

# Figure 4-11I. Flexcomm II System Interconnect Drawing (Sheet 12 of 17) Dwg No. 152-140131, Rev. L

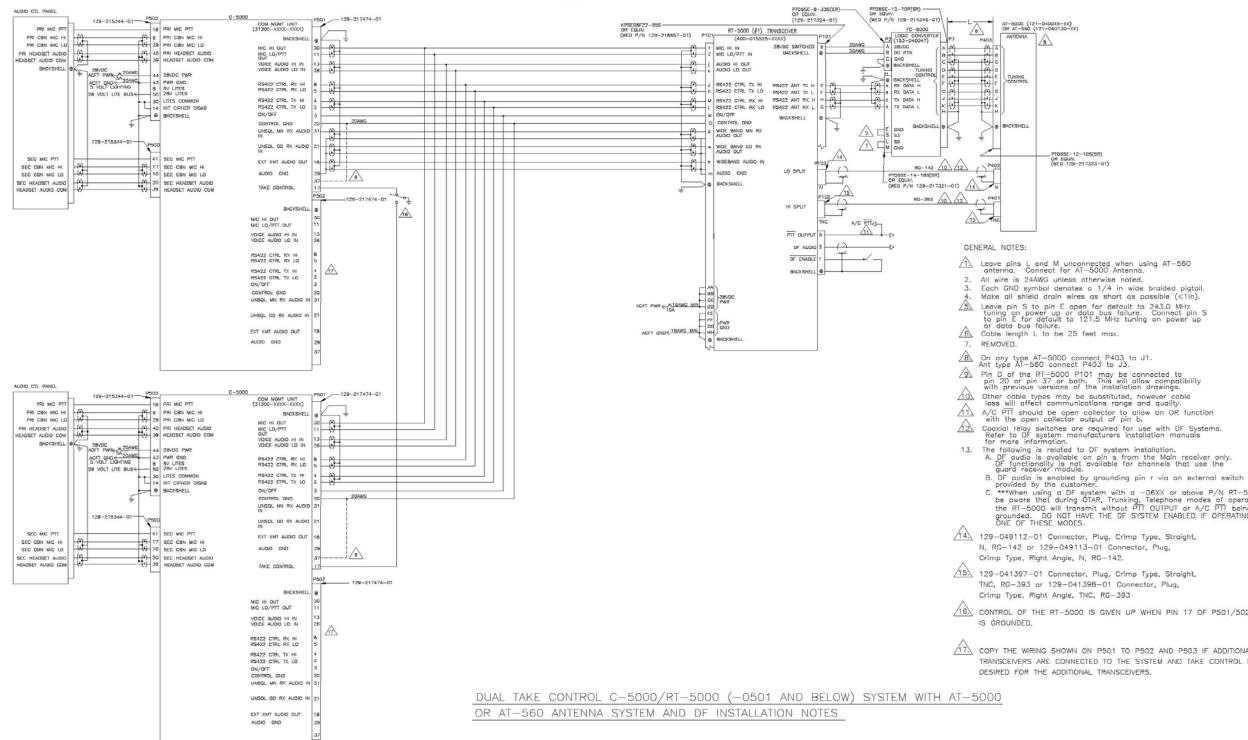
Section 4 – Electrical Installation

#### GENERAL NOTES:

- Leave pins L and M unconnected when using AT-560 antenna. Connect for AT-5000 Antenna.
   All wire is 24AWG unless otherwise noted.
- Each GND symbol denotes a 1/4 in wide braided pigtail. Make all shield drain wires as short as possible (<1in).
- Leave pin S to pin E open for default to 243.0 MHz tuning on power up or data bus failure. Connect pin S to pin E for default to 121.5 MHz tuning on power up or data bus failure. 6 Cable length L to be 25 feet max.
- REMOVED.
- On any type AT-5000 connect P403 to J1. Ant type AT-560 connect P403 to J3.
- Pin D of the RT-5000 P101 may be connected to pin 20 or pin 37 or both. This will allow compatibility with previous versions of the installation drawings.
- Other cable types may be substituted, however cable loss will affect communications range and quality.
- A/C PTT should be open collector to allow an OR function with the open collector output of pin b.
- Cooxial relay switches are required for use with DF Systems. Refer to DF system manufacturers installation manuals for more information.
- for more intermation. The following is related to DF system installation. A. DF audia is available on pin s from the Main receiver only. DF functionality is not available for channels that use the guard receiver module. B. DF audia is enabled by grounding pin r via an external switch provided by the customer. C. \*\*\*When using a DF system with a -06XX or above P/N RT-5000, be aware that during 0TAR, Trunking, Telephone modes of operation, the RT-5000 will transmit without PTT OUTPUT or A/C PTT being grounded. DO NOT HAVE THE DF SYSTEM ENABLED IF OPERATING ONE OF THESE MODES.
- 14. 129-049112-01 Connector, Plug, Crimp Type, Straight, N, RG-142 or 129-049113-01 Connector, Plug, Crimp Type, Right Angle, N, RG-142.
- 15. 129-041397-01 Connector, Plug, Crimp Type, Straight, TNC, RG-393 or 129-041398-01 Connector, Plug, Crimp Type, Right Angle, TNC, RG-393

