-XX pin assignments are shown in Figure 25. Due to the flexible nature of these modules, these pins may have different designations, depending on the types of circuits the TL40XX is to accommodate. Table 2 outlines the application possibilities.

4.04 P1, P2 and P3 are 25 pair male connectors. P1 provides a means of connecting the TL40XX to the network, and P2 and P3 provide connection to the registered terminal equipment. Figure 26 shows how these connectors are prewired to the 7305-XX modules, and this figure should be referred to when making connections to the blocks.

4.05 The cables that connect to P1, P2 and P3 are customer supplied, but can be ordered from Wescom using the information provided in Table 3. It should be kept in mind that the ends that connect to P1, P2 and P3 have female connectors.

4.06 When the TL40XX is ordered with a power supply, the 3-prong male plug is mated to an ac outlet.



APPARATUS CASE TYPE	A INCHES	B INCHES	C INCHES	D INCHES	E INCHES	F INCHES	G INCHES
12	3.62	8.25	8.83	4.00	4.00	3.75	2.85
14	8.00	8.25	13.75	11.62	4.75	1.00	2.00
15	9.87	16.75	13.50	8.75	8.62	2.25	4.00
16	9.87	18.00	26.50	18.25	12.00	5.00	3.00

Figure 9. TL40XX Wall Mount Station Package Case Dimensions

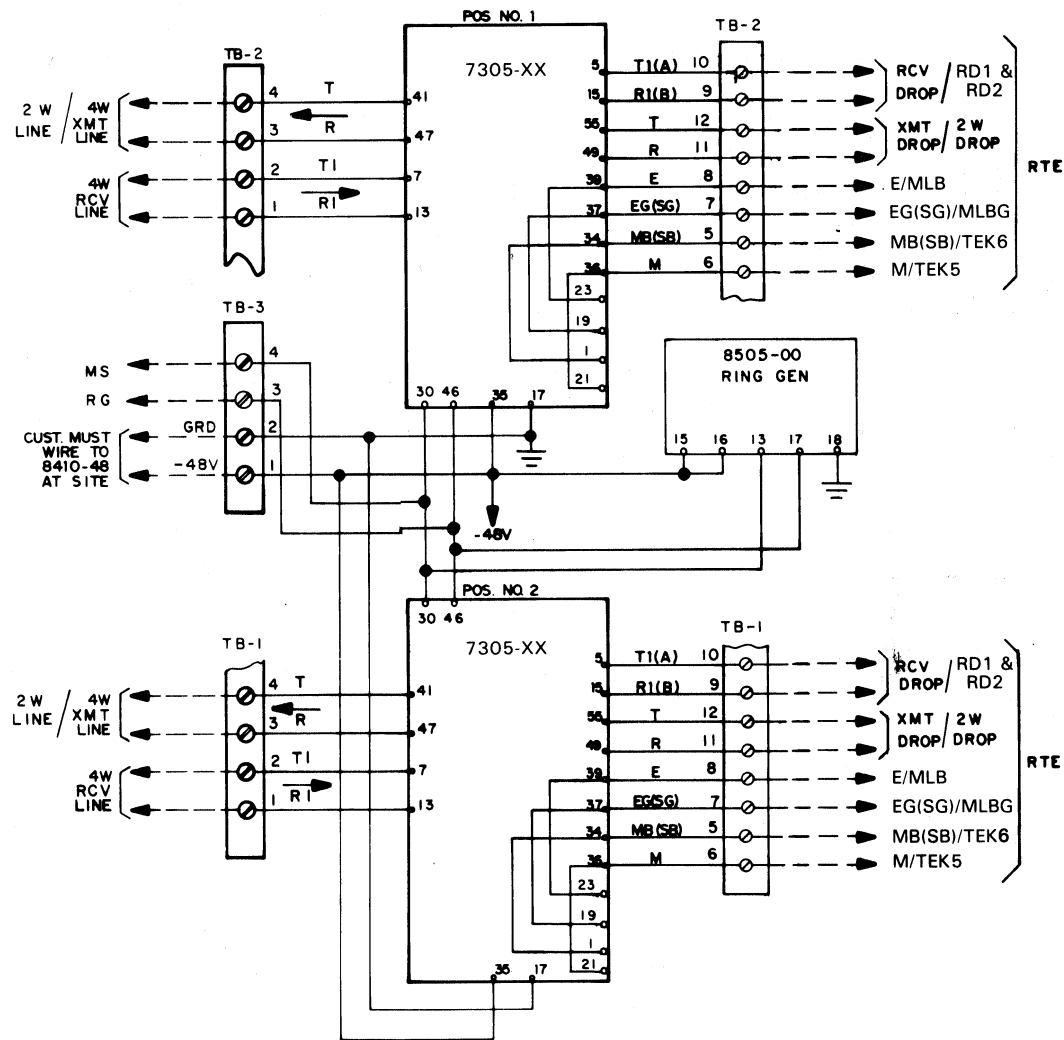


Figure 10a. TL4001 Schematic Diagram

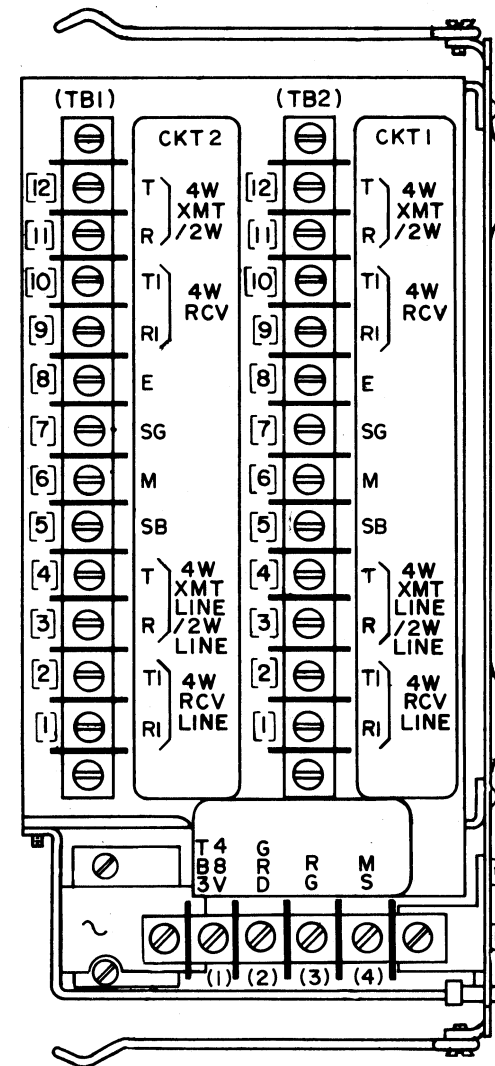


