

1. Leave pins L and M unconnected when using AT-550

2. All wire is 24AWG unless otherwise noted.

3. Each GND symbol denotes a 1/4 in wide braided pigtail. Make all shield drain wires as short as possible (<1in). 5. 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

6. Cable length L to be 25 feet max.

8. Audio panel connections are shown for demonstration only. Actual Audio panel pins will vary per each

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.

10. Other cable types may be substituted, however cable loss will affect communications range and quality.

11 129-049112-01 Connector, Plug, Crimp Type, Straight, N, RG-142 or 129-049113-01 Connector, Plug, Crimp Type, Right Angle, N, RG-142.

12. 129-041397-01 Connector, Plug, Crimp Type, Straight, TNC, RG-393 or 129-041398-01 Connector, Plug, Crimp Type, Right Angle, TNC, RG-393



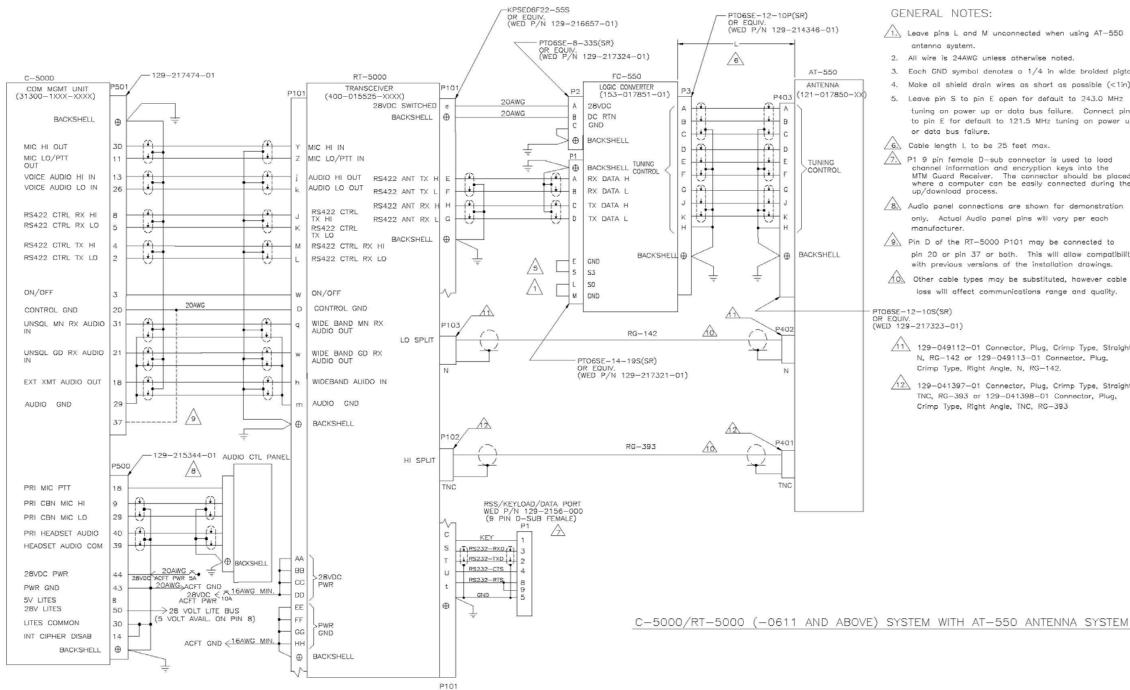


Figure 4-11d. Flexcomm II System Interconnect Drawing (Sheet 4 of 17) Dwg No. 152-140131, Rev. L