C-5000 DUAL/RT-5000 (-0501 AND BELOW) SYSTEM WITH AT-5000 OR AT-560 ANTENNA SYSTEM AND DF INSTALLATION NOTES





# Figure 4-11m.Flexcomm II System Interconnect Drawing (Sheet 13 of 17) Dwg No. 152-140131, Rev. L

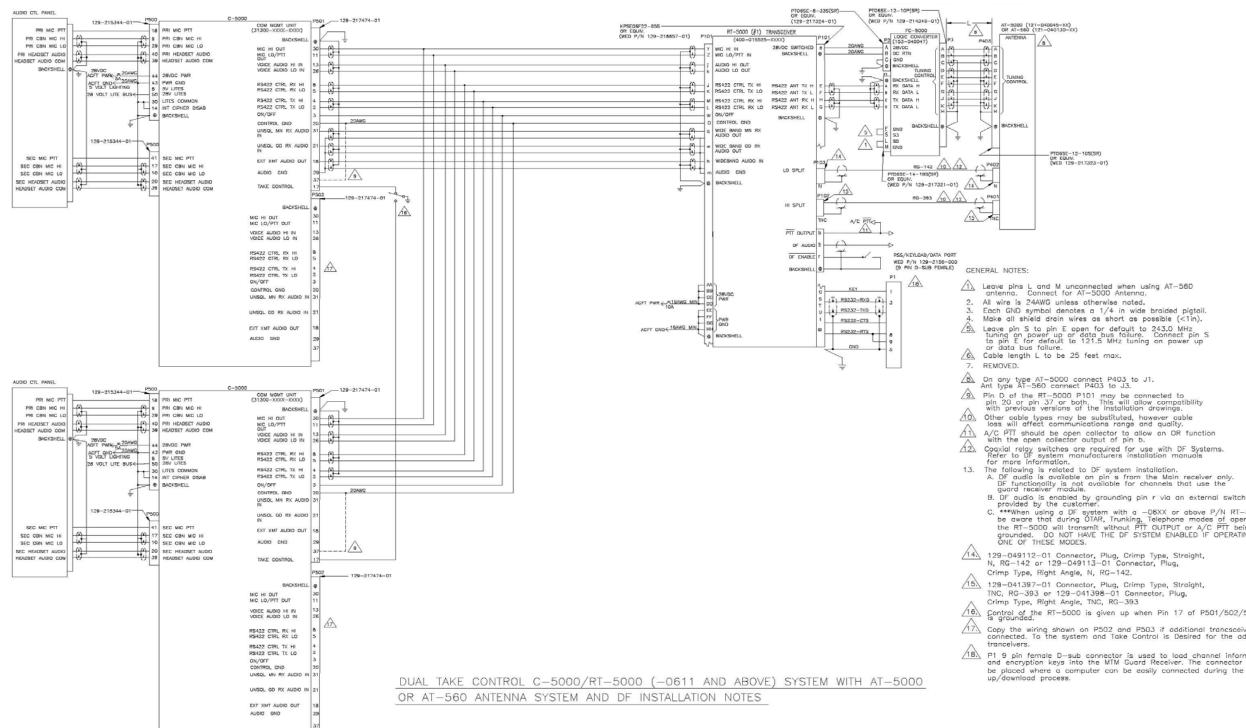
Section 4 – Electrical Installation

provided by the customer. \*\*\*When using a DF system with a -06XX or above P/N RT-5000, be aware that during OTAR, Trunking, Telephone modes of operation, the RT-5000 will transmit without PT OUTPUT or A/C PT being grounded. DO NOT HAVE THE DF SYSTEM ENABLED IF OPERATING ONE OF THESE MODES. 14. 129-049112-01 Connector, Plug, Crimp Type, Straight, N, RG-142 or 129-049113-01 Connector, Plug, 15. 129-041397-01 Connector, Plug, Crimp Type, Straight, TNC, RG-393 ar 129-041398-01 Connector, Plug, Crimp Type, Right Angle, TNC, RG-393 16. CONTROL OF THE RT-5000 IS GIVEN UP WHEN PIN 17 OF P501/502/503

17. COPY THE WIRING SHOWN ON P501 TO P502 AND P503 IF ADDITIONAL TRANSCEIVERS ARE CONNECTED TO THE SYSTEM AND TAKE CONTROL IS DESIRED FOR THE ADDITIONAL TRANSCEIVERS.

\_ PTO6SE-12-10S(SR) OR EQUIV. (WED 129-217323-01)



