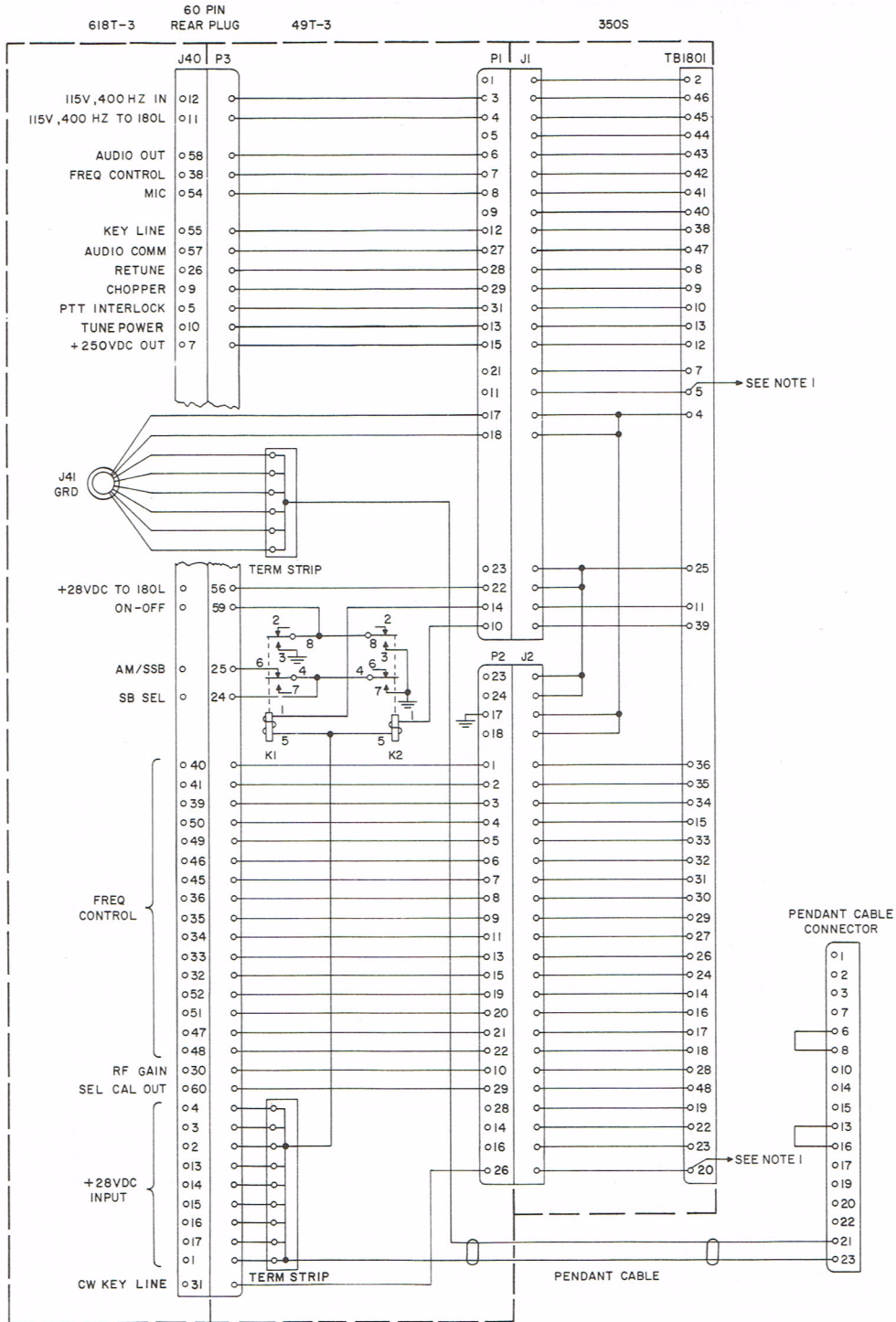


- NOTES:
1. THIS WIRE IN 49T-4A ONLY.
 2. IN THE 49T-4, P3-55 IS CONNECTED TO PI-12 ONLY. IN THE 49T-4A, P3-55 IS CONNECTED TO PI-11 ONLY.
 3. FOR 618S TO 618T-1 RETROFIT INSTALLATIONS WHERE CW OPERATION IS DESIRED, WIRES MUST BE ADDED FROM TB1801-5 TO PIN 1 AND FROM TB1801-20 TO PIN 1 WHICH FORMERLY MATED WITH THE 614C-2 CONNECTOR PLUG. A 440Q-3 ADAPTER CABLE MUST BE USED TO CONNECT THE 714E-3 CONTROL UNIT.

618T-1 Airborne SSB Transceiver With 49T-4/4A Retrofit Adapter,
Interconnecting Wiring Diagram
Figure 413

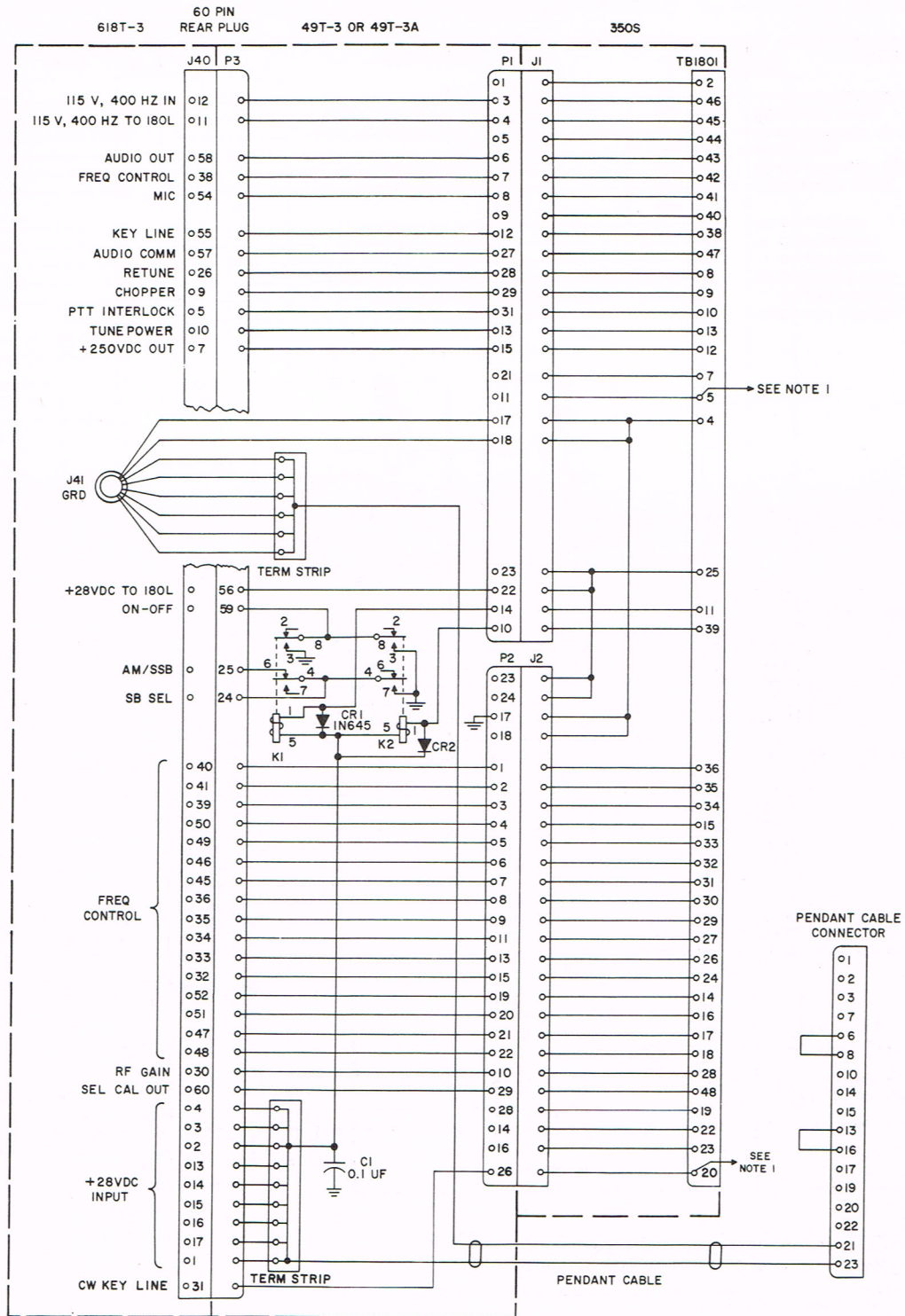


NOTE:
1. FOR 618S TO 618T-3 RETROFIT INSTALLATIONS WHERE CW OPERATION IS DESIRED, WIRES MUST BE ADDED FROM TB1801-5 TO PIN k AND FROM TB1801-20 TO PIN j WHICH FORMERLY MATED WITH THE 614C-2 CONNECTOR PLUG. A 440Q-3 ADAPTER CABLE MUST BE USED TO CONNECT THE 714E-3 CONTROL UNIT.