Figure 10b. Rear View Of TL4001 Showing Power And Signaling Connections

Figure 10. Wiring For TL4001

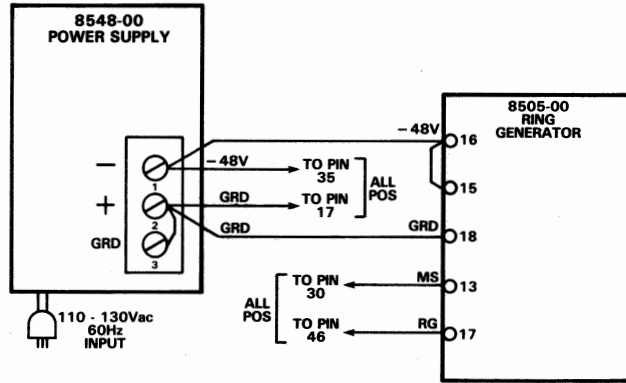


Figure 11a. Wiring For TL4002

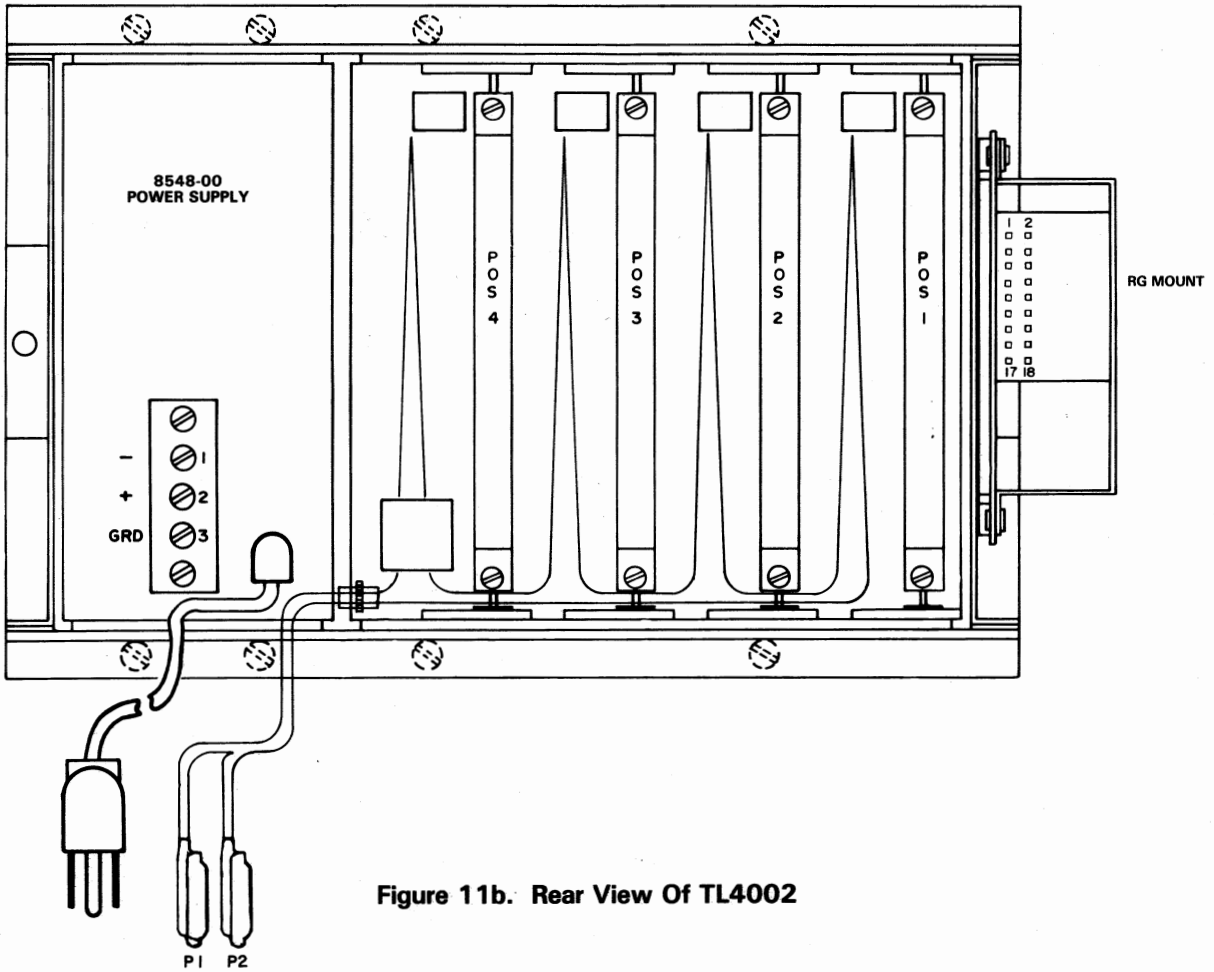


Figure 11b. Rear View Of TL4002

Figure 11. TL4002

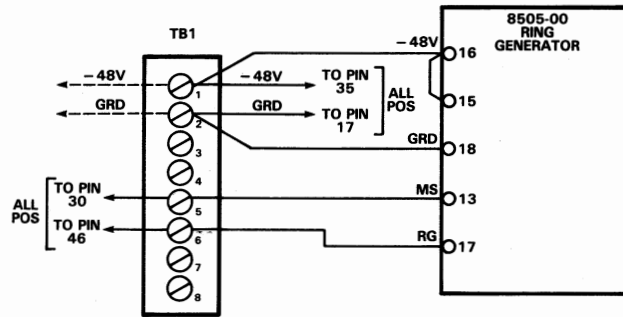


Figure 12. Wiring For TL4003 And TL4006

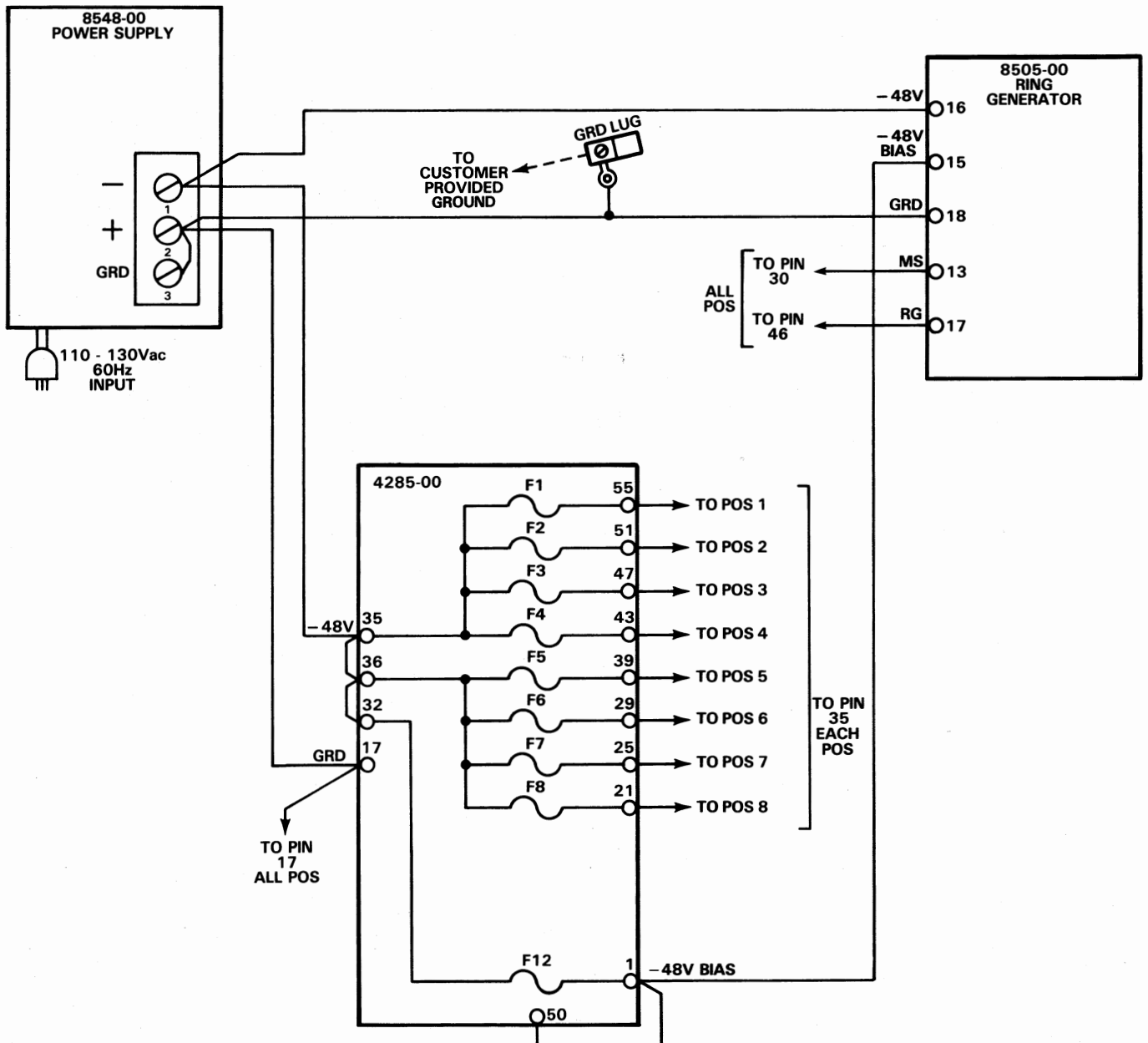


Figure 13. Wiring For TL4004

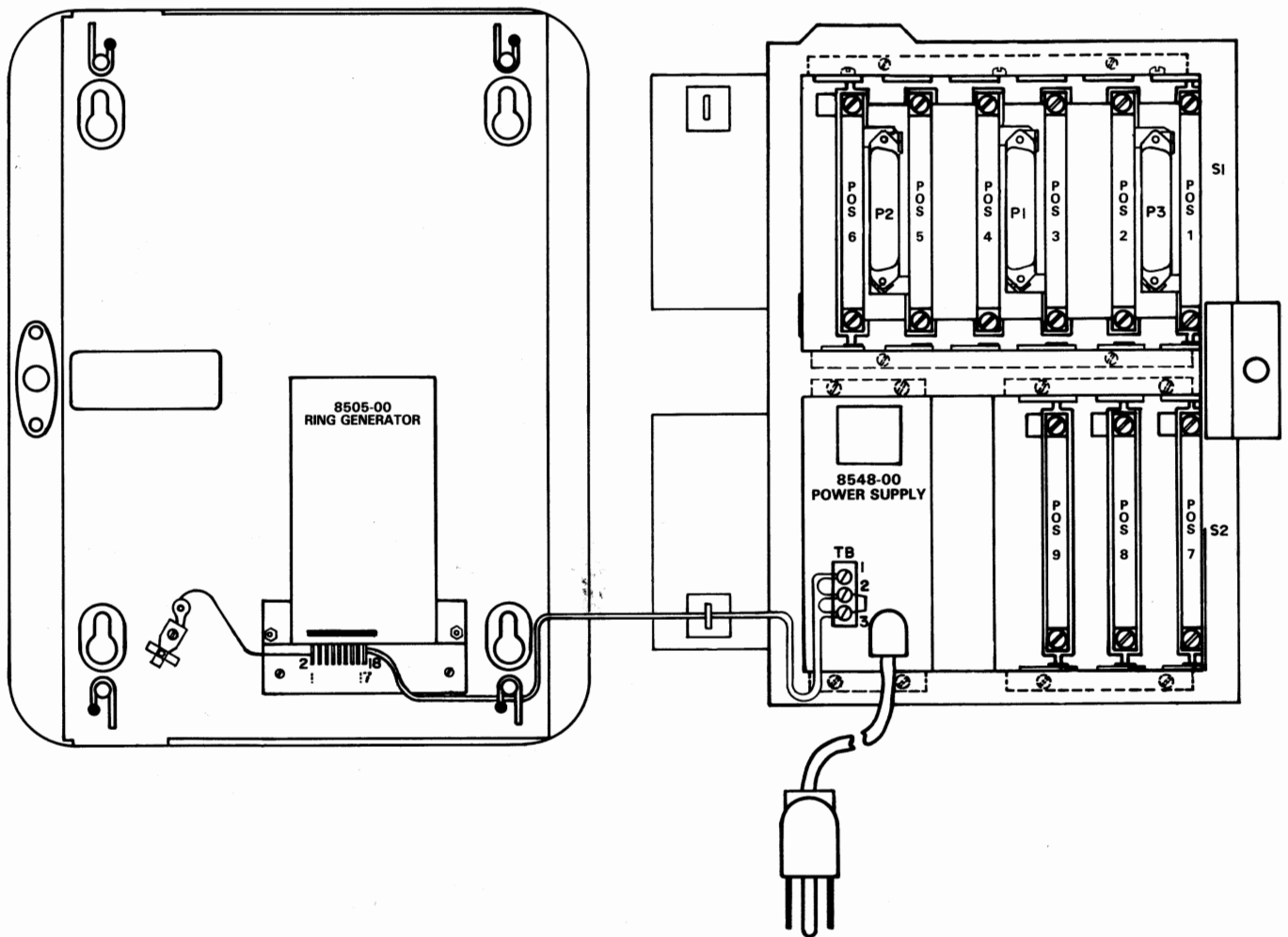


Figure 14. TL4004 (Open Rear View)

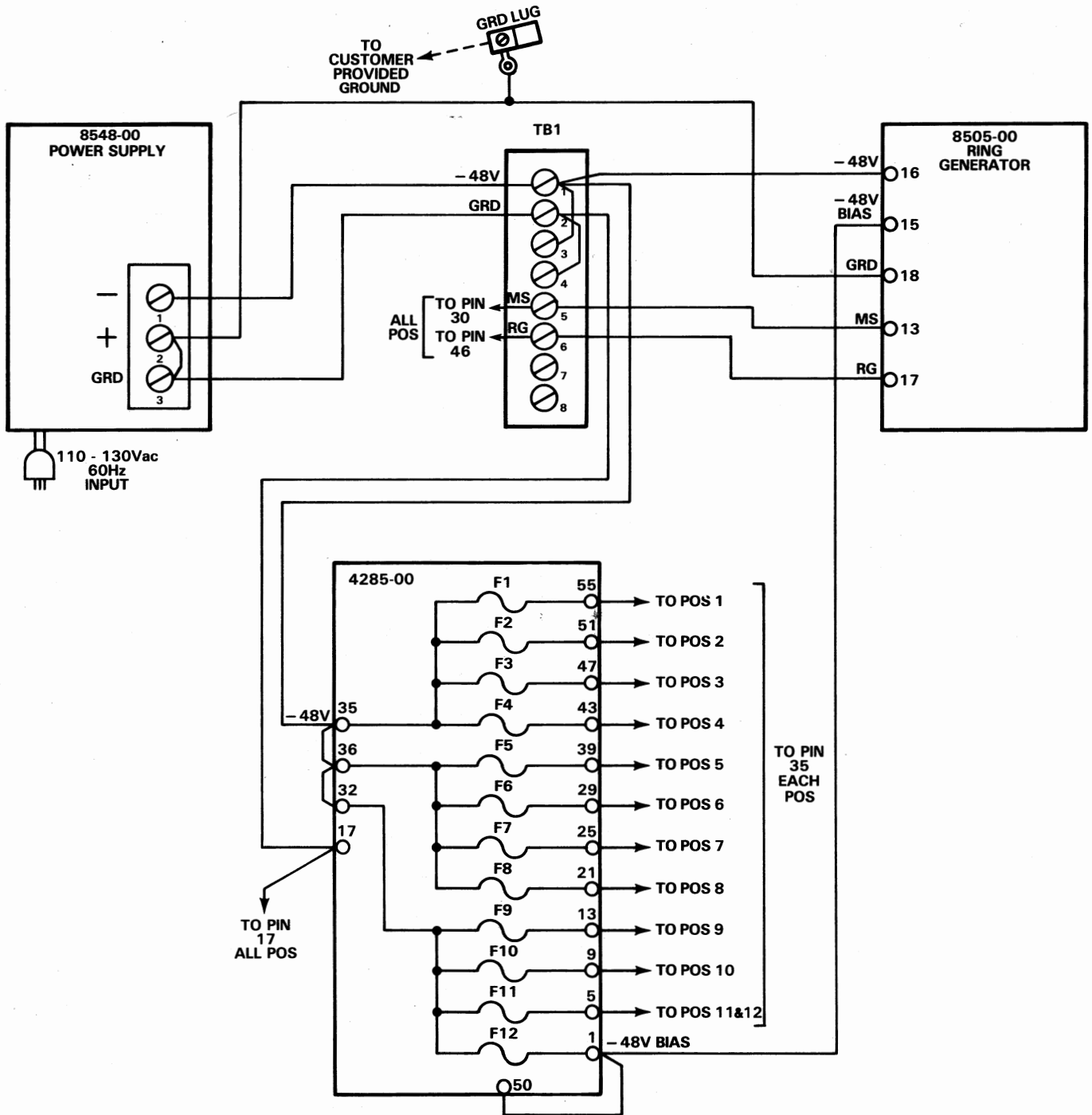


Figure 15. Wiring For TL4005

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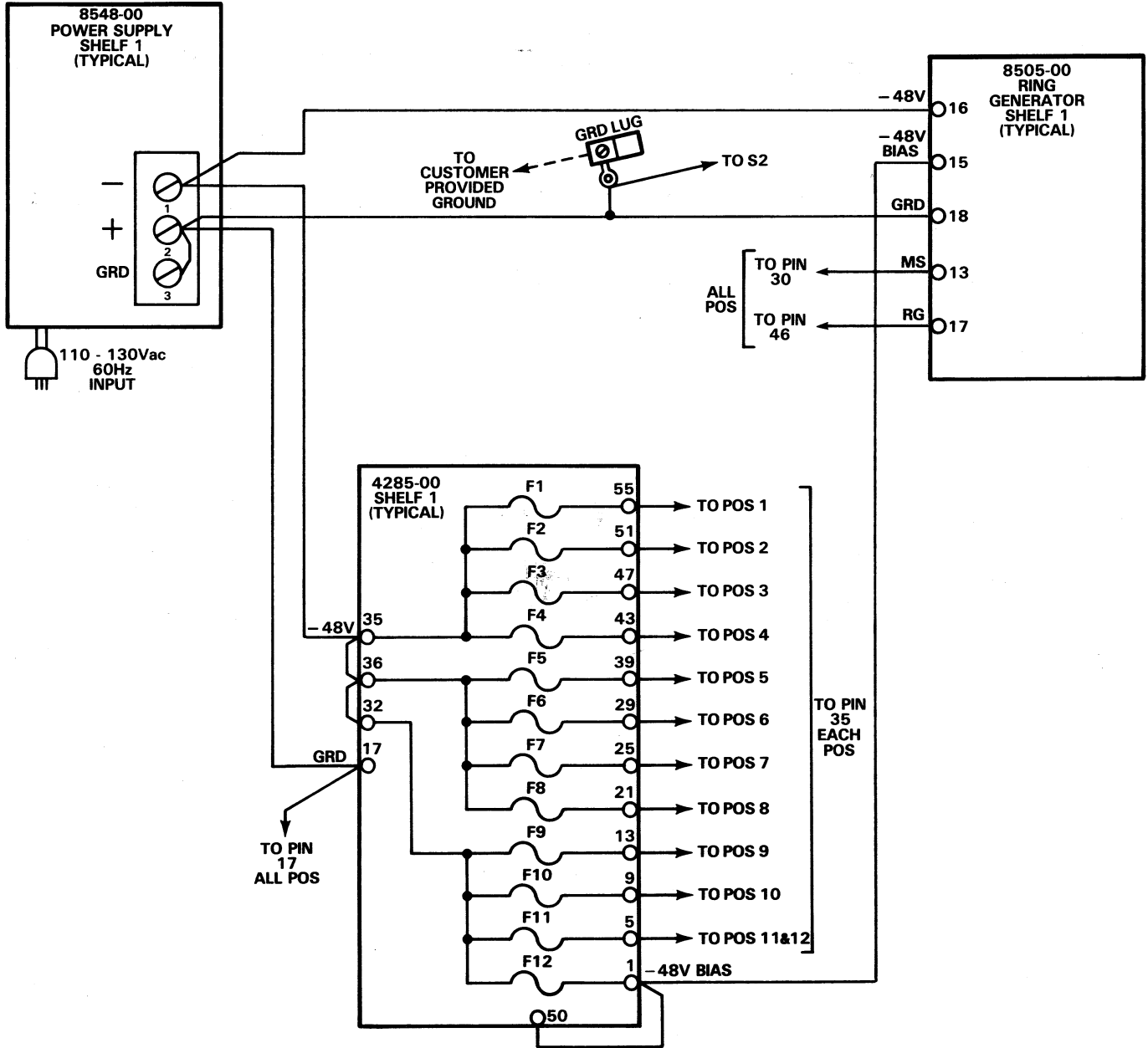