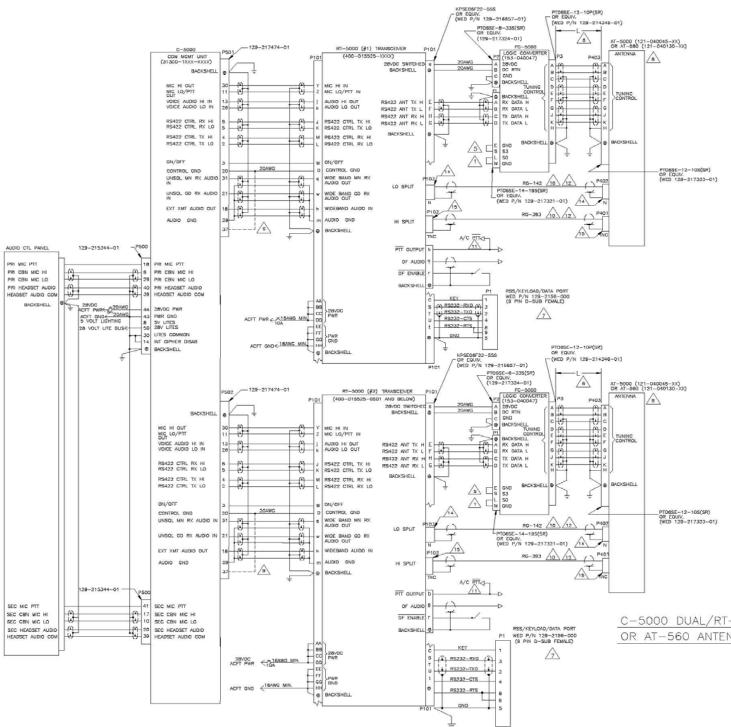


# Figure 4-11n. Flexcomm II System Interconnect Drawing (Sheet 14 of 17) Dwg No. 152-140131, Rev. L

A/C PTT should be open collector to allow an OR function
A/C PTT should be open collector output of pin b.
Coavial relay switches are required for use with DF Systems. Refer to DF system manufacturers installation manuals for more information.
The following is related to DF system installation.
A. DF audio is available on pin s from the Main receiver only. DF functionality is not available for channels that use the guard receiver madule.
B. DF audio is enabled by grounding pin r via an external switch provided by the customer.
C. \*\*\*When using a DF system with a -OBXX or above P/N RT-5000, be aware that during OTAR. Trunking, Telephone modes of operation, the RT-5000 will transmit without PT OUTPUT or A/C PTT being grounded. DO NOT HAVE THE DF SYSTEM ENABLED IF OPRATING ONE OF THESE MODES. 129-049112-01 Connector, Plug, Crimp Type, Straight, N, RG-142 or 129-049113-01 Connector, Plug, Crimp Type, Right Angle, N, RG-142. 15. 129-041397-01 Connector, Plug, Crimp Type, Straight, TNC, RG-393 or 129-041398-01 Connector, Plug, Crimp Type, Right Angle, TNC, RG-393 16. Control of the RT-5000 is given up when Pin 17 of P501/502/503 ▲ 17. Copy the wiring shown on P502 and P503 if additional transservers are connected. To the system and Take Control is Desired for the additional transervers. 18 P1 9 pin female D-sub connector is used to load channel information and encryption keys into the MTM Guard Receiver. The connector should

\_ PT06SE-12-10S(SR) OR EQUIV. (WED 129-217323-01)





# GENERAL NOTES:

- A Leave pins L and M unconnected when using AT-560 antenna. Connect for AT-5000 Antenna.
- antenna. Connect for AT-5000 Antenna.
   All wire is 24AWG unless otherwise noted.
   Each GND symbol denotes a 1/4 in wide braided pigtail.
   Make all shield drain wires as short as possible (<1in).</li>
   Leave pin S to pin E open for default to 243.0 MHz tuning on power up or data bus failure. Connect pin S to pin E for default to 121.5 MHz tuning on power up of data bus failure.
   Cable length L to be 25 feet max.

  - 7. P1 9 pin female D-sub connector is used to load channel information and encryption keys into the MTM Guard Receiver. The connector should be placed where a computer can be easily connected during the up/download process.
  - Ant type AT-5000 connect P403 to J1.
  - Ant type AI-bob connect From to to the 9. Pin D of the RT-5000 P101 may be connected to pin 20 or pin 37 or both. This will allow compat with previous versions of the installation drawings.

  - 10. Other cable types may be substituted, however cable loss will affect communications range and quality. A/C PT should be open collector to allow an OR function with the open collector output of pin b.
  - A
  - 12
  - With the open collector output of pin b.
     Coaxial relay switches are required for use with DF Systems.
     Refer to DF system manufacturers installation manuals for more information.
     The following is related to DF system installation.
     A. DF audio is available on pin s from the Main receiver only.
     DF functionality is not available for channels that use the guard receiver module. 13.

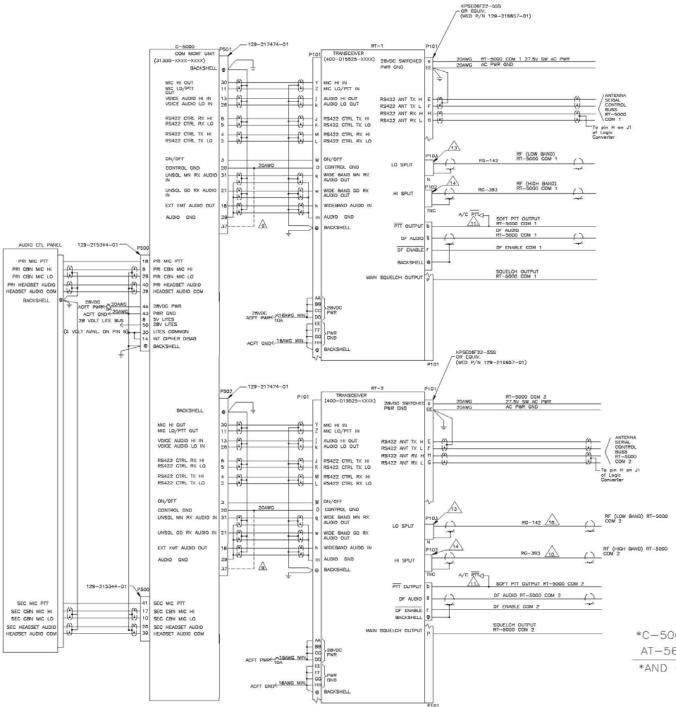
  - 14. 129-049112-01 Connector, Plug, Crimp Type, Straight,
  - N, RG-142 or 129-049113-01 Connector, Plug, Crimp Type, Right Angle, N, RG-142.
  - 15. 129-041397-01 Connector, Plug, Crimp Type, Straight, TNC, RG-393 or 129-041398-01 Connector, Plug, Crimp Type, Right Angle, TNC, RG-393