C373-55-5

618T-3 Airborne SSB Transceiver With 49T-3 Retrofit Adapter,
Interconnecting Wiring Diagram
Figure 414

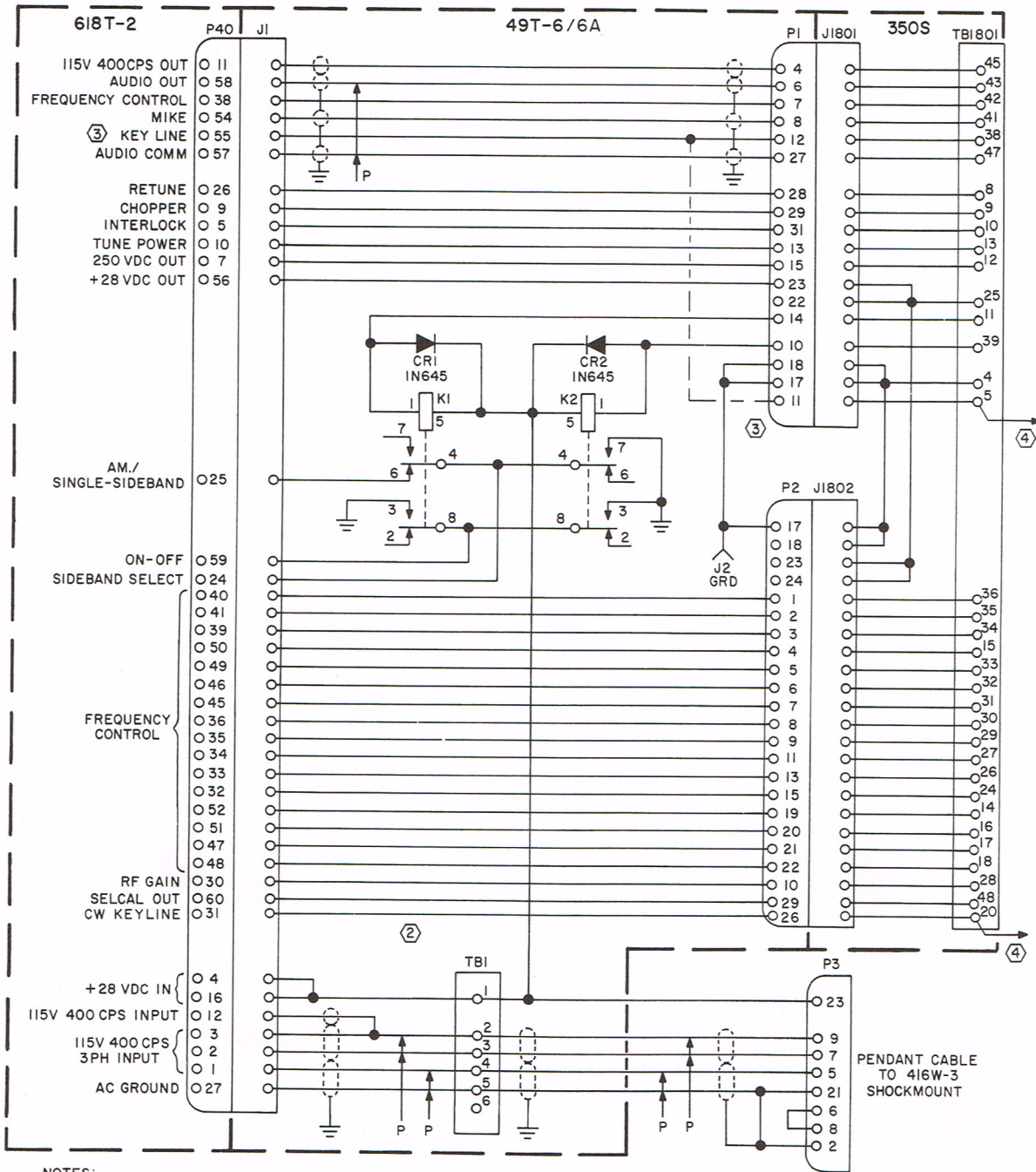
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NOTE:
 1. FOR 618S TO 618T-3 RETROFIT INSTALLATIONS WHERE CW OPERATION IS DESIRED, WIRES MUST BE ADDED FROM TB1801-5 TO PIN k AND FROM TB1801-20 TO PIN l WHICH FORMERLY MATED WITH THE 614C-2 CONNECTOR PLUG. A 440Q-3 ADAPTER CABLE MUST BE USED TO CONNECT THE 714E-3 CONTROL UNIT.

TPO-5479-015

618T-3 Airborne SSB Transceiver With 49T-3A Retrofit Adapter,
 Interconnecting Wiring Diagram
 Figure 415



NOTES:

- ① 28VDC MUST BE SUPPLIED TO PIN 23 OF THE 416W-3 SHOCKMOUNT FROM THE AIRCRAFT ELECTRICAL SYSTEM.
- ② THIS WIRE FROM J1-31 TO P2-26 IN 49T-6A ONLY.
- ③ IN THE 49T-6 J1-55 IS CONNECTED TO P1-12 ONLY. IN THE 49T-6A J1-55 IS CONNECTED TO P1-11 ONLY.
- ④ FOR 618S TO 618T-2 RETROFIT INSTALLATIONS WHERE CW OPERATION IS DESIRED, WIRES MUST BE ADDED FROM TBI801-5 TO PIN k AND FROM TBI801-20 TO PIN l WHICH FORMERLY MATED WITH THE 614C-2 CONNECTOR PLUG. A 440Q-3 ADAPTER CABLE MUST BE USED TO CONNECT THE 714E-3 CONTROL UNIT.

761-4439

618T-2 Airborne SSB Transceiver With 49T-6/6A Retrofit Adapter,
Interconnecting Wiring Diagram
Figure 416



MAINTENANCE MANUAL

EQUIPMENT	CONNECTOR	TYPE	MATING CONNECTOR
			COLLINS PART NO.
180L-2/3/3A	J101	UG-88/U	357-9018-00
	J102	SK-C16-23C-1/2 OR	371-0012-00
		SK-C16-23-1/2AC OR	371-3070-00
		SK-C16-21-1/2AC	371-3080-00
180R-4/4A	J1	MS90237-710B	375-9357-00
	J2	DM 9700-37S	371-5200-00
180R-6/6A/7	J1	UG-1213/U	357-9303-00
	J2	MS35170-260D	357-9341-00
	J3	PB06E-18-32S	371-1214-00
180R-12	J1	MS35313-573B	357-0008-00
	J7	MS24266-18-B-31S	359-4050-00
180R-17	J3	RF SPECIAL	
	P1	UG-1213/U	357-9303-00
	P2	K03-19-20SN-A 101	371-0087-00
199K-1/349F-5	J1	PB06E-12-105	371-1205-00
309A-1/1A	J1	UG-627/U, TYPE C	357-9174-00
	J2	UG-88E/U, BNC	357-9292-00
	J3	UG-88E/U, BNC	357-9292-00
	J5	DM 9700-37SW	371-5201-00
	J6	DM 9700-37S	371-5200-00
309A-2/2D	J1	MS35170-260D	357-9341-00
	J2/3/4	UG-88E/U	357-9292-00
	J5	PB06E-16-26S	371-1224-00
	J20	PB06E-18-32S	371-1214-00
309A-9	P1	DPX2-32S45S-33B-0201	370-5347-00
309A-9A	J1	UG-1213/U	357-9303-00
	J4	MS90237-710B	357-9357-00
	P1	DPA-32-33S	370-2137-00
309C-1/4/6	(SEE 790Z-1/4/6)		
314S-4	P1	NK-27-21C-11/16-2	371-4020-00
390J-4	J1	PT06A-16-26S SR	371-2461-00
	J2	PT06A-20-39S SR	371-6204-00
	J3	MS3102A-24-9S	357-3666-010
399V-1	J1	UG-573/U	357-9131-00
	J2	UG-573/U	357-9131-00
	J3	MS24266-R10-B5PN	359-4092-010
399W-1	J1	UG-573/U	357-9131-00
	J2	UG-573/U	357-9131-00
	J3	MS24266-R10-B5PN	359-4092-010
	J4	UG-260/L	357-9028-00
437R-1	J1	PT06A-14-19S (SR)	371-8087-00
452A-1/1()	J1/3	DM 9702-7SW	371-5275-00
	J2/4	UG-627/U,	357-9174-00
490R-1/4/6	J2	PT06A-22-55S (SR)	371-6225-00
	J4	UG-790B/U	357-9167-00
	RF OUTPUT	SPECIAL	SPECIAL
490T-1/2	J1	MS3116E-16-26S	371-2227-00
	J2	MS35315-573B	357-0008-00
	J103	UG-88E/U	357-9292-00
490T-1A	J1	MS3116E-16-26S	371-2227-00
	J2	MS35315-573B	357-0008-00