Figure 16. Wiring For TL4007 (Shelf 1 And Shelf 2 Wired Same)

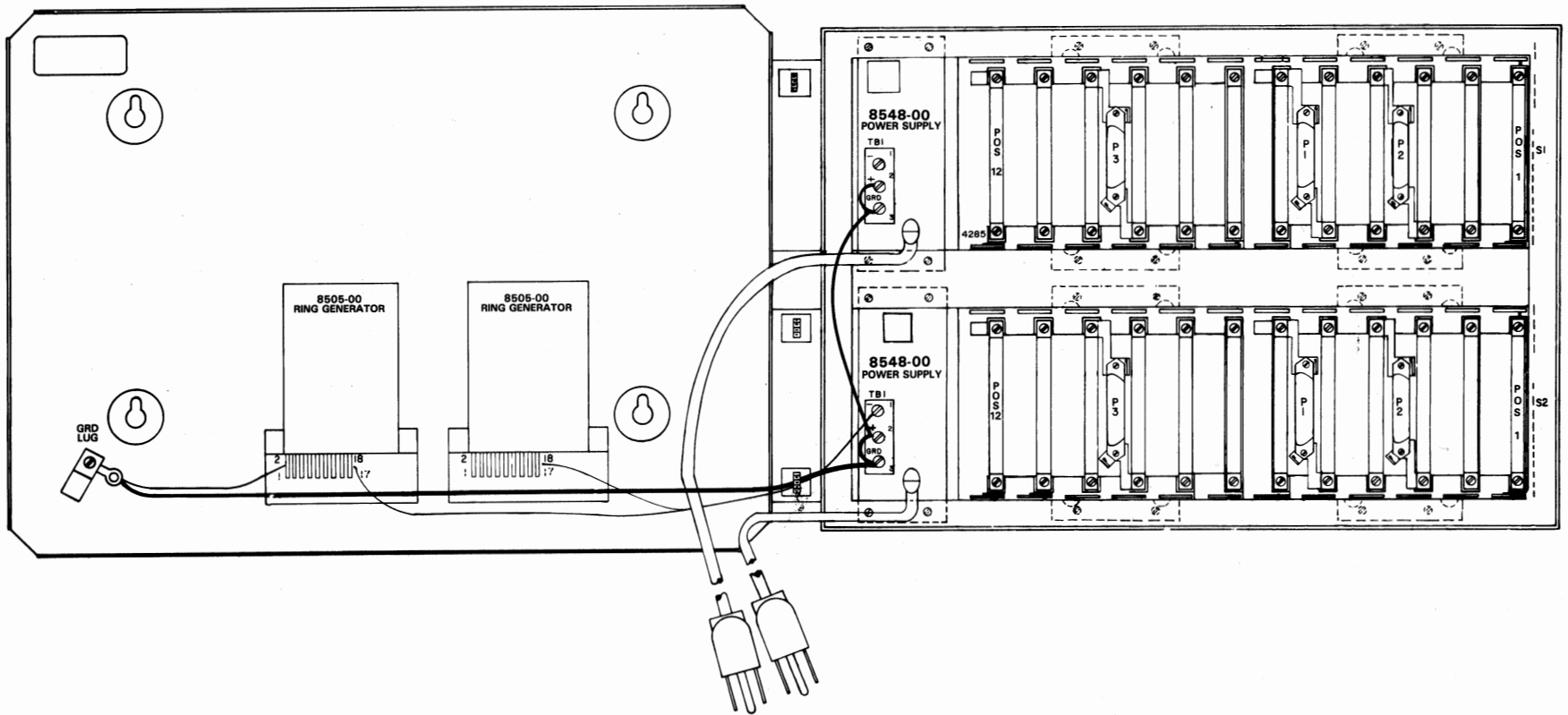


Figure 17. TL4007 (Open Rear View)

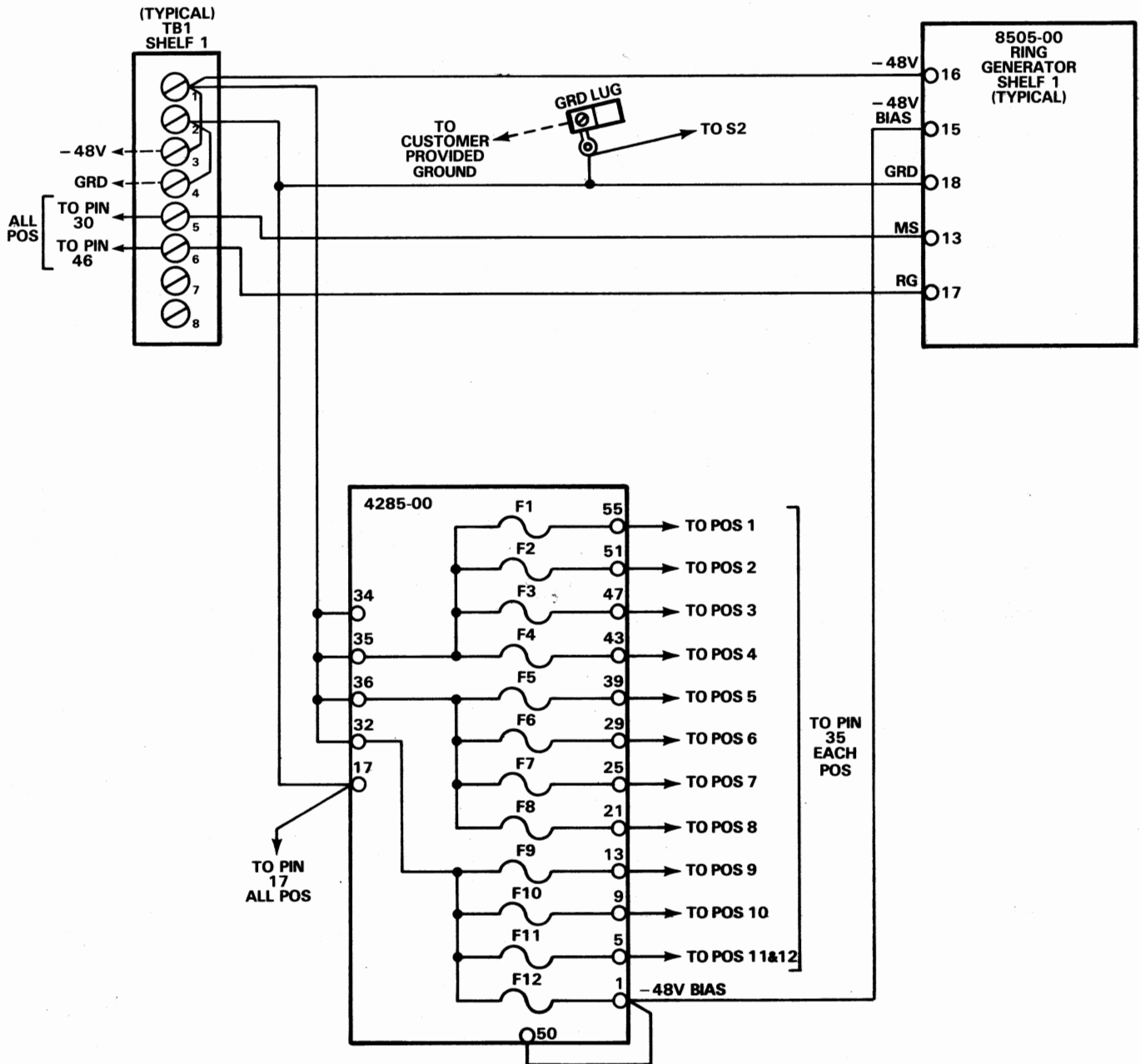


Figure 18. Wiring For TL4008 (Shelf 1 and Shelf 2 Wired Same)