C-5000 DUAL/RT-5000 (-0611 AND ABOVE) SYSTEM WITH AT-5000 OR AT-560 ANTENNA SYSTEM AND DF INSTALLATION NOTES

## Figure 4-110. Flexcomm II System Interconnect Drawing (Sheet 15 of 17) Dwg No. 152-140131, Rev. L

guard receiver madule.
B. DF audio is enabled by grounding pin r via an external switch provided by the customer.
C. \*\*\*When using a DF system with a -06XX or above P/N RT-5000, be aware that during OTAR, Trunking, Telephone modes of operation, the RT-5000 will transmit without PTT OUTPUT or A/C PTT being grounded. DO NOT HAVE THE DF SYSTEM ENABLED IF OPERATING ONE OF THESE MODES.





 Leave pins L and M unconnected when using AT-560 antenna. Connect for AT-5000 Antenna.
 All wire is 24AWG unless otherwise nated. All wire is 2+4WG unless otherwise noted. Each GND symbol denotes a 1/4 in wide braided pigtail. Make all shield drain wires as short as possible (<1in). Leave pin 5 to pin 6 open for default to 243.0 MHz tuning an power up or data bus failure. Connect pin S to pin 6 for default to 121.5 MHz tuning an power up or blue failure of for the max. /5. 6. Cable length L to be 25 feet max. REMOVED. 8 On any type AT-5000 connect P403 to J1. Ant type AT-560 connect P403 to J3. Ant type AT-560 cannect P403 to J3.
 Pin D of the RT-5000 P101 may be connected to pin 20 or pin 37 or both. This will allow compatibility with previous versions of the installation drawings.
 Other cable types may be substituted, however cable loss will affect communications range and quality.
 A/C PTT should be open collector to allow an OR funct with the open collector output of pin b. This connection not required if the system is used with the Chelton 7-443 switch box. 12. The following is related to DF system installation guard receiver module. A. DF audio is available on pin s from the Main receiver only. DF functionality is not available for channels that use the provided by the customer. B. DF audio is enabled by grounding pin r via an external switch C. \*\*\*When using a DF system with a -06XX or above P/N RT-5000, be aware that during OTAR, Trunking, Telephone modes of operation, the RT-5000 will transmit without PTT OUTPUT or A/C PTT being grounded. DO NOT HAVE THE DF SYSTEM ENABLED IF OPERATING ONE OF THESE MODES. 13. 129-049112-01 Connector, Plug, Crimp Type, Straight, N, RG-142 or 129-049113-01 Connector, Plug, Crimp Type, Right Angle, N, RG-142.

GENERAL NOTES:

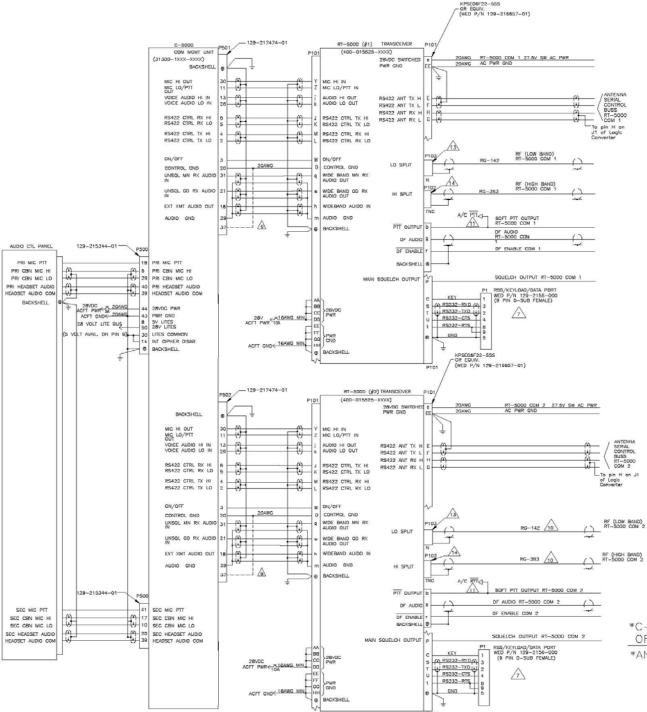
14. 129-041397-01 Connector, Plug, Crimp Type, Straight, TNC, RG-393 or 129-041398-01 Connector, Plug, Crimp Type, Right Angle, TNC, RG-393

\*C-5000 DUAL/RT-5000 (-0501 AND BELOW) SYSTEM WITH AT-5000 OR AT-560 ANTENNA SYSTEM

\*AND CHELTON DF SYSTEM USING 7-443 SWITCH BOX.