TP1-8586-021

Universal Mating Connector Chart (Sheet 1 of 2)
Figure 417

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Page 429



EQUIPMENT	CONNECTOR	MATING CONNECTOR	
		TYPE	COLLINS PART NO.
490T-4	J1	MS3116E-16-26S	371-2227-00
	J2/15	MS35315-573B	357-0008-00
490T-9	J103	UG-88E/U	357-9292-00
	P101	49190	357-9014-00
	P102	SKC16-23-1-2ACAN	371-3070-00
548D-3/4	J1	UG-88E/U	357-9292-00
	J8	PB06E-22-55S	371-1219-00
	J9	UG-1213/U	357-9303-00
614C-2	J2601	MS3106A-28-15S	357-4065-00
614Q-3	J1	PB06E-22-55S	371-1219-00
618C-3	J1	PB06E-22-55S	371-1219-00
	J24	UG-88E/U	357-9292-00
	J25	UG-88E/U	357-9292-00
618S-1/4	J109	UG-21B/U	357-9040-00
	J110	UG-21B/U	357-9040-00
618T-()	J3	UG-536A/U	357-9535-00
	J4	UG-21B/U	357-9040-00
	J40	DPE-60-33S-A 101	370-2141-00
714E-1/2/2()	J1	MS3106A-28-15S	357-4065-00
714E-3/3()/6/6()	J1	PT06A-20-39S (SR)	371-6204-00
718T-6 (SEE ALSO 390J-4)	J1/2	UG-1185A/U	357-9326-00
790Z-1/4/6	J6	MS3116F-22-55P	371-6474-00
	J7	MS3116F-18-32S	371-6330-00
	J8	MS3116F-10-6S	371-8285-00
C-1939/ARC-58	J1	PB06E-22-55S OR	371-1219-00
		PB06A-22-55S	371-1256-00
R-761/ARC-58	J1	PB06E-22-55S	371-1219-00
	J24/25	UG-88/U	357-9018-00
T-605/ARC-58	J8	PB06E-22-55S	371-1219-00
	J9	UG-1213/U	357-9303-00
	J1	UG-88E/U	357-9292-00

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Universal Mating Connector Chart (Sheet 2 of 2)
Figure 417



FUNCTION	618T-() ON 390J SHOCKMOUNT JI	714E-1 JI	714E-2/2() JI	714E-3/3() JI	714E-6/6() JI
0.1 KHZ FREQ WIRE R	20				W
0.1 KHZ FREQ WIRE S	21				X
0.1 KHZ FREQ WIRE T	22				k
0.1 KHZ FREQ WIRE U	23				J
1 MHZ FREQ WIRE A	32	U	U	A	A
1 MHZ FREQ WIRE B	33	T	T	B	B
1 MHZ FREQ WIRE C	34	S	S	C	C
1 MHZ FREQ WIRE D	35	R	R	D	D
1 MHZ FREQ WIRE E	36	K	K	E	E
1 KHZ FREQ WIRE F	38	Y	Y	F	F
1 KHZ FREQ WIRE G	39	M	M	G	G
1 KHZ FREQ WIRE H	40	L	L	H	H
1 KHZ FREQ WIRE I	41	G	G	I	I
100 KHZ FREQ WIRE J	45	P	P	J	J
100 KHZ FREQ WIRE K	46	J	J	K	K
100 KHZ FREQ WIRE L	47	F	F	L	L
100 KHZ FREQ WIRE M	48	C	C	M	M
10 KHZ FREQ WIRE N	49	N	N	N	N
10 KHZ FREQ WIRE O	50	H	H	O	O
10 KHZ FREQ WIRE P	51	E	E	P	P
10 KHZ FREQ WIRE Q	52	D	D	Q	Q
LSB/USB SELECTOR	24	d	W	I	T
SB/AM SELECTOR	25	w	f	V	V
POWER ON	59	c	Z	U	U
RF SENSITIVITY/SQUELCH	30	V	V	Z	Z
AUDIO IN DATA (HOT)	37				
AUDIO IN DATA (COLD)	53				
MIKE AUDIO	54				
CHASSIS GROUND	18				
AF OUT COLD	57				
AF OUT HOT	58				

TO AIRCRAFT DATA, TWISTED SHIELDED PAIR (3)
 TO AIRCRAFT MIKE, TWISTED SHIELDED PAIR (4)
 TO AIRCRAFT AUDIO, TWISTED SHIELDED PAIR

NOTES:

- (1) FOR A TOTAL SYSTEM, USE THE PARTICULAR CONTROL AND THE PARTICULAR 618T CONNECTIONS ON THIS DRAWING, PLUS THE CONNECTIONS SHOWN ON THE PARTICULAR ANTENNA COUPLER DRAWING.
- (2) WIRE SIZE NUMBER 22 AWG. FOR ALL WIRES.
- (3) PINS 53 AND 37 MAY BE EMPLOYED AS BALANCED INPUT FROM INTERPHONE AMPLIFIER. IN THIS CASE THE WIRE ON PIN 54 SHOULD NOT BE CONNECTED. IF AN UNBALANCED CARBON MIKE INPUT IS DESIRED, THE WIRES TO PINS 53 AND 37 SHOULD NOT BE CONNECTED.
- (4) WHEN THE UNBALANCED CARBON MIKE INPUT IS USED THE MIKE RETURN CIRCUIT SHOULD BE CONNECTED TO PIN 18 ON THE 618T. IT IS RECOMMENDED THAT NO GROUNDS EXTERNAL TO THE 618T CHASSIS BE PLACED ON THIS LINE.

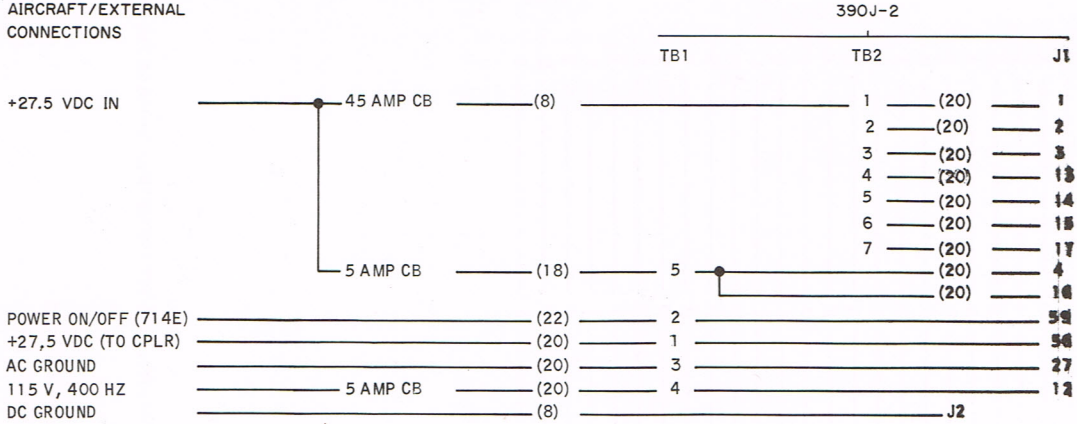
618T-() and 714E-(), Universal Interconnecting Wiring Diagram
Figure 418



MAINTENANCE MANUAL

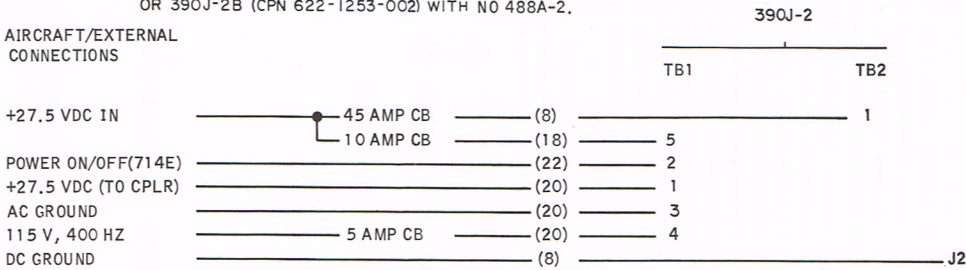
618T-3/3B AND 390J-2 (CPN 522-3353-057) WITH NO 488A-()
OR 390J-2B (CPN 622-1253-004) WITH NO 488A-2A.