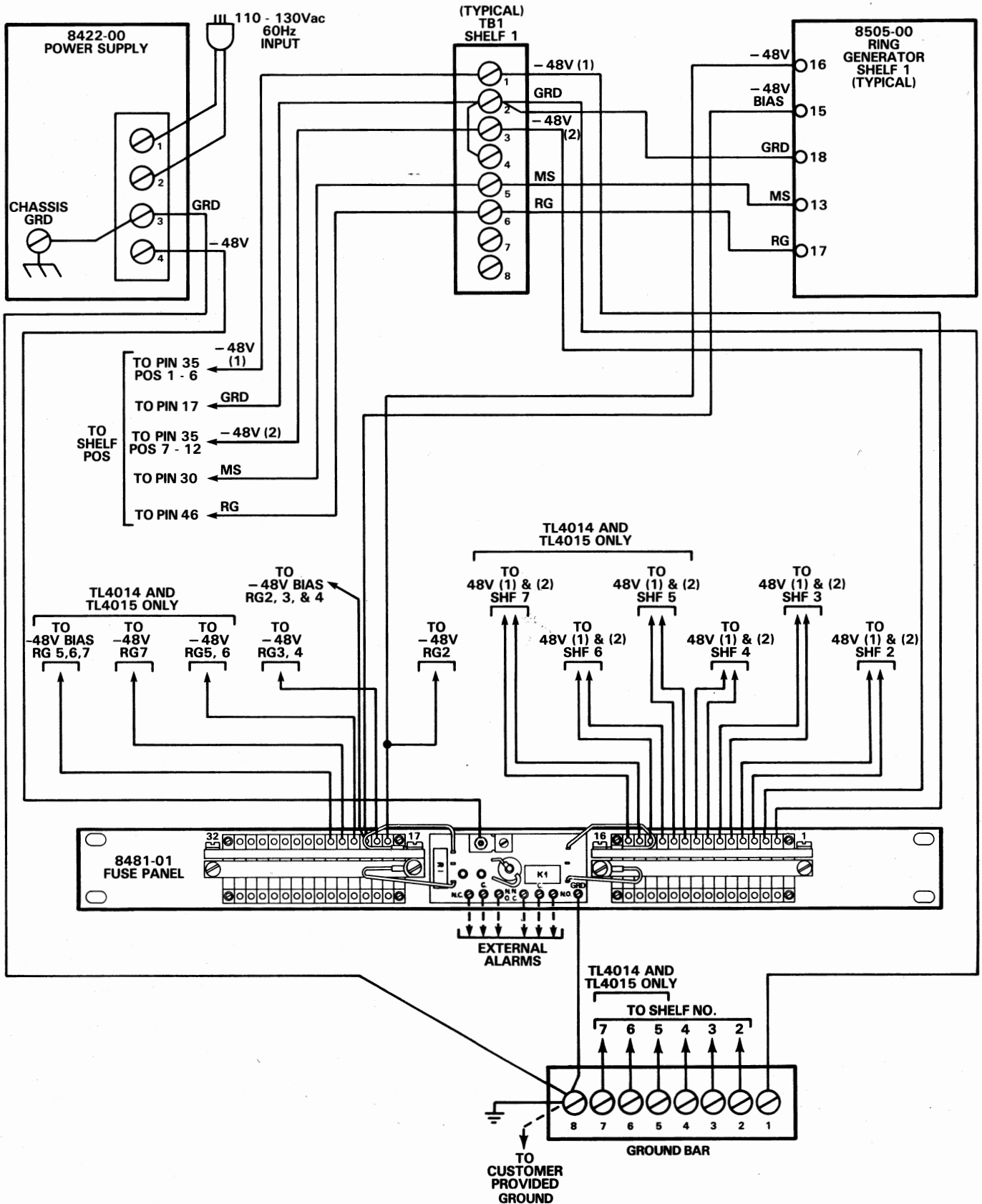


Figure 19. Wiring For TL4009, TL4010*, TL4014, And TL4015* (*Power Supply Not Included)