1. Leave pins L and M unconnected when using AT-550

2. All wire is 24AWG unless otherwise noted.

3. 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

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

8. Audio panel connections are shown for demonstration only. Actual Audio panel pins will vary per each

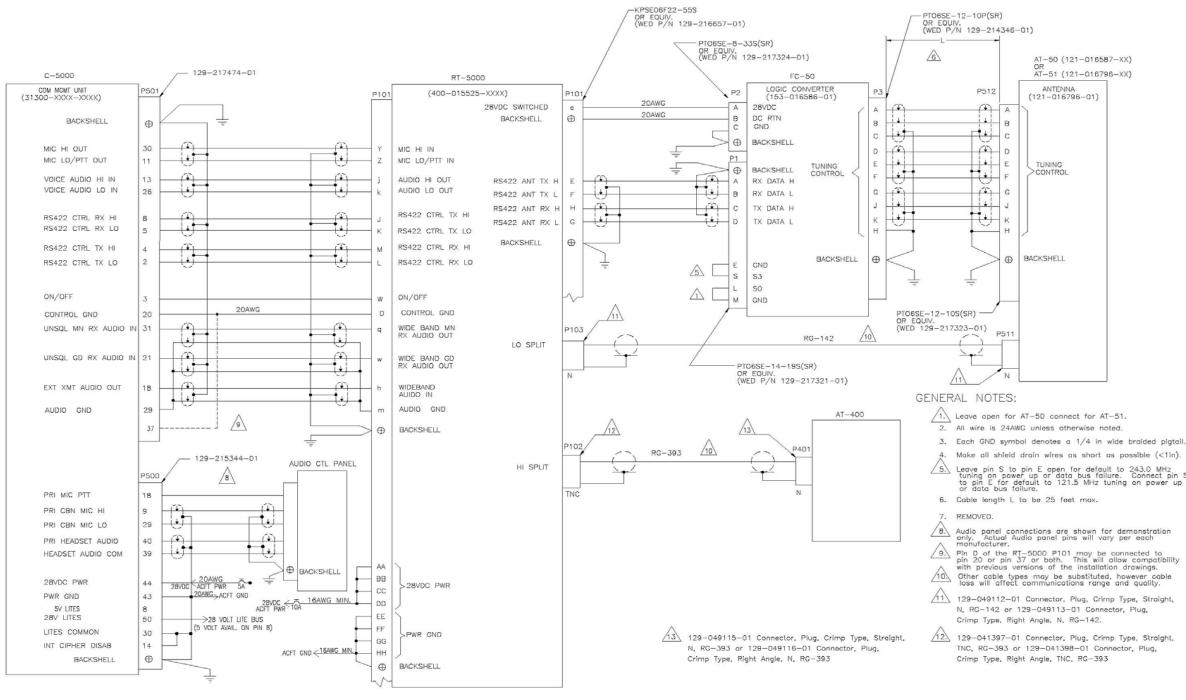
9. Pin D of the RT-5000 P101 may be connected to pin 20 or pin 37 or both. This will allow compatibility with previous versions of the installation drawings.

10. Other cable types may be substituted, however cable loss will affect communications range and quality.

11 129-049112-01 Connector, Plug, Crimp Type, Straight, N, RG-142 or 129-049113-01 Connector, Plug, Crimp Type, Right Angle, N, RG-142.

12. 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/RT-5000 (-0501 AND BELOW) SYSTEM WITH AT-50 OR AT-51 ANTENNA

Figure 4-11e. Flexcomm II System Interconnect Drawing (Sheet 5 of 17) Dwg No. 152-140131, Rev. L

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.