AIRCRAFT/EXTERNAL
CONNECTIONS



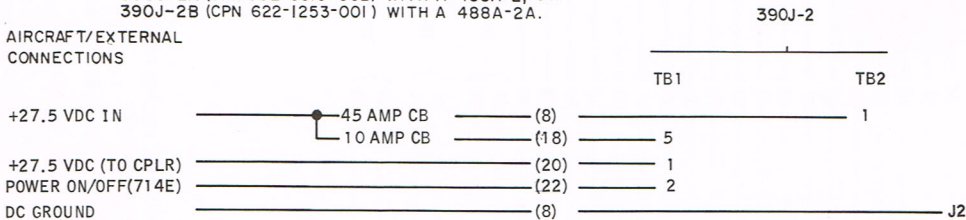
618T-3/3B AND 390J-2 (CPN 522-3353-055) WITH NO 488A-2
390J-2A (CPN 792-6315-001) WITH NO 488A-2,
OR 390J-2B (CPN 622-1253-002) WITH NO 488A-2.

AIRCRAFT/EXTERNAL
CONNECTIONS



618T-3/3B AND 390J-2 (CPN 522-3353-005, 045, AND 056) WITH A 488A-()
390J-2A (CPN 792-6315-002) WITH A 488A-2, OR
390J-2B (CPN 622-1253-001) WITH A 488A-2A.

AIRCRAFT/EXTERNAL
CONNECTIONS



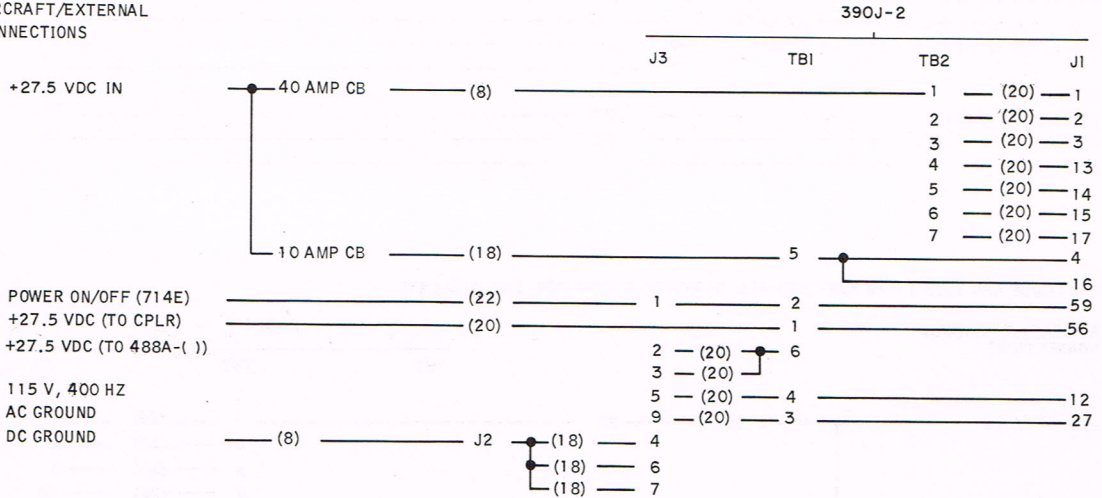
TP2-1250-034

Recommended Primary Power Wiring for 390J-() Shockmounts and
618T-() Transceivers
Figure 419 (Sheet 1 of 3)



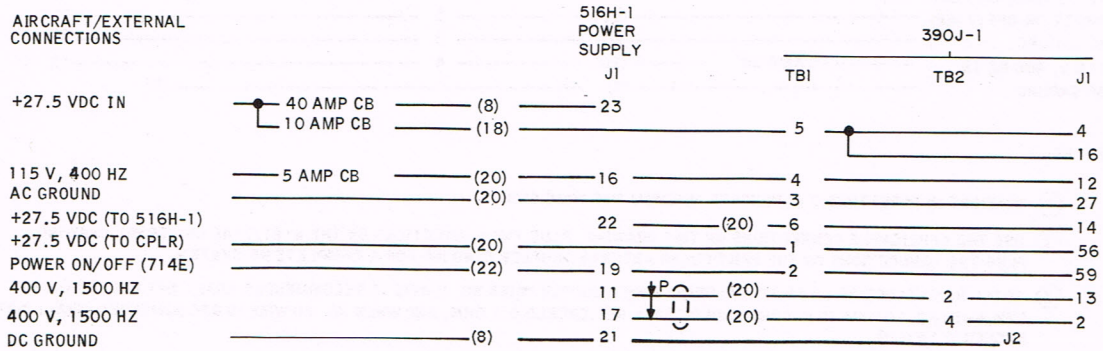
618T-3/3B AND 390J-2 (CPN 522-3353-015, 025, 035, 058, AND 059) WITH A 488A-() INSTALLATION KIT 554-5374-003 MUST BE USED, OR 390J-2B (CPN 622-1253-002) WITH A 488-2A. INSTALLATION KIT 554-5374-000 MUST BE USED. 390J-2 CONNECTORS J1, J2 AND J3 ARE PART OF THESE KITS.

AIRCRAFT/EXTERNAL CONNECTIONS



618T-1/1B AND 390J-1 (CPN 522-1658-034,042,AND 043)

AIRCRAFT/EXTERNAL CONNECTIONS



TP2-1250-034

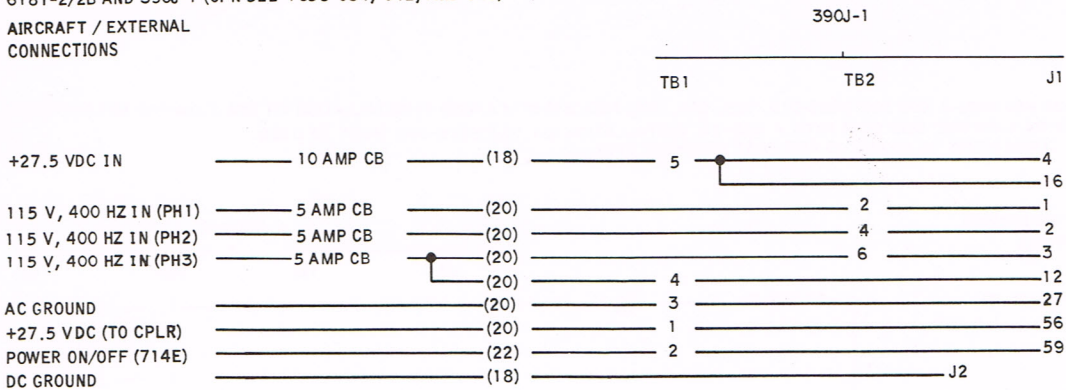
Recommended Primary Power Wiring for 390J-() Shockmounts and 618T-() Transceivers
Figure 419 (Sheet 2)



MAINTENANCE MANUAL

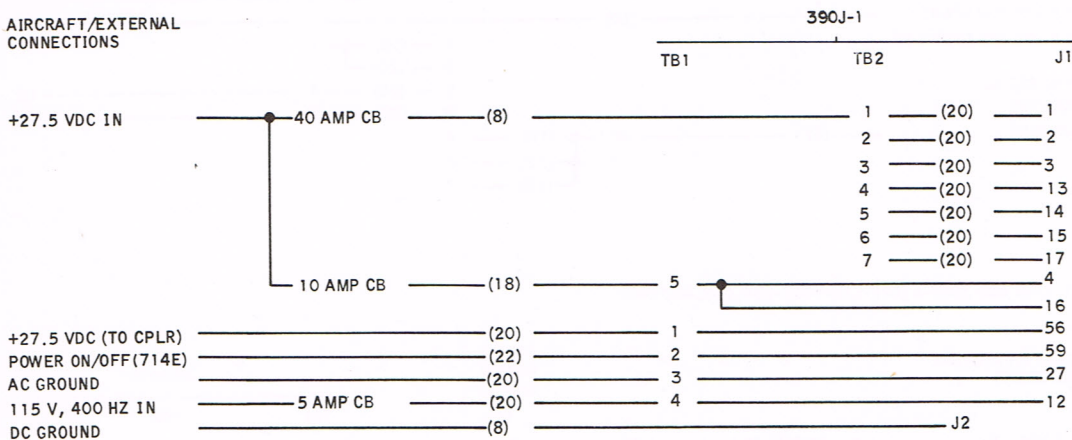
618T-2/2B AND 390J-1 (CPN 522-1658-034, 042, AND 043)

AIRCRAFT / EXTERNAL
CONNECTIONS



618T-3/3B AND 390J-1 (CPN 522-1568-ALL STATUSES EXCEPT 034, 042, AND 043)

AIRCRAFT/EXTERNAL
CONNECTIONS



NOTES:

- ① NUMBERS IN PARENTHESIS () INDICATE MINIMUM AWG WIRE SIZE.
- ② USE THE APPLICABLE CONNECTIONS ON THIS DRAWING, PLUS THE CONNECTIONS ON THE 618T/714E UNIVERSAL DRAWING, PLUS THE CONNECTIONS ON THE PARTICULAR ANTENNA COUPLER DRAWING FOR A COMPLETE HF SYSTEM.
- ③ TOTAL RESISTANCE OF LINES TO AND FROM POWER SUPPLY WHEN NO. 8 WIRE IS RECOMMENDED SHALL NOT EXCEED 0.015 OHM, WHEN NO. 18 WIRE IS RECOMMENDED SHALL NOT EXCEED 0.1 OHM, AND WHEN NO. 20 WIRE IS RECOMMENDED SHALL NOT EXCEED 0.15 OHM.
- ④ CONNECTOR J1 OF 390J-1 AND 390J-2 MATES WITH 618T MAIN CONNECTOR.