# Figure 4-11p. Flexcomm II System Interconnect Drawing (Sheet 16 of 17) Dwg No. 152-140131, Rev. L





#### GENERAL NOTES:

- 1. Leave pins L and M unconnected when using AT-560 antenna. Connect for AT-5000 Antenna.
- All wire is 24AWG unless otherwise noted. Each GND symbol denotes a 1/4 in wide braided pigtail. Make all shield drain wires as short as possible (<1in).
- Leave pin S to pin E open for default to 243.0 MHz tuning on power up or data bus failure. Connect pin S to pin E for default to 121.5 MHz tuning on power up or data bus failure.
   Cable length L to be 25 feet max.
- 27. P1 9 pin female D-sub connector is used to load channel information and encryption keys into the MTM Guard Receiver. The connector should be placed where a computer can be easily connected during the up/download process.
- 8. On any type AT-5000 connect P403 to J1. Ant type AT-560 connect P403 to J3.

- Ant type AT-560 connect P403 to J3. 9 Pin D of the RT-5000 P101 may be connected to pin 20 or pin 37 or both. This will allow compatibility with previous versions of the installation drawings. Other cable types may be substituted, however cable loss will affect communications range and quality. Anti A/C PTT should be open collector to allow an OR function with the open collector output of pin b. This connection in not required if the system is used with the Chelton 7-443 switch box.
- The following is related to DF system installation. guard receiver module. A. DF audio is available on pin s from the Main receiver only.
- DF functionality is not available for channels that use the provided by the customer. B. DF audio is enabled by grounding pin r via an external switch
- C. \*\*\*When using a DF system with a -O5XX or above P/N RT-5000, be aware that during OTAR, Trunking, Telephone modes of operation, the RT-5000 will transmit without PTT OUTPUT or A/C PTT being grounded. DO NOT HAVE THE DF SYSTEM ENABLED IF OPERATING ONE OF THESE MODES.
- 13 129-049112-01 Connector, Plug, Crimp Type, Straight, N, RG-142 or 129-049113-01 Connector, Plug, Crimp Type, Right Angle, N, RG-142.
- 14. 129-041397-01 Connector, Plug, Crimp Type, Straight, TNC, RG-393 or 129-041398-01 Connector, Plug, Crimp Type, Right Angle, TNC, RG-393

\*C-5000 DUAL/RT-5000 (-0611 AND ABOVE) SYSTEM WITH AT-5000 OR AT-560 ANTENNA SYSTEM

\*AND CHELTON DF SYSTEM USING 7-443 SWITCH BOX.

# Figure 4-11q. Flexcomm II System Interconnect Drawing (Sheet 17 of 17) Dwg No. 152-140131, Rev. L



NOTES:

- 1. ALL RT-138F AND RT-406F TRANSCEIVERS ARE INHERENTLY ENCRYPTION OR DIGITAL CODED SQUELCH COMPATIBLE. UNITS WITH A -05X PART NUMBER SUF-FIX ARE COMMONLY REFERRED TO AS ENCRYPTION COMPATIBLE DUE TO THE SPE-CIFIC WIRING CHANGES TO THE CHASSIS WHICH FACILITATES INSTALLATION WITH AN ENCRYPTION SYSTEM WIRED DIRECTLY TO THE RADIO. THE C-5000  $\,$ PROVIDES FOR SHARED ENCRYPTION WITH A SINGLE ENCRYPTION FUNCTION AT THE C-5000 AND RADIO UNIT SELECTION FROM THE C-5000. FOR THOSE IN-STALLATIONS, CONNECT STD (-00X) RADIO UNITS AS SHOWN IN POSITION 1 AND REFER TO THE C-5000 SYSTEM INTERCONNECT DIAGRAM 147-014995 FOR SPECIFIC DETAILS OF THE C-5000 INTERFACE TO ENCRYPTION EQUIPMENT.
- TRANSFER BETWEEN TRANSCEIVERS IS AUTOMATIC AND THE APPROPRIATE TRAN-SCEIVER WILL BE ACTIVE AS CONTROLLED BY THE BCD CHANNELLING FROM THE CONTROL UNIT. THE SYSTEM MAY NOT BE CONFIGURED WITH MORE THAN ONE (1) TRANSCEIVER OF THE SAME FREQUENCY RANGE. CONSULT GLOBAL-WULFSBERG CUSTOMER ENGINEERING WHEN USING AN RT-450 AND AN RT-406F IN THE SAME INSTALLATION
- SHOULD THE VHF AM RT-118 BE REQUIRED TO COVER THE FREQUENCY RANGE OF 118 TO 150 MHZ, BOTH THE RT-118 AND THE RT-138(F) MUST BE MODIFIED. CONSULT GLOBAL-WULFSBERG CUSTOMER ENGINEERING. A SEPARATE ANTENNA IS REQUIRED FOR EACH TRANSCEIVER
- REPEAT APPROPRIATE CONNECTIONS AS REQUIRED FOR ADDITIONAL ENCRYPTION OR NON-ENCRYPTION TRANSCEIVERS. DO NOT INTERCHANGE ENCRYPTION TRANS-CEIVERS AND NON-ENCRYPTIONS TRANSCEIVERS (-05X AND -00X) WITHIN THE WIRING HARNESS.
- 3. A COMMON APPROPRIATELY RATED CIRCUIT BREAKER MAY BE USED INSTEAD OF SEPARATE CIRCUIT BREAKERS.
- WIRE SIZE TO THE CIRCUIT BREAKER SHOULD BE CHANGED ACCORDINGLY. 4. GUARD RECEIVER AUDIO MAY BE TRANSFERRED FROM AN UNCHANNELED TRANS-
- CEIVER TO THE ACTIVE TRANSCEIVER BY CONNECTING TOGETHER THE GUARD AUDIO TRANSFER LINES AND THE GUARD SQUELCH CONTROL TRANSFER LINES AS AN EXAMPLE. THIS ALLOWS MONITORING A UHF GUARD CHANNEL WHILE A VHF CHANNEL IS SELECTED. CAUTION: IF TWO OR MORE TRANSCEIVERS ARE CONNECTED WITH COMMON
- GUARD AUDIO TRANSFER AND GUARD SQUELCH CONTROL TRANSFER LINES. ONLY ONE (1) TRANSCEIVER MAY HAVE A GUARD RECEIVER MODULE INSTALLED. IF MORE THAN ONE (1) TRANSCEIVER HAS A GUARD RECEIVER MODULE INSTALLED. THE GUARD TRANSFER LINES MUST BE LEFT UNCONNECTED TO THE ADDITIONAL TRANSCEIVERS WITH THE INSTALLED GUARD MODULE.
- RANSFER PINS ARE CONNECTED PER NOTE 4. THEN THE GUARD AUDIO INHIBIT PINS MUST ALSO BE PARALLEL CONNECTED.
- 6. ANTENNA CABLE PLUG CONNECTOR TYPE "N" MATES WITH TYPE "N" BULKHEAD JACK (FM TRANSCEIVERS), CABLE PLUG TYPE "BNC" MATES WITH TYPE "BNC" BULKHEAD JACK (AM TRANSCEIVERS).
- A) TYPE "N" CABLE PLUG FOR 58A/U -UG 536B/U OR EQUIVALENT. B) TYPE "N" CABLE PLUG FOR RG 8/U -U6 1185A OR EQUIVALENT.
- 7. PIN OUTS ARE PROVIDED FOR EXTERNAL CARRIER ENCODED SQUELCH DECODERS AND CARRIER ENCODERS. THE TX SWITCHED +V VDC OUTPUT WILL BE ACTIVE IN ALL UNITS DURING TRANSMIT. MULTIPLE NON-ENCRYPTION TRANSCEIVERS CAN UTILIZE A COMMON ENCODER BY PARALLEL CONNECTING THE EXTERNAL ENCODE IN LINES. DO NOT USE EXTERNAL ENCODERS/DECODERS WITH ENCRYPTION
- WHEN USING THE C-5000 ENCRYPTION OR ENCODE FUNCTIONS, AN RT-138F OR RT-4065 CAN BE CONNECTED FOR AUTO C-5000 R/T SELECTION. IF ENCRYPTION UNITS ARE INTERNAL OR EXTERNAL TO THE C-5000, THEN THE EXTERNAL EN-CODE INPUT MUST BE CONNECTED AT THE C-5000.
- 8. FM TRANSCEIVER CABLE PLUG TYPE BT06AC-24-61S OR EQUIVALENT MATES WITH BT02A24-61P. VHF AM TRANSCEIVER CABLE PLUG TYPE BT06AC-18-32S OR EQUIVALENT MATES WITH BT02A-18-32P. CONTROL HEAD CABLE PLUG TYPE P50X GWS P/N 129-215344-02 (POSITRONICS ODD62F00Y60C-914.2)
- THIS CONNECTOR HAS 1 EACH MALE/FEMALE JACK SCREW WITH MALE NEAR PIN 1. 9. ALL WIRE NO. 24 AWG OR GREATER UNLESS OTHERWISE INDICATED ANTENNA COAX CABLE RG 8, 8A, 8 FOAM, 58A, 58C 58A FOAM, OR
- EQUIVALENT 10. MOTOROLA, DVP/DES ARE REGISTERED TRADEMARKS OF MOTOROLA. INC.
- 11. GE,D.V.G. & VOICE GUARD ARE REGISTERED TRADEMARKS OF GENERAL ELECTRIC, INC.
- 12. SEE " INSTALLATION WIRING CONSIDERATIONS " SECTION OF INSTALLATION MANUAL FOR PERTINENT ADDITIONAL INFORMATION TO THIS DIAGRAM
- A3 PINS C. D. L. M. N. T. X OF P-210 ON FM TRANSCEIVERS HAVE BEEN RE-ASSIGNED IN -F MODEL TRANSCEIVERS (-05X). DO NOT INTERCHANGE -00X AND -X5X TRANSCEIVERS AS DAMAGE MAY RESULT. ONLY RT-406F'S AND FLAGETHERS AND RT-138F'S (400-014525-5X) TRANSCIVERS ARE CONFIG-URED FOR DIRECT MOTOROLA DVP/DES OR G.E. VOICE GUARD CONNECTIONS AS SHOWN. ALL RT-138F'S AND RT-406F'S ARE COMPATIBLE WITH ENCRYPTION OR DIGITAL CODED SQUELCH MODULATION SCHEMES, AN F MODEL RADIO (-00X) CAN BE CONNECTED AS SHOWN IN THE FIRST TRANSCEIVER POSITION AND UTILIZED WITH ENCRYPTION EQUIPMENT CONNECTED TO THE C-5000. (SEE INSTALLATION WIRING DIAGRAM 147-014995).