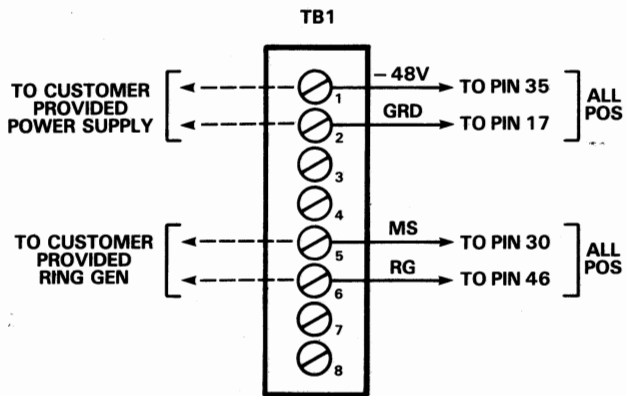


Figure 20. Wiring For TL4011

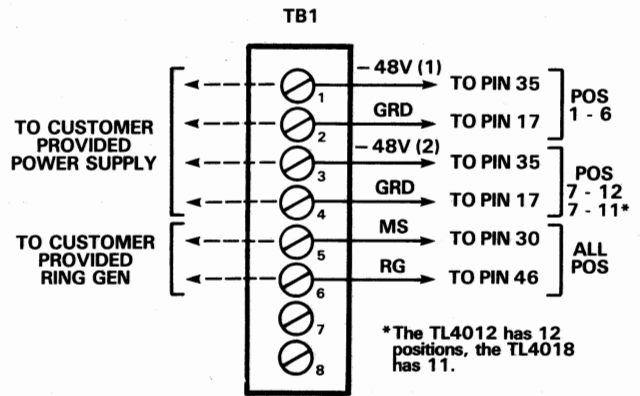


Figure 21. Wiring For TL4012 And TL4018

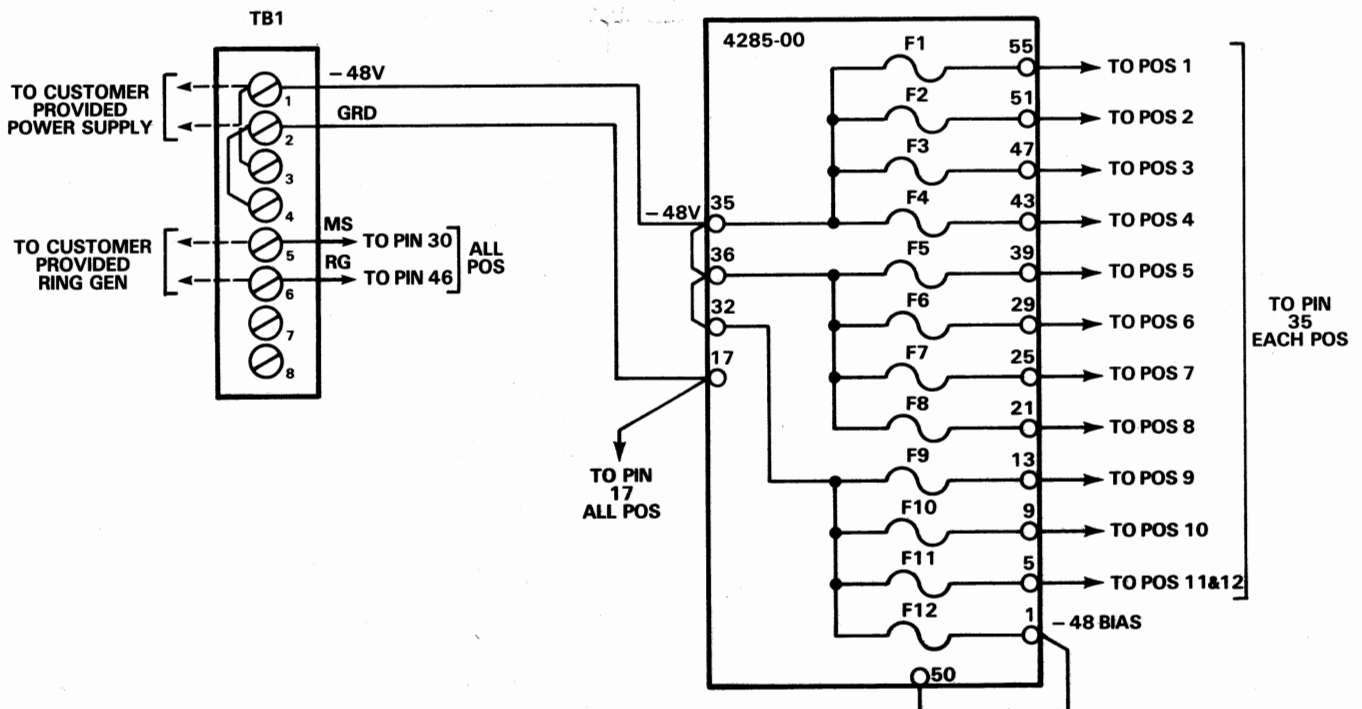


Figure 22. Wiring For TL4013

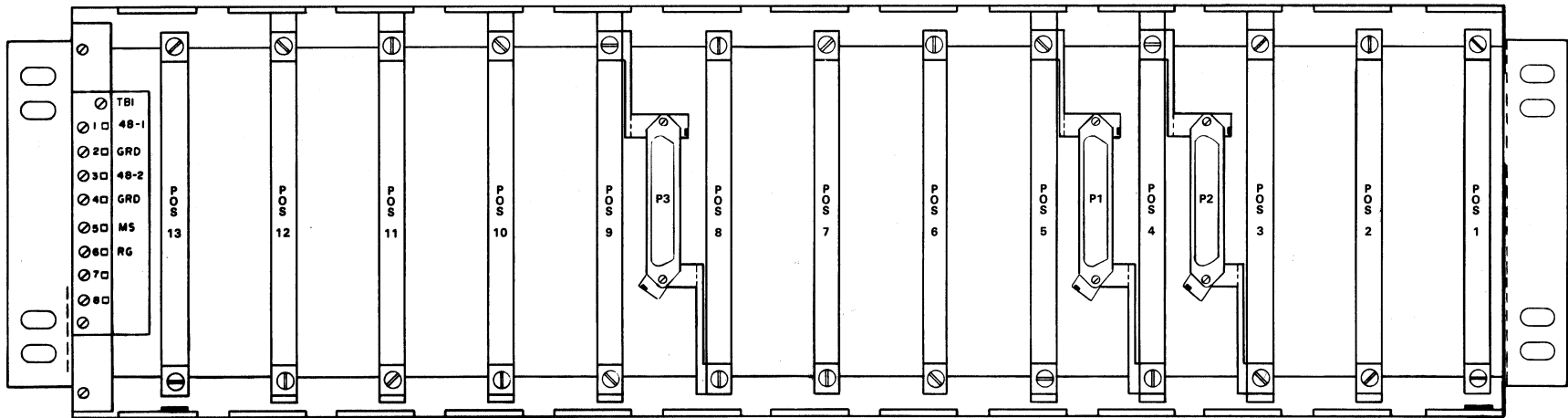


Figure 23. TL4013 Mounting Shelf (Rear View)