TP2-1250-034

Recommended Primary Power Wiring for 390J-() Shockmounts and
618T-() Transceivers
Figure 419 (Sheet 3)



WIRE FUNCTION	309A-1/1A J5	180R-4/4A J2
HV ON-OFF	18	
INTLK RELAY GROUND	31	
POWER ON-OFF	11	**
GROUND	20	**
	J6	
SHIELD GROUND	33	33
SERVO GROUND	35	35
PHASING DISCR	37	37
LOADING DISCR	36	36
DISCR UNBALANCE	34	34
SWR METER	20	20
COIL A	3	3
TAP LIMIT	6	6
TAP HOME	11	11
COIL HOME	10	10
COIL B	7	7
TAP B	4	4
XMTR DISABLE	1	1
DC POWER	9	9
BLOWER POWER	2	2
CONTROL B	12	12
CONTROL C	13	13
CONTROL D	14	14
CAP HOME	8	8
AC POWER	16	16
TAP A	5	5
CONTROLLED DC	22	22
GROUND	17	17
TIME DELAY GROUND	18	**
CONTROL MOTOR GROUND	19	**

NOTES:

- ① WIRE SIZE NUMBER 22 AWG UNLESS OTHERWISE SPECIFIED BY A NUMBER IN PARENTHESES ().
- ② THE FOLLOWING SYMBOL(S) ARE USED ON THIS DRAWING:
** CONNECTIONS EXTERNAL TO THE HF SYSTEM
- ③ REFER TO SPECIFIC TRANSCEIVER/180R-4/309A-1 DRAWINGS FOR REMAINING SYSTEM CONNECTIONS.

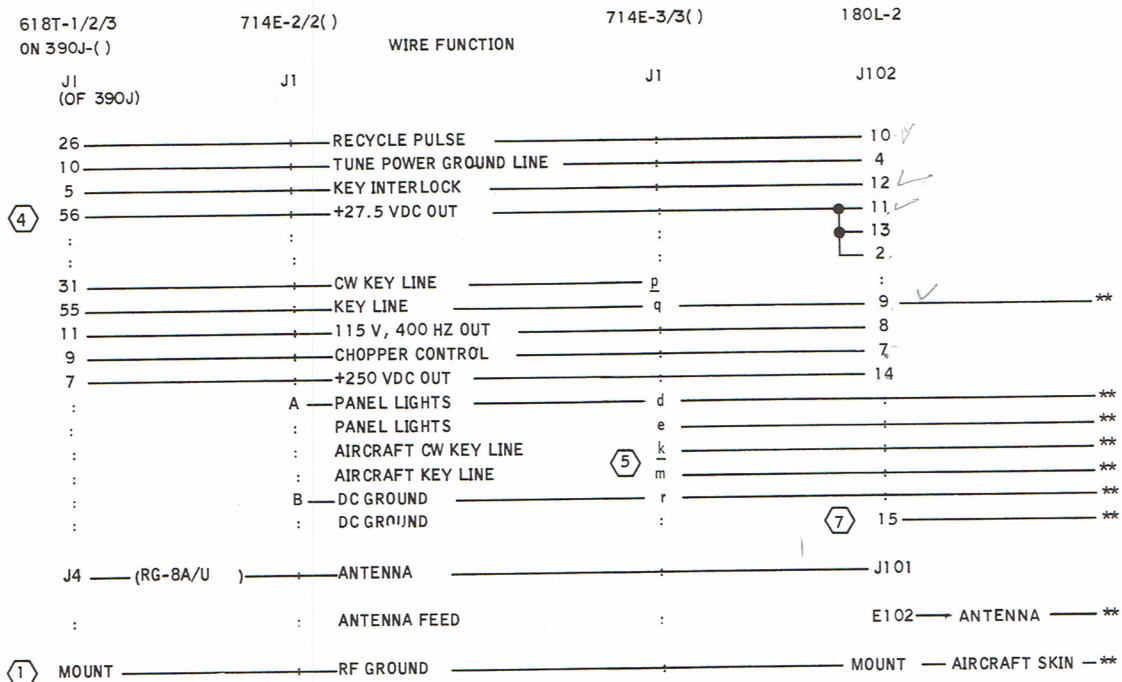
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180R-4/4A and 309A-1/1A, Universal Interconnecting Wiring Diagram
Figure 420

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NOTES:

- ① PROVIDE GOOD RF GROUND CIRCUIT TO AIRCRAFT BULKHEAD. USE FLEXIBLE SOLID OR ALUMINUM STRAPS OR VIBRATOR ISOLATOR BYPASS STRAP COLLINS PART NUMBER 548-1264-002.
- ② WIRE SIZE NUMBER 22 AWG UNLESS OTHERWISE SPECIFIED BY A NUMBER IN PARENTHESES ().
- ③ TERMINAL STRIPS ARE PROVIDED IN THE 390J SHOCKMOUNT TO BE USED FOR TIEPOINTS, SEE 618T/390J PRIMARY POWER DIAGRAM FOR PARTICULARS.
- ④ IF BENCH OPERATION WITHOUT AN ANTENNA TUNING IS DESIRED, PINS 5 AND 56 ON THE 618T-2 MUST BE CONNECTED TOGETHER TO COMPLETE THE KEY INTERLOCK CIRCUIT. DO NOT CONNECT PINS 5 OR 56 TO AN EXTERNAL DC POWER SOURCE.
- ⑤ IF A SEPARATE CW KEY IS NOT PROVIDED, 714E-3/3() PINS k AND m MUST BE JUMPED FOR CW OPERATION.
- ⑥ SYMBOLS USED ON THIS DRAWING ARE AS FOLLOWS: ** CONNECTIONS EXTERNAL TO THE HF SYSTEM
- ⑦ CONNECT REMOTE TUNE INDICATORS BETWEEN GROUND (J102-15) AND SWITCHED +27.5 VDC (J102-1,3) ON THE 180L-2.
- ⑧ REFER TO 618T-() UNIVERSAL DRAWING AND 618T/390J PRIMARY POWER DIAGRAM FOR REMAINING SYSTEM CONNECTIONS.