Figure 4-13a. FLEXCOMM I Transceivers Installation Wiring Diagram (Sheet 1 of 5) RT-30, RT-118, RT-138, RT-138F, RT-450 and RT-406F (Dwg No 147-014991, Rev B)

- (14) DVP/DES CONNECTORS. (MOTOROLA P/N'S 14-84556804 AND 14-84556816). THE 1.5K OHM 1/4W RESISTOR, AND THE 6.2V ZENER DIODE ARE CUSTOMER SUPPLIED. PIN T OF ENCRYPTION TRANSCEIVERS HAS BEEN REASSIGNED FOR ENCRYPTION USE. CONNECT ALL TRANSCEIVERS AS SHOWN. THIS DOES NOT AFFECT OPER-ATION OF STANDARD TRANSCEIVERS. WHEN INSTALLING MOTOROLA DVP/DES<sup>®</sup>UNITS WITH FLEXCOMM RADIOS CONSULT 100-014648 TECHNICAL CONSIDERATIONS DOCUMENT AND FLEXCOMM TECHNICAL UPDATES FOR ADDITIONAL INFORMATION REFER TO 147-0121-000 FOR EXISTING FLEXCOMM INSTALLATIONS.
- (6) GE VOICE GUARD INTERCONNECT FOR DEDICATED VOICE GUARD INSTALLATIONS.
- GE PALAIIUMS. GE PALAIIUMS. 19316781P4 CONTACTS 16 RED'D. 19316781P4 CONTACTS 16 RED'D. AZJ WHEN INSTALLING GE VOICE GUARD<sup>®</sup> UNITS WITH FLEXCOMM RADIOS. CONSULT 100-014716 TECHNICAL CONSIDERATIONS DOCUMENT AND THE FLEXCOMM TECH-NICAL UPDATES FOR ADDITIONAL INFORMATION.
- THE FC-1 WAS HIGHLY RECOMMENDED FOR FLEXCOMM INSTALLATIONS AND MAY REMAIN WHEN C-1000'S ARE REPLACED BY C-5000 CONTROL UNITS. HOWEVER. IT IS NOT NEEDED. THE SWITCHED 27.5VDC PRODUCED BY THE FC-1 MAY BE CONSIDERED FOR SUPPLYING THE C-5000 SYSTEM ALTHOUGH THE 27.5VDC AND GROUND INPUTS TO THE C-5000 ARE ON THE SYSTEM INTERFACE CONNECTOR P500 (SEE WIRING DIAGRAM 147-014995).
- 19. THIS WIRING DIAGRAM (147-014991) PERTAINS TO THE FLEXCOMM TRANS-CEIVER INTERFACE CONNECTOR P50X OF THE C-5000. SEE INTERCONNECT WIR-ING DIAGRAM 147-014995 FOR THE SYSTEM INTERFACE P500. A C-5000 CAN INCLUDE UP TO 3 AT INTERFACE TRANSCEIVER CONNECTIONS P50X (P501, P502, P503). SPECIAL MARKING OF THE CONNECTORS IS RECOMMENDED TO ASSURE PROPER MATING OF SYSTEM 1, 2, OR 3 CONNECTIONS.
- 20 THE "TAKE CONTROL" PIN IS NORMALLY OPEN CIRCUITED. IN A DUAL C-5000 SYSTEM, WIRE THE TRANSCEIVER INTERFACE IN PARALLEL TO BOTH C-5000 UNITS. CONNECT THE "TAKE CONTROL" PIN FROM EACH C-5000 TO A SWITCH SUCH THAT ONE OR THE OTHER C-5000 TRANSCEIVER IS ALWAYS SUPPLIED WITH A GROUND WHICH TAKES CONTROL AWAY FROM THE UNIT WITH THE GROUNDED PIN. WITH THREE TRANSCEIVER INTERFACES IN DUAL C-5000 SYSTEMS. 3 SEP-ARATE TAKE CONTROL SWITCHES ARE REQUIRED (ONE FOR EACH PAIR OF TRANS-
- CEIVER INTERFACES) THE ZEROIZE FUNCTION PROVIDES AN OUTPUT FROM THE C-5000 TO ENCRYP-TION EQUIPMENT TO ERASE KEY VARIABLES. THE OUTPUT CAN BE CONFIGURED ONE OF TWO WAYS: NORMALLY OPEN CIRCUIT WITH ACTIVE GROUND TO ZEROIZE OR NORMALLY OPEN AND ACTIVE 27.5VDC TO ZEROIZE. STANDARD CONFIG-URATION IS ACTIVE GROUND TO ZEROIZE. JUMPER A%JP1 ON THE RT INTERFACE BOARD CAN BE MOVED FROM "1 TO 2" TO "2 TO 3" TO YIELD ACTIVE 27.5VDC
- FOR ZEROIZE. 22. ONLY ONE UNSQUELCHED MAIN AUDIO INPUT MAY BE CONNECTED TO THE C-5000 AT ONE TIME