Section TL4-0XX-200

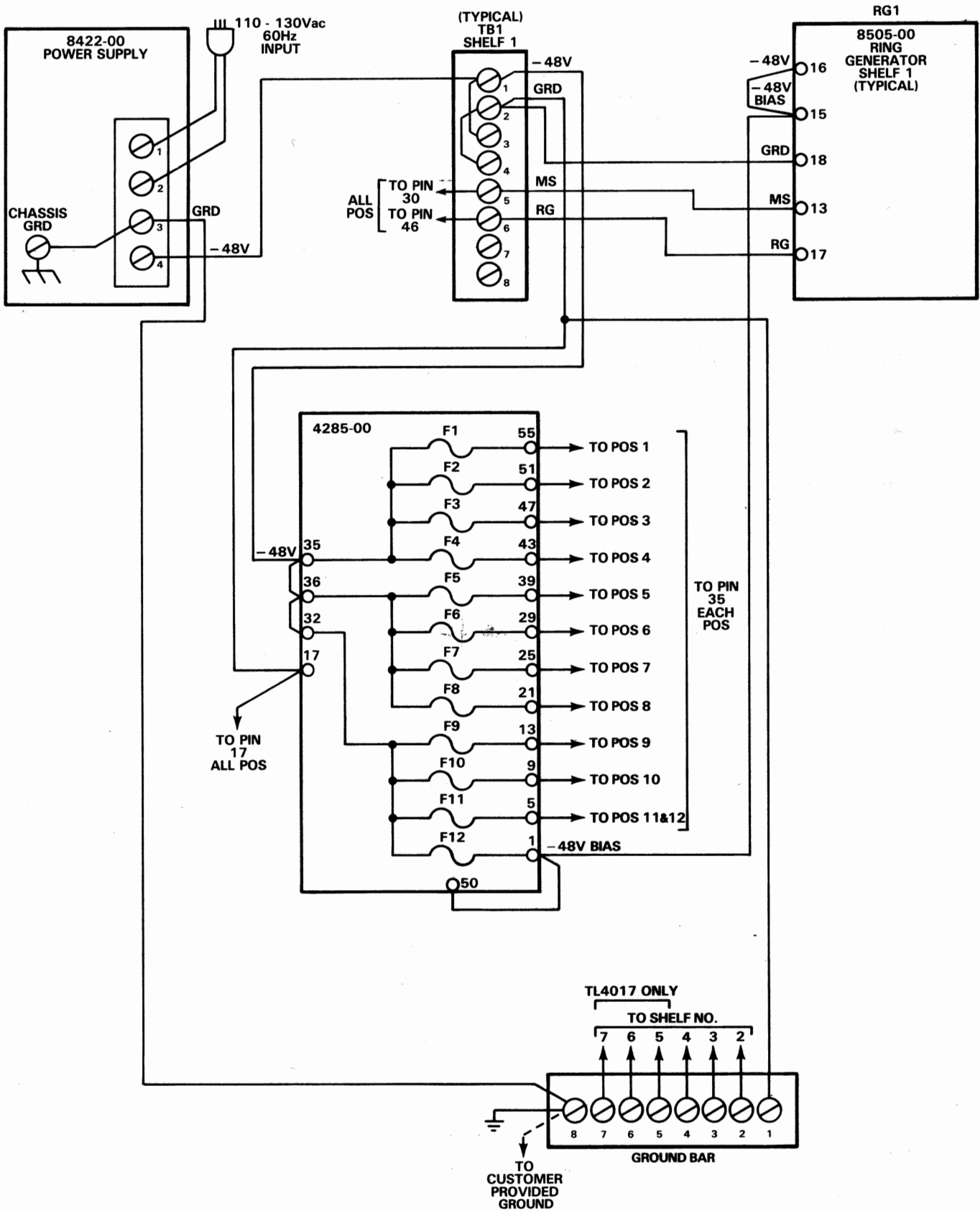


Figure 24. Wiring For TL4016 And TL4017

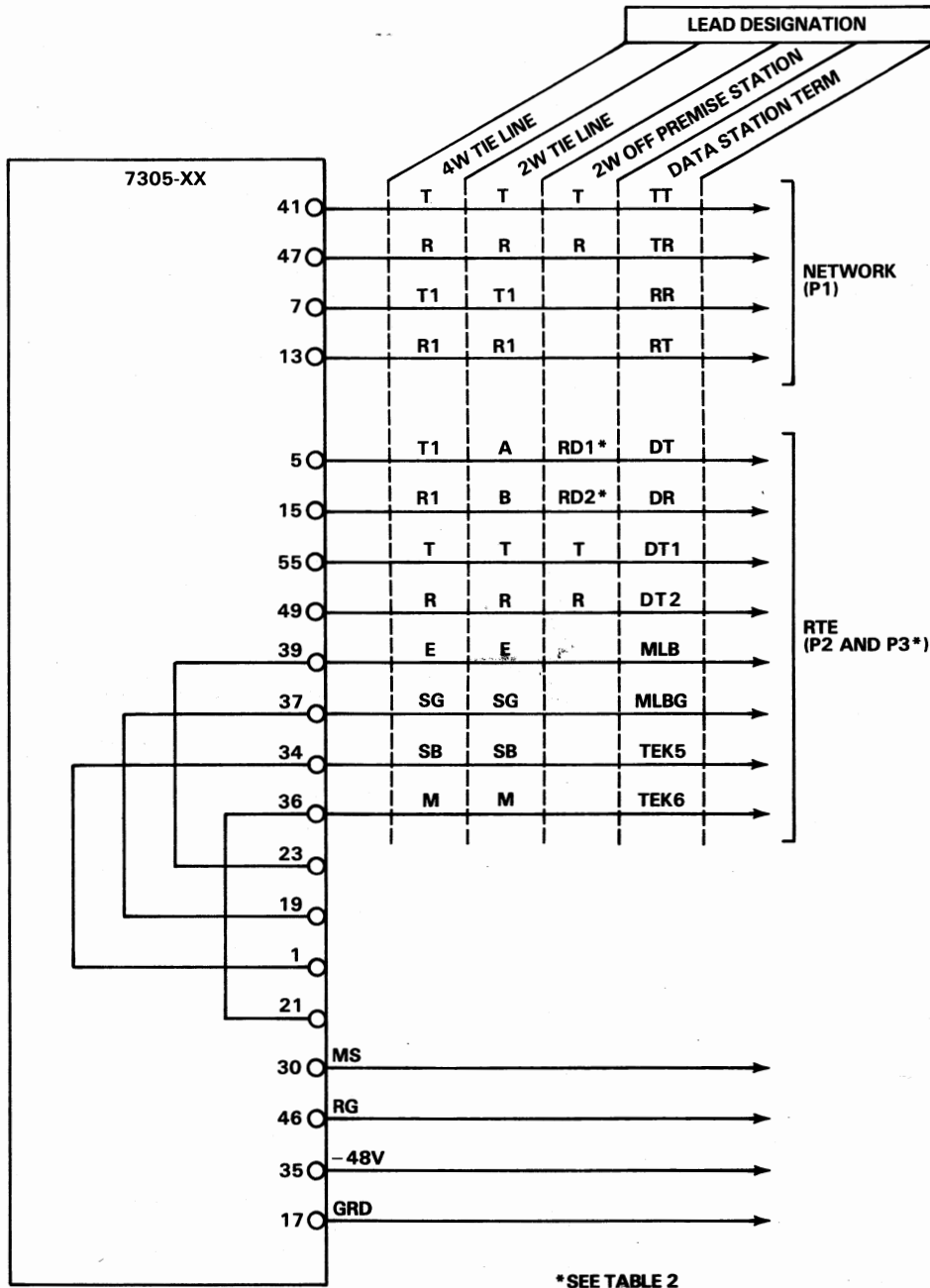


Figure 25. 7305-XX Pin Assignment

COLOR	25 PAIR CONNECTOR	POS. NO. (PAIR NO.)
W-BL	26	7305 (1) 41 T
BL-W	1	47 R
W-O	27	7 T
O-W	2	(1) 13 RI
W-S	28	(2) 41 T
S-W	3	47 R
W-BR	29	7 TI
BR-W	4	(2) 13 RI
W-S	30	(3) 41 T
S-W	5	47 R
R-BL	31	7 TI
BL-R	6	(3) 13 RI
R-O	32	(4) 41 T
O-R	7	47 R
R-S	33	7 TI
S-R	8	(4) 13 RI
R-BR	34	(5) 41 T
BR-R	9	47 R
R-S	35	7 TI
S-R	10	(5) 13 RI
BR-BL	36	(6) 41 T
BL-BR	11	47 R
BR-O	37	7 TI
O-BR	12	(6) 13 RI
BR-S	38	(7) 41 T
S-BR	13	47 R
BR-BR	39	7 TI
BR-BK	14	(7) 13 RI
BK-BR	40	(8) 41 T
S-BK	15	47 R
Y-BL	41	7 TI
BL-Y	16	(8) 13 RI
Y-O	42	(9) 41 T
O-Y	17	47 R
Y-S	43	7 TI
S-Y	18	(9) 13 RI
Y-BR	44	(10) 41 T
BR-Y	19	47 R
Y-S	45	7 TI
S-Y	20	(10) 13 RI
V-BL	46	(11) 41 T
BL-V	21	47 R
V-O	47	7 TI
O-V	22	(11) 13 RI
V-S	48	(12) 41 T
S-V	23	47 R
V-BR	49	7 TI
BR-V	24	7305 (12) 13 RI
V-S	50	SPARE
S-V	25	SPARE

P1

TL4003 & TL4004

TL4005

TL4006

TL4007

TL4008

TL4009

TL4010

TL4012

TL4013

TL4014

TL4015

TL4016

TL4017

COLOR	25 PAIR CONNECTOR	POS. NO. (PAIR NO.)
W-BL	26	7305 (1) 55 T
BL-W	1	49 R
W-O	27	5 TI
O-W	2	15 RI
W-G	28	39 E
G-W	3	37(SG)
W-BR	29	39 M
BR-W	4	(1) 34(SB)
W-S	30	(2) 55 T
S-W	5	49 R
R-BL	31	5 TI
BL-R	6	15 RI
R-O	32	39 E
O-R	7	37(SG)
R-G	33	39 M
G-R	8	(2) 34(SB)
R-BR	34	(3) 55 T
BR-R	9	49 R
R-S	35	5 TI
S-R	10	15 RI
BR-BL	36	39 E
BL-BR	11	37(SG)
BR-O	37	39 M
O-BR	12	(3) 34(SB)
BR-S	38	(4) 55 T
S-BR	13	49 R
BR-BR	39	5 TI
BR-BK	40	15 RI
BK-BR	4	39 E
S-BK	15	37(SG)
Y-BL	41	39 M
BL-Y	16	(4) 34(SB)
Y-O	42	(5) 55 T
O-Y	17	49 R
Y-G	43	5 TI
G-Y	18	15 RI
Y-BR	44	39 E
BR-Y	19	37(SG)
Y-S	45	39 M
S-Y	20	(5) 34(SB)
V-BL	46	(6) 55 T
BL-V	21	49 R
V-O	47	5 TI
O-V	22	15 RI
V-S	48	39 E
S-V	23	37(SG)
V-BR	49	39 M
BR-V	24	7305 (6) 34(SB)
V-S	50	SPARE
S-V	25	SPARE

P2

TL4002

TL4003
TL4004
TL4005
TL4006
TL4007
TL4008
TL4009
TL4010
TL4011
TL4012
TL4013
TL4014
TL4015
TL4016
TL4017

COLOR	25 PAIR CONNECTOR	POS. NO. (PAIR NO.)
W-BL	26	7305 (7) 55 T
BL-W	1	49 R
W-O	27	5 TI
O-W	2	15 RI
W-G	28	39 E
G-W	3	37(SG)
W-BR	29	39 M
BR-W	4	(7) 34(SB)
W-S	30	(8) 55 T
S-W	5	49 R
R-BL	31	5 TI
BL-R	6	15 RI
R-O	32	39 E
O-R	7	37(SG)
R-G	33	39 M
G-R	8	(8) 34(SB)
R-BR	34	(9) 55 T
BR-R	9	49 R
R-S	35	5 TI
S-R	10	15 RI
BR-BL	36	39 E
BL-BR	11	37(SG)
BR-O	37	39 M
O-BR	12	(9) 34(SB)
BR-S	38	(10) 55 T
S-BR	13	49 R
BR-BR	39	5 TI
BR-BK	40	15 RI
BK-BR	4	39 E
S-BK	15	37(SG)
Y-BL	41	39 M
BL-Y	16	(10) 34(SB)
Y-O	42	(11) 55 T
O-Y	17	49 R
Y-G	43	5 TI
G-Y	18	15 RI
Y-BR	44	39 E
BR-Y	19	37(SG)
Y-S	45	39 M
S-Y	20	(11) 34(SB)
V-BL	46	(12) 55 T
BL-V	21	49 R
V-O	47	5 TI
O-V	22	15 RI
V-S	48	39 E
S-V	23	37(SG)
V-BR	49	39 M
BR-V	24	7305 (12) 34(SB)
V-S	50	SPARE
S-V	25	SPARE

P3

TL4004

TL4007

TL4005
TL4006
TL4008
TL4009
TL4010
TL4012
TL4013
TL4014
TL4015
TL4016
TL4017

Figure 26. NTE 25-Pair Connectors

Table 2. NTE Assembly 25 Pair Connectors Transmission And Signaling Configuration

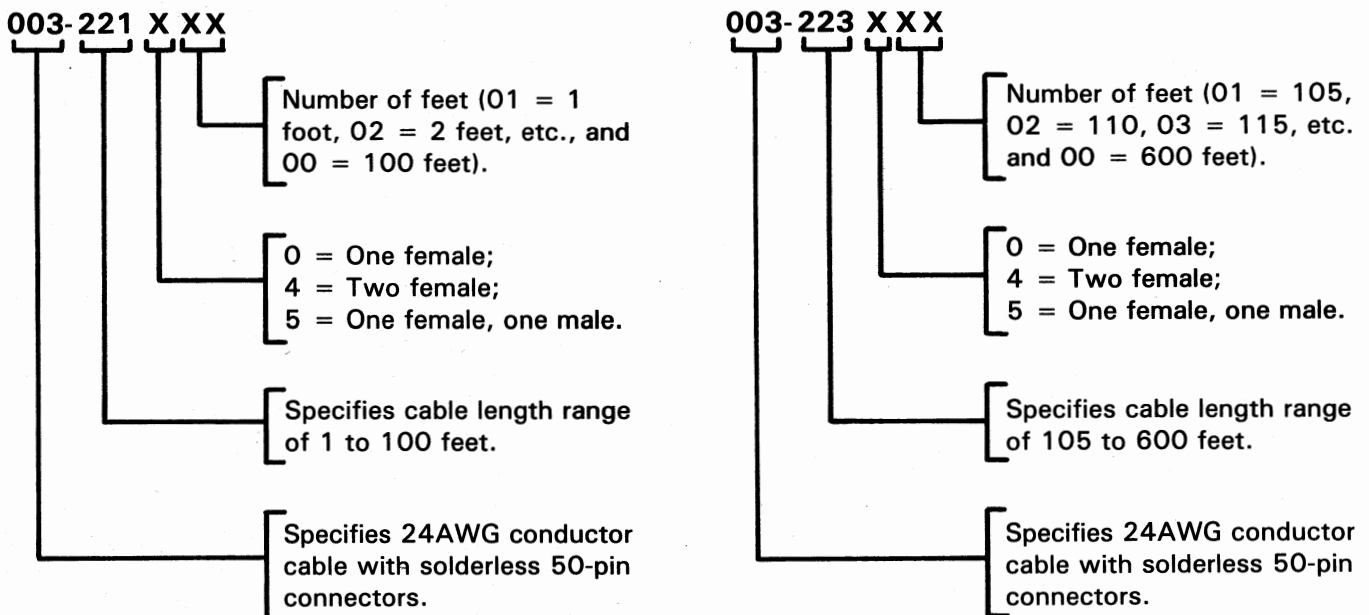
25 PAIR CONNECTOR	CIRCUIT TYPE				MODULE PIN NOs
	TIE LINE 4W-4W DX OR SF	TIE LINE 4W-2W DX OR SF	OFF PREMISE STA 2W LSR	DATA STATION TERMINATION	
P1 Network Connection	4W XMT LINE (T, R)	2W LINE (T, R)	2W STA (T, R)	XMT LINE (TT, TR)	41, 47
	4W RCV LINE (T1, R1)	4W RCV LINE (T1, R1)	No connection	RCV LINE (RR, RT)	7, 13
P2 AND P3*	XMT DROP (T, R)	2W DROP (T, R)	2W SWG (T, R)	XMT STA (DT1, DT2)	55, 49
	RCV DROP (T1, R1)	RCV DROP (A, B)	HORIZON† ring detection leads** (RD1, RD2)	RCV STA (DT, DR)	5, 15
Registered Terminal Equipment Connection	E&SG (EG) Leads	E&SG (EG) Leads	No connection	Manual Loopback (MLB, MLBG)	39, 37
	SB(MB)&M Leads	SB(MB)&M Leads	No connection	TEK5, TEK6	34, 36

*P3 is used in assemblies with more than six circuits.