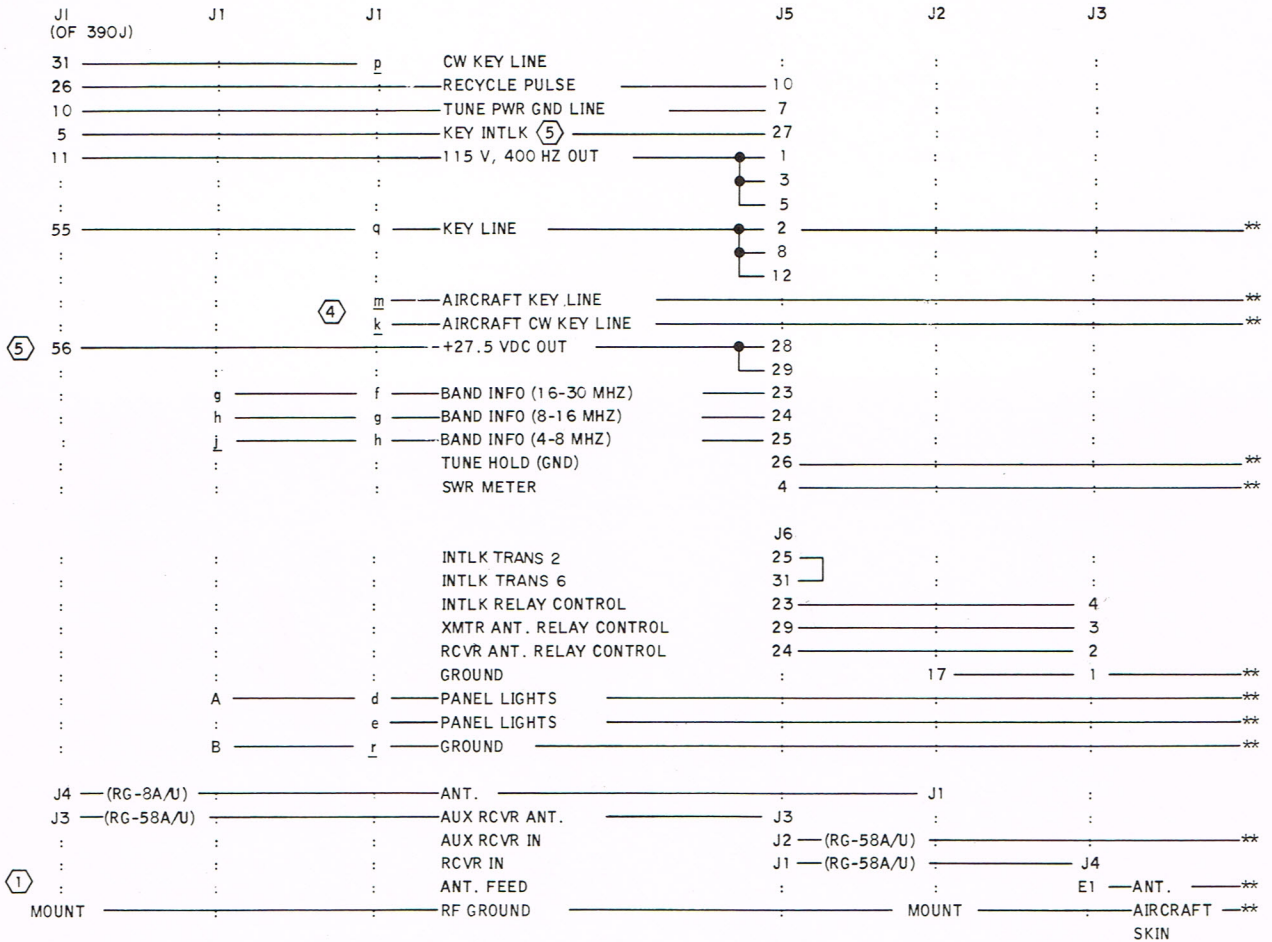
TPI-7316-014

618T-(), 714E-(), and 180L-2, Interconnecting Wiring Diagram
Figure 421



MAINTENANCE MANUAL

618T-1/2/3 714E-2/2() 714E-3/3() WIRE FUNCTION 309A-1/1A 180R-4/4A 452A-()
ON 390J-()



NOTES:

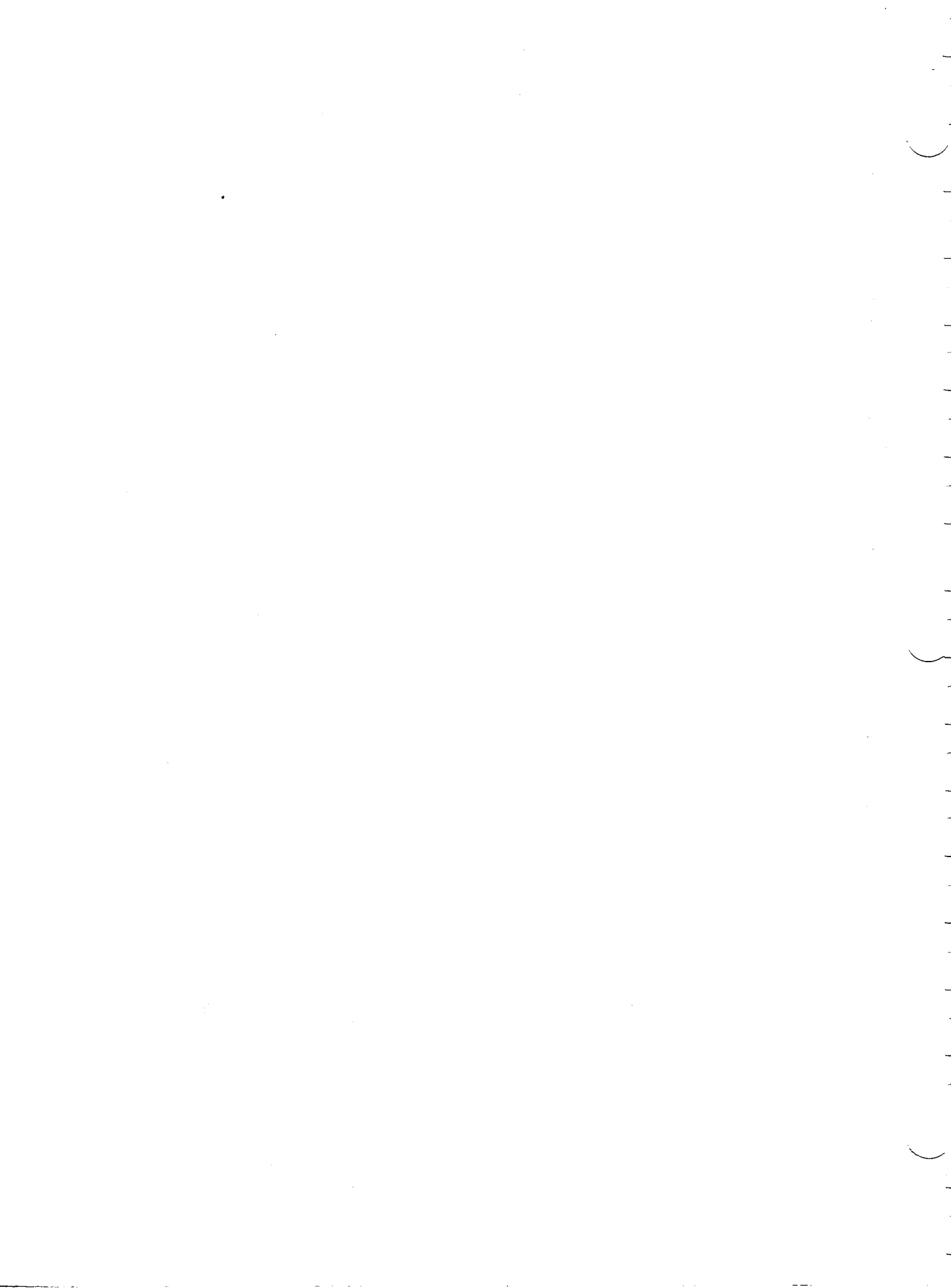
- (1) PROVIDE GOOD RF GROUND CIRCUIT TO AIRCRAFT BULKHEAD USE FLEXIBLE SOLID COPPER OR ALUMINUM STRAP OR VIBRATOR ISOLATOR BYPASS STRAP COLLINS PART NUMBER 548-1264-002.
- (2) WIRE SIZE NUMBER 22 AWG UNLESS OTHERWISE SPECIFIED BY A NUMBER IN PARENTHESES ().
- (3) TERMINAL STRIPS ARE PROVIDED IN THE 390J SHOCKMOUNT THAT CAN BE USED FOR TIE POINTS. SEE 618T/390J PRIMARY POWER DIAGRAM FOR PARTICULARS.
- (4) IF A SEPARATE CW KEY LINE IS NOT PROVIDED IN THE AIRCRAFT, 714E-3 PINS k AND m MUST BE JUMPED TOGETHER BY AIRCRAFT WIRING FOR CW OPERATION.
- (5) IF BENCH OPERATION WITHOUT AN ANTENNA TUNING UNIT IS DESIRED, PINS 5 AND 56 ON THE 618T-2 MUST BE CONNECTED TOGETHER TO COMPLETE THE KEY INTERLOCK CIRCUIT. DO NOT CONNECT PINS 5 OR 56 TO AN EXTERNAL DC POWER SOURCE.
- (6) SYMBOLS USED ON THIS DRAWING ARE AS FOLLOWS:
(18) MIN AWG WIRE SIZE
** CONNECTIONS EXTERNAL TO THE HF SYSTEM
- (7) REFER TO 618T-(), 180R-4/309A-1 AND 618T/390J, UNIVERSAL DRAWINGS PRIMARY POWER DIAGRAM FOR REMAINING SYSTEM CONNECTIONS.