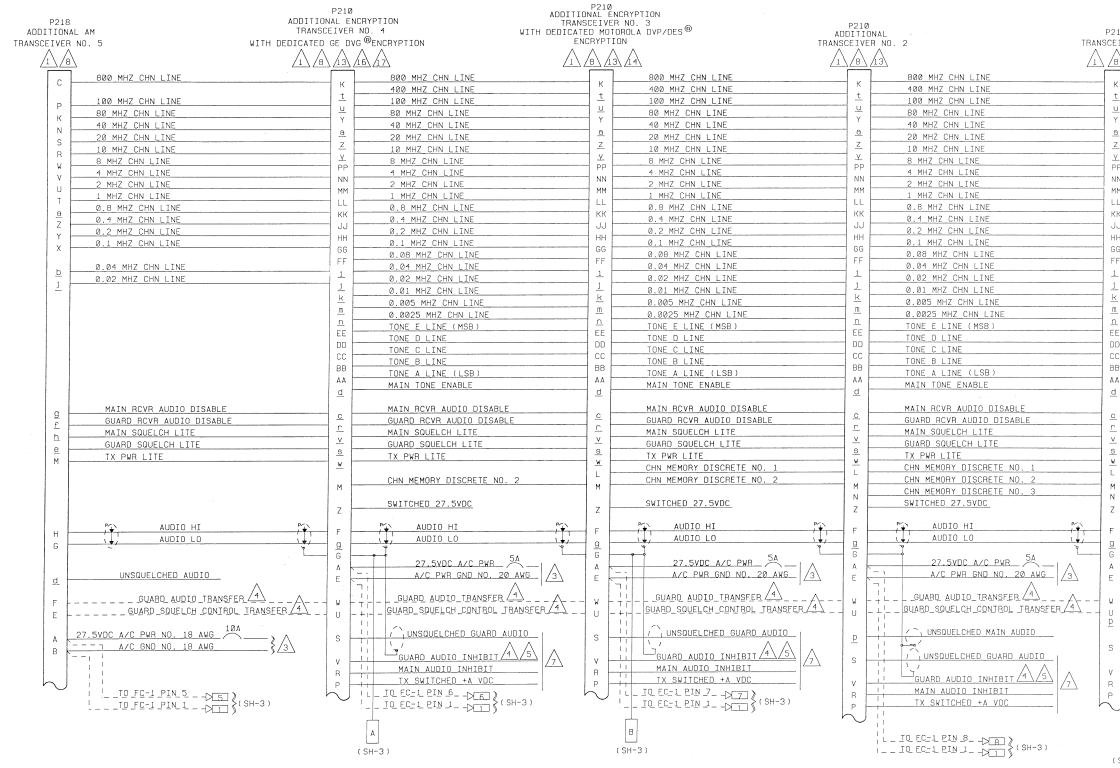


Figure 4-13b. FLEXCOMM I Transceivers Installation Wiring Diagram (Sheet 2 of 5) RT-30, RT-118, RT-138, RT-138F, RT-450 and RT-406F (Dwg No 147-014991, Rev B)

210 Eiver no. 1	P50X(P501.P502 OR P503) C-5000 CONTROL TRANSCEIVER SYSTEM 1.2 OR 3
	$\land \land$
8 /13	1 8
K 800 MHZ CHN LINE	51
+ 400 MHZ CHN LINE	28
I I I I I I I I I I I I I I I I I I I	27
Y 80 MHZ CHN LINE	5
40 MHZ CHN LINE	37
20 MHZ CHN LINE 2 10 MHZ CHN LINE	4
Y 8 MHZ CHN LINE	26
P 4 MHZ CHN LINE	31
NN 2 MHZ CHN LINE	32
1 MHZ CHN LINE	10
0.8 MHZ CHN LINE	
0.4 MHZ CHN LINE	55
JJ 0.2 MHZ CHN LINE	53
0.1 MHZ CHN LINE	49
GG 0.08 MHZ CHN LINE	3
0.04 MHZ CHN LINE	44
1 0.02 MHZ CHN LINE	57
	34
m 0.003 MHZ CHN LINE	35
0.0025 MHZ CHN LINE	9
F TUNE E LINE (MSB)	6
DD TONE D LINE	29
C TONE B LINE	1
BB TONE A LINE (LSB)	43
MAIN TONE ENABLE	12
<u> </u>	23
MAIN RCVR AUDIO DISABLE	
GUARD RCVR AUDIO DISABLE	13
MAIN SQUELCH LITE	58
GUARD SQUELCH LITE	48
TX PWR LITE	2
CHN MEMORY DISCRETE NU. 1	56
CHN MEMORY DISCRETE NO. 2	121
CHN MEMORY DISCRETE NU. 3	16
SWITCHED 27.5VDC	
AUDIO HI	P
AUDIO LO	61
	41
27.5VDC A/C PWR 54	
A/C PWR GND NO. 20 A	WG /3
	1
UNSQUELCHED MAIN AUDI	
	21
	TO PO
UNSQUELCHED GUARD AUD	10 / <b>†</b>   60
GUARD AUDIO INHIBIT 4	5 1 62
MAIN AUDIO INHIBIT	
TX_SWITCHED +A_VDC	$=   \langle z \rangle$
U   L _ IQ EC=1 PIN 9 - DG ( SH-	-3 )
с	

(SH-3)