**When 7305-30 LSR is used and is optioned for HORIZON interface, Pins 5 and 15 become RD1 and RD2, HORIZON ring detection leads.

†Registered TM of Western Electric.

Table 3. Ordering Information For Cable Assemblies



Fusing

4.07 Wall mounted assemblies and shelves may be ordered with or without circuit fusing (see Table 1). The 4285-00 Fuse Module, when equipped with ¼ amp GMT type fuses, accommodates up to 12 circuits. The fuse assignment for the 4285-00 is shown in the figures of the assemblies that use these modules.

4.08 The 8481-01 Fuse Panel is equipped with 1½ amp GMT type fuses and provides circuit fusing for the TL4009, TL4010, TL4014, and TL4015 cabinets. Each 1½ amp fuse provides fusing for six circuits. The fuse assignment for the 8481-01 is shown in Table 4.

4.09 The TL4016 and the TL4017 Mounting Assemblies are designed with TL4013 shelves which include a 4285-00 Fuse Module.

Table 4. Fuse Assignments For 8481-01 Fuse Panel

FUSE	SHELF	CIRCUITS
1	1	1 - 6
2	1	7 - 12
3	2	1 - 6
4	2	7 - 12
5	3	1 - 6
6	3	7 - 12
7	4	1 - 6
8	4	7 - 12
9	5	1 - 6
10	5	7 - 12
11	6	1 - 6
12	6	7 - 12
13	7	1 - 6
14	7	7 - 12
15	spare	
16	spare	
17	1 & 2 (RG -48V)	1 & 2
18	3 & 4 (RG -48V)	3 & 4
19	1 - 4 (RG Bias)	1 - 4
20	5 & 6 (RF -48V)	5 & 6
21	7 (RG -48V)	7
22	5 - 7 (RG Bias)	5 - 7
23	spare	
through 32		

5. NTE MODULES

5.01 The TL40XX Mounting Assemblies will accept all NTE combined function modules shown in Table 5. The weights for each module are shown in the table and may be used to calculate the total weight for cases and cabinets. Facility Interface Codes for each group of modules are given in Table 6 and the translator of Table 7 provides descriptions for each code.

6. INSPECTION

6.01 Inspect the equipment thoroughly as soon as possible after delivery. If the equipment has been damaged in transit, immediately report the extent of damage to the transportation company.

6.02 Wescom equipment is identified by a model and issue number imprinted on the front panel or located elsewhere on the equipment. Each time a major engineering design change is made on the equipment, the issue number is advanced by one number on any following models that are manufactured. Therefore, be sure to include the issue number along with the model number when making inquiries about the equipment.

6.03 Depending upon the order code, the mounting assembly may include loose items, such as 4285-00s or fuse kits that are packed separately. Refer to Table 1 to verify that the contents are complete.

7. REPAIR AND REPLACEMENT

7.01 Field repairs involving the replacement of components within a unit are not recommended. If an item is found to be defective, contact Wescom, Inc., by telephone or TWX, for instructions regarding replacement or repair.

7.02 If a replacement unit is required, it will be shipped in the fastest manner consistent with the urgency of the situation. Upon

Table 5. Module Information

NUMBER	DESCRIPTION	CODE GROUP	WEIGHT (OUNCES)
NTE Combined Function Module			
7305-00	4W Repeater And DX1/DX2	1	20
7305-01	(Issue 1) 4W-2W Repeater And DX1/DX2	2	20
7305-01	(Issue 2) 4W-4W/2W Repeater And DX1/DX2	1 and 2	20
7305-02	4W Repeater And DX1/DX2 With Prescription Gain And Loopback	1	14
7305-03	4W Repeater And DX1/DX2 With Prescription Gain And Loopback (No Front Panel Jacks)	1	14
7305-04	4W Repeater And DX1/DX2 With Prescription Gain	1	14
7305-11	4W Repeater And SF To E&M With Prescription Gain	1	13
7305-12	4W Repeater And SF To E&M With Prescription Gain And Loopback (No Front Panel Jacks)	1	13
7305-13	4W Repeater And SF To E&M With Prescription Gain And Loopback	1	13
7305-14	4W-4W/2W Repeater And SF To E&M With Prescription Gain	1 and 2	13
7305-19	4W-4W/2W Repeater And SF To E&M With Prescription Gain And Loopback	1 and 2	13
NTE Module			
7305-30	2W Loop Signaling Repeater, LSO With HORIZON Interface Option	3	19
Data Channel Interface			
7305-42	Data Channel Interface With Loopback	N/A	14
7305-45	Data Channel Interface With Loopback And Sealing Current	N/A	14
7305-46	Data Channel Interface With Loopback And Sealing Current	N/A	14
4112-11	Data Channel Interface With Loopback	N/A	17

receipt of a replacement unit, return the defective unit in the carton in which the replacement was shipped, using the shipping label provided, to:

Wescom, Inc.
8245 Lemont Road
Downers Grove, Illinois 60515

Canadian Customers:
Rockwell International of Canada Ltd.
Wescom Canada Division
45 Sinclair Ave.
Georgetown, Ontario
L7G 4X4

7.03 In addition to the standard Wescom Warranty Service, Wescom offers a repair or exchange service for those items out of warranty. Under this arrangement, faulty units may be shipped to Wescom and either completely repaired and quality tested or exchanged for a replacement unit. To obtain details of this service and a schedule of prices, contact your local Wescom Sales Representative.

Table 6. FIC Code Group Equivalents

CODE GROUP (From Table 5)	FACILITY INTERFACE CODES
1	TL31E, TL31M, TL32E, TL32M TC31E, TC31M, TC32E, TC32M
2	TL11E, TL11M, TL12E, TL12M
3	OL13A, OL13B, OL13C

8. SPECIFICATIONS

- 8.01 Maximum power requirements per module:
- (a) 7305-00 BUSY CURRENT: -48Vdc = 68mA (+M lead).

Table 7. Facility Interface Code Translator

CODE	CHARACTER 1	CHARACTER 2	CHARACTER 3	CHARACTER 4	CHARACTER 5		
TL11E	Tie Trunk	Lossless Interface	Type I (2W) Transmission Interface	Type I E&M Signaling Interface	E = RTE Provides Ground on E Lead to Originate M = RTE Provides Battery on M Lead to Originate		
TL11M				Type II E&M Signaling Interface			
TL12E							
TL12M							
TL31E						Type III (4W) Transmission Interface	Type I E&M Signaling Interface
TL31M							Type II E&M Signaling Interface
TL32E							
TL32M							
TC31E		Conventional Term Set	Type I E&M Signaling Interface				
TC31M			Type II E&M Signaling Interface				
TC32E							
TC32M							
OL13A	Off Premise Station			Lossless Interface	Type I (2W) Transmission Interface	Loop Signaling Interface	
OL13B							
OL13C							

(b) 7305-01 BUSY CURRENT: $-48\text{Vdc} = 68\text{mA}$ (+M lead). (Issues 1 and 2)

(c) 7305-02 BUSY CURRENT: $-48\text{Vdc} = 88\text{mA}$ (+M lead). LOOPBACK 108mA.

(d) 7305-03 BUSY CURRENT: $-48\text{Vdc} = 88\text{mA}$ (+M lead). LOOPBACK 108mA.

(e) 7305-04 BUSY CURRENT: $-48\text{Vdc} = 88\text{mA}$ (+M lead).

(f) 7305-11 BUSY CURRENT: $-48\text{Vdc} = 91\text{mA}$ (+M lead).

(g) 7305-12 BUSY CURRENT: $-48\text{Vdc} = 91\text{mA}$ (+M lead). LOOPBACK 109mA.

(h) 7305-13 BUSY CURRENT: $-48\text{Vdc} = 91\text{mA}$ (+M lead). LOOPBACK 109mA.

(i) 7305-14 BUSY CURRENT: $-48\text{Vdc} = 106\text{mA}$ (+M lead).

(j) 7305-19 BUSY CURRENT: $-48\text{Vdc} = 106\text{mA}$ (+M lead). LOOPBACK 108mA.

(k) 7305-30 BUSY CURRENT: $-48\text{Vdc} = 37\text{mA}$ (+LOOP CURRENT).

(l) 7305-42 BUSY CURRENT: MAX 42mA, LOOPBACK MAX 42mA.

(m) 8505-00 BUSY CURRENT: $-48\text{Vdc} = 10\text{W}$ 75Vac INPUT 500mA MAX.