TPI-7317-013

618T-(), 714E-(), 180R-4/4A, 309A-1/1A, and 452A-1/1A/1C,
Interconnecting Wiring Diagram
Figure 422

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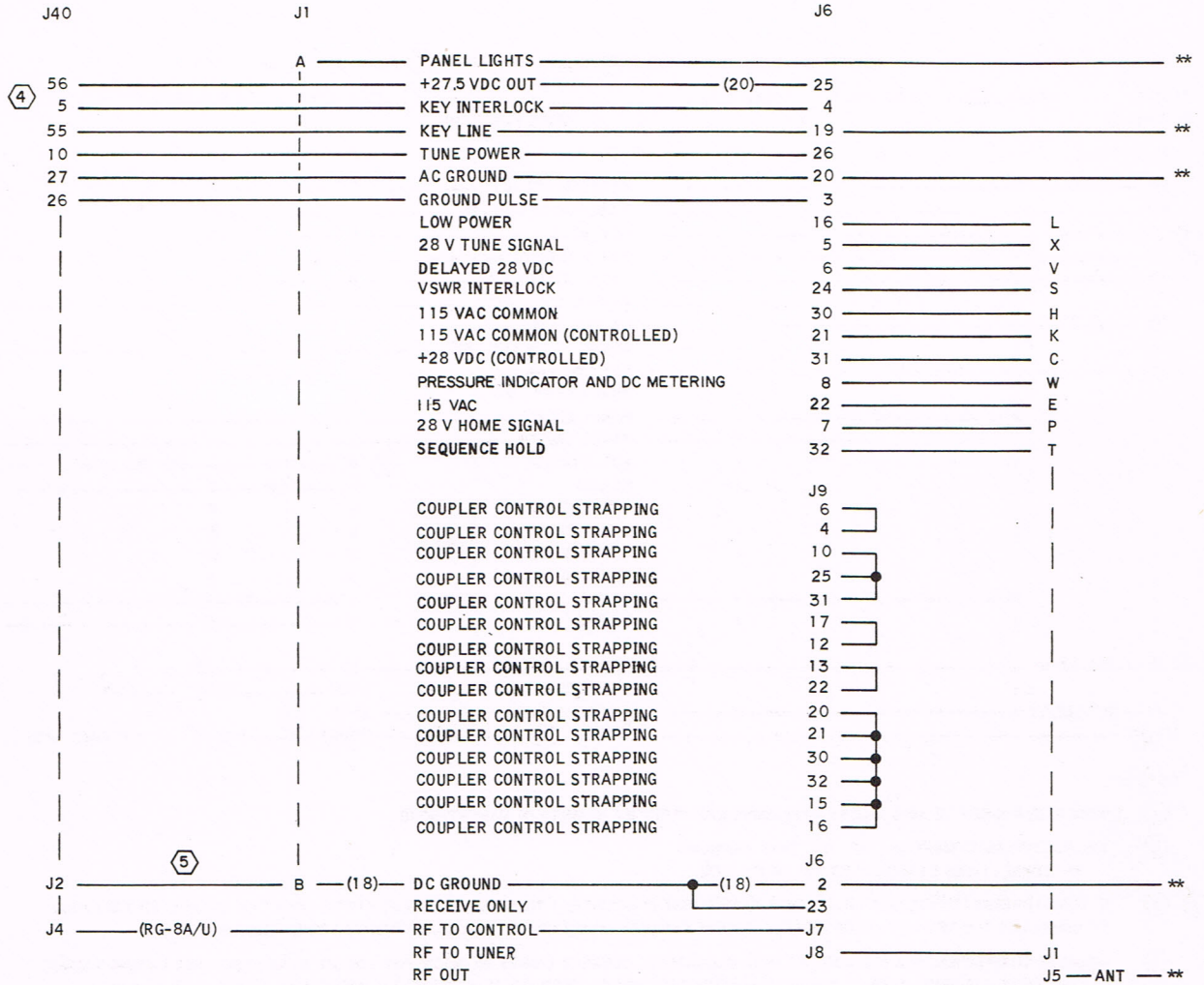
618T-2
HF TRANSCEIVER
MOUNTED ON THE
390J-() SHOCKMOUNT

714E-2
RADIO SET
CONTROL

WIRE FUNCTION

REMINGTON
RAND
CONTROL

REMINGTON
RAND
TUNER



NOTES:

- ① UNLESS OTHERWISE INDICATED, NO. 22 WIRE SIZE IS USED.
- ② SYMBOLS USED ON THIS DRAWING ARE AS FOLLOWS:
** CONNECTIONS EXTERNAL TO THE HF SYSTEM. (20) MIN AWG WIRE SIZE
- ③ PROVIDE GOOD RF GROUND CIRCUIT TO AIRCRAFT BULKHEAD. USE FLEXIBLE SOLID COPPER OR ALUMINUM STRAP OR VIBRATION ISOLATOR BYPASS STRAP COLLINS PART NUMBER 548-1264-002.
- ④ IF BENCH OPERATION WITHOUT AN ANTENNA TUNING UNIT IS DESIRED, PINS 5 AND 56 ON THE 618T-() MUST BE CONNECTED TOGETHER TO COMPLETE THE KEY INTERLOCK CIRCUIT. DO NOT CONNECT PINS 5 OR 56 TO AN EXTERNAL DC POWER SOURCE.
- ⑤ TOTAL RESISTANCE OF POWER LINES TO AND FROM THE POWER SUPPLIES SHALL NOT EXCEED 0.15 OHMS, AND NO. 18 WIRE SHALL BE THE MINIMUM SIZE USED.
- ⑥ REFER TO 618T-() UNIVERSAL DRAWING AND 618T/390J PRIMARY POWER DIAGRAM FOR REMAINING SYSTEM CONNECTIONS.

TP2-1229-014

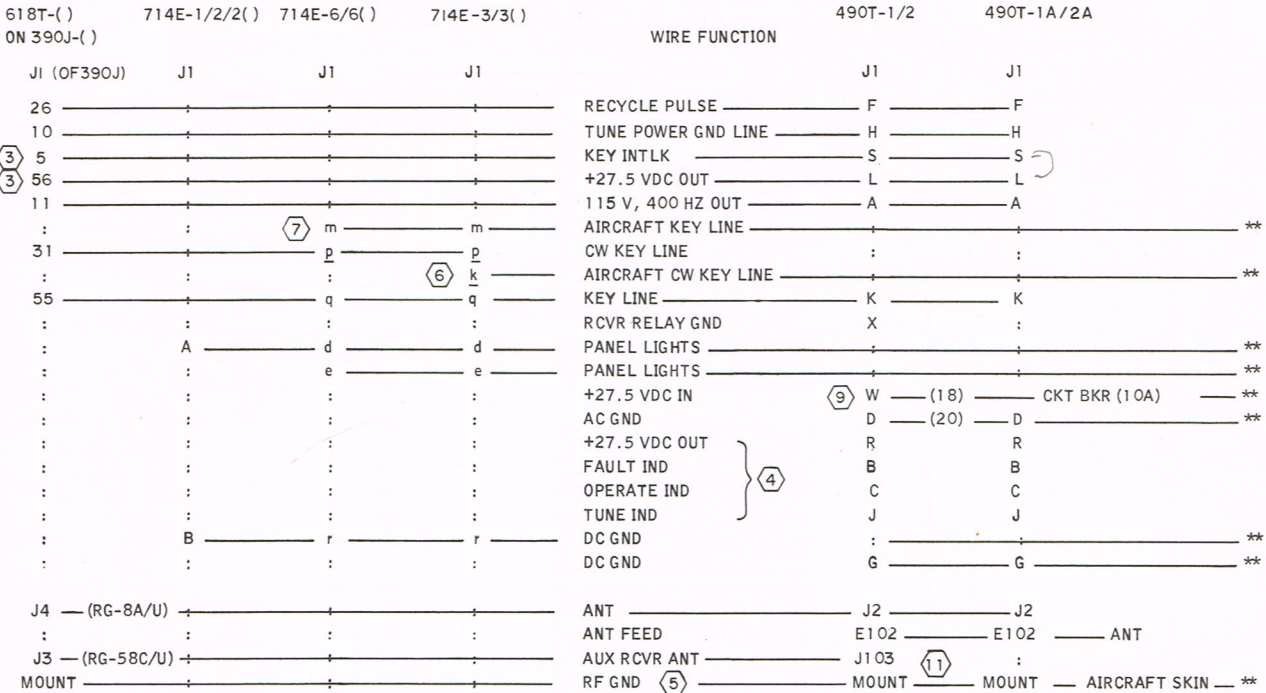
618T-2, 714E-2, Remington Rand Control, and Remington Rand Tuner,
Interconnect Wiring Diagram

Figure 425



MAINTENANCE MANUAL

IMPORTANT: READ ALL NOTES CAREFULLY. NUMBERS IN APPLY TO SPECIAL NOTES.



NOTES:

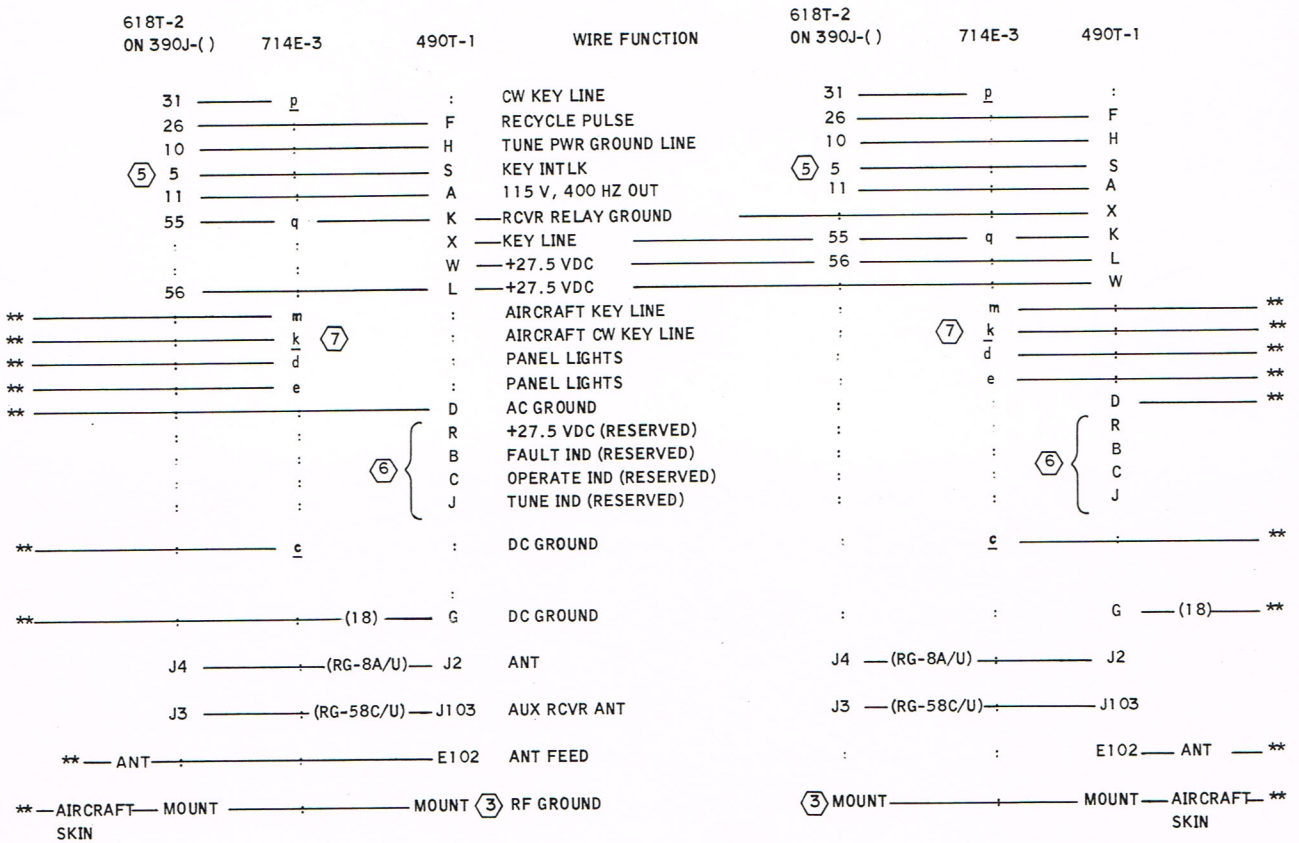
- WIRE SIZE NUMBER 22 AWG UNLESS OTHERWISE SPECIFIED BY NUMBER IN PARENTHESIS.
- THE FOLLOWING SYMBOL IS USED ON THIS DRAWING:
** CONNECTIONS EXTERNAL TO THE HF SYSTEM
- IF BENCH OPERATION WITHOUT AN ANTENNA TUNING UNIT IS DESIRED, PINS 5 AND 56 ON THE 618T-() MUST BE CONNECTED TOGETHER TO COMPLETE THE KEY INTERLOCK CIRCUIT. DO NOT CONNECT PINS 5 OR 56 TO AN EXTERNAL DC POWER SOURCE.
- CONNECT TO OPTIONAL REMOTE 490T-() TUNE INDICATORS. CONNECT LIGHTS BETWEEN +28 VDC (J1-R) AND SWITCHED GROUNDS (J1-B, C, J) ON 490T-() DURING 490T-() TUNING J1-J GROUNDED, DURING OPERATE J1-C GROUNDED, AND DURING FAULT J1-B, C, J ARE GROUNDED.
- PROVIDE GOOD RF GROUND CIRCUIT TO AIRCRAFT BULKHEAD. USE FLEXIBLE SOLID COPPER OR ALUMINUM STRAP OR VIBRATOR ISOLATOR BYPASS STRAP COLLINS PART NUMBER 548-1264-002.
- IF A SEPARATE CW KEY LINE IS NOT PROVIDED IN THE AIRCRAFT, 714E-3/3() PINS k AND m MUST BE JUMPERED TOGETHER BY AIRCRAFT WIRING FOR CW OPERATION.
- IF A SEPARATE CW KEY LINE IS PROVIDED IN THE AIRCRAFT, IT MUST BE JUMPERED TO 714E-6/6() PIN m BY AIRCRAFT WIRING FOR CW OPERATION.
- REFER TO 618T-() UNIVERSAL DRAWING AND 618T/390J PRIMARY POWER DIAGRAM FOR REMAINING SYSTEM CONNECTIONS.
- 490T-1/2/2A PIN W MAY BE JUMPERED TO 490T-1/2/2A PIN L IN LIEN OF A SEPARATE +27.5 VDC SOURCE.
- 490T-2/2A MUST HAVE JUMPER BETWEEN PINS A AND V TO OPERATE BLOWER.
- J103 APPLIES TO 490T-1/2 ONLY.

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618T-(), 714E-(), and 490T-(),
Interconnect Wiring Diagram
Figure 426



IMPORTANT: READ ALL NOTES CAREFULLY. NUMBERS IN \square APPLY TO A SPECIFIC NOTE.



NOTES:

- \square 1 WIRE SIZE NUMBER 22 AWG UNLESS OTHERWISE SPECIFIED BY A NUMBER IN PARENTHESES ().
- \square 2 SYMBOLS USED ON THIS DRAWING ARE AS FOLLOWS:
** CONNECTIONS EXTERNAL TO THE HF SYSTEM
- \square 3 PROVIDE GOOD RF GROUND CIRCUIT TO AIRCRAFT BULKHEAD. USE FLEXIBLE SOLID COPPER OR ALUMINUM STRAP OR VIBRATOR ISOLATOR BYPASS STRAP COLLINS PART NUMBER 548-1264-002.
- \square 4 TERMINAL STRIPS ARE PROVIDED IN THE 390J SHOCKMOUNT TO BE USED FOR TIEPOINTS. SEE 618T/390J PRIMARY POWER DIAGRAM FOR PARTICULARS.
- \square 5 IF BENCH OPERATION WITHOUT AN ANTENNA TUNING UNIT IS DESIRED, PINS 5 AND 56 ON THE 618T-2 MUST BE CONNECTED TOGETHER TO COMPLETE THE KEY INTERLOCK CIRCUIT. DO NOT CONNECT PINS 5 OR 56 TO AN EXTERNAL DC POWER SOURCE.
- \square 6 CONNECT TO OPTIONAL REMOTE 490T-1 TUNE INDICATORS. CONNECT LIGHTS BETWEEN +28 VDC (J1-R) AND SWITCHED GROUNDS (J1-B, C, J) ON 490T-1. DURING 490T-1 TUNING J1-J GROUNDED, DURING OPERATE J1-C GROUNDED AND DURING FAULT J1-B, C, J GROUNDED
- \square 7 IF A SEPARATE CW KEY LINE IS NOT PROVIDED IN THE AIRCRAFT, 714E-3 PINS k AND m MUST BE JUMPERED TOGETHER BY AIRCRAFT WIRING FOR CW OPERATION.
- \square 8 REFER TO THE 618T-() UNIVERSAL DRAWING AND 618T/390J PRIMARY POWER DIAGRAM FOR THE REMAINING 618T/714E CONNECTIONS (BOTH UNITS).

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618T-2, 714E-3, and 490T-1 Dual System,
Interconnecting Wiring Diagram
Figure 427