N, RG-142 or 129-049113-01 Connector, Plug,

TNC, RG-393 or 129-041398-01 Connector, Plug,



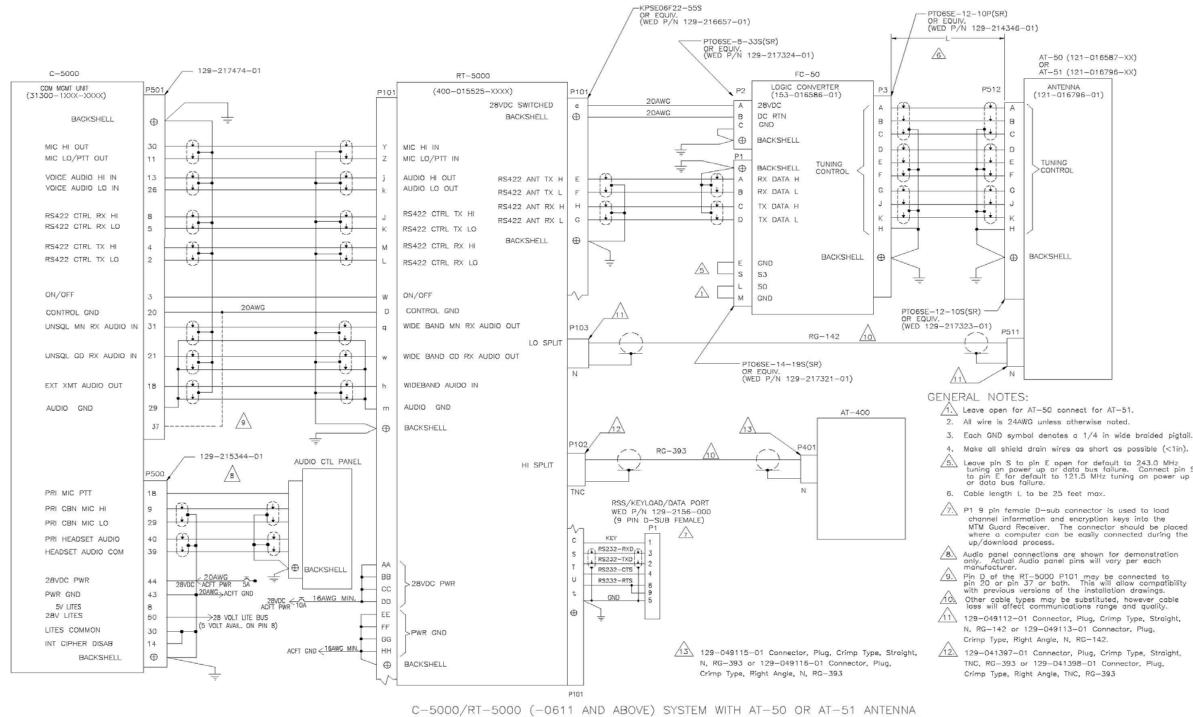


Figure 4-11f. Flexcomm II System Interconnect Drawing (Sheet 6 of 17) Dwg No. 152-140131, Rev. L

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.

N. RG-142 or 129-049113-01 Connector, Plug,

12 129-041397-01 Connector, Plug, Crimp Type, Straight, TNC, RG-393 or 129-041398-01 Connector, Plug,



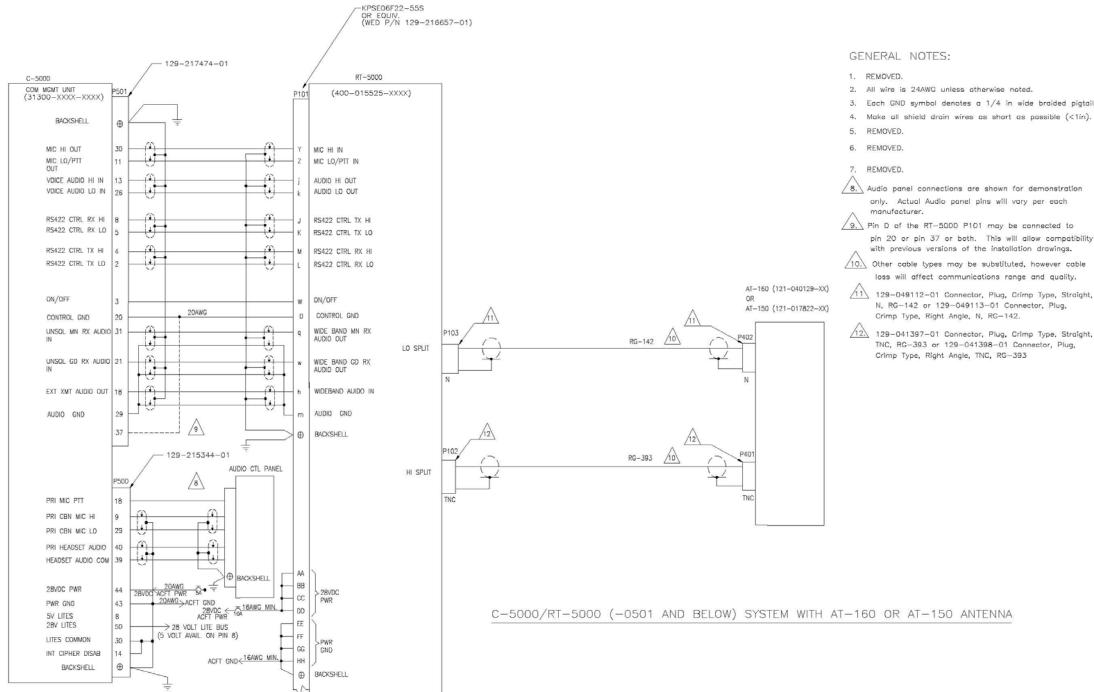


Figure 4-11g. Flexcomm II System Interconnect Drawing (Sheet 7 of 17) Dwg No. 152-140131, Rev. L

3. Each GND symbol denotes a 1/4 in wide braided pigtail. 4. Make all shield drain wires as short as possible (<1in).

only. Actual Audio panel pins will vary per each

pin 20 or pin 37 or both. This will allow compatibility with previous versions of the installation drawings.

10. Other cable types may be substituted, however cable loss will affect communications range and quality.

11 129-049112-01 Connector, Plug, Crimp Type, Straight, N. RG-142 or 129-049113-01 Connector. Plug.

TNC, RG-393 or 129-041398-01 Connector, Plug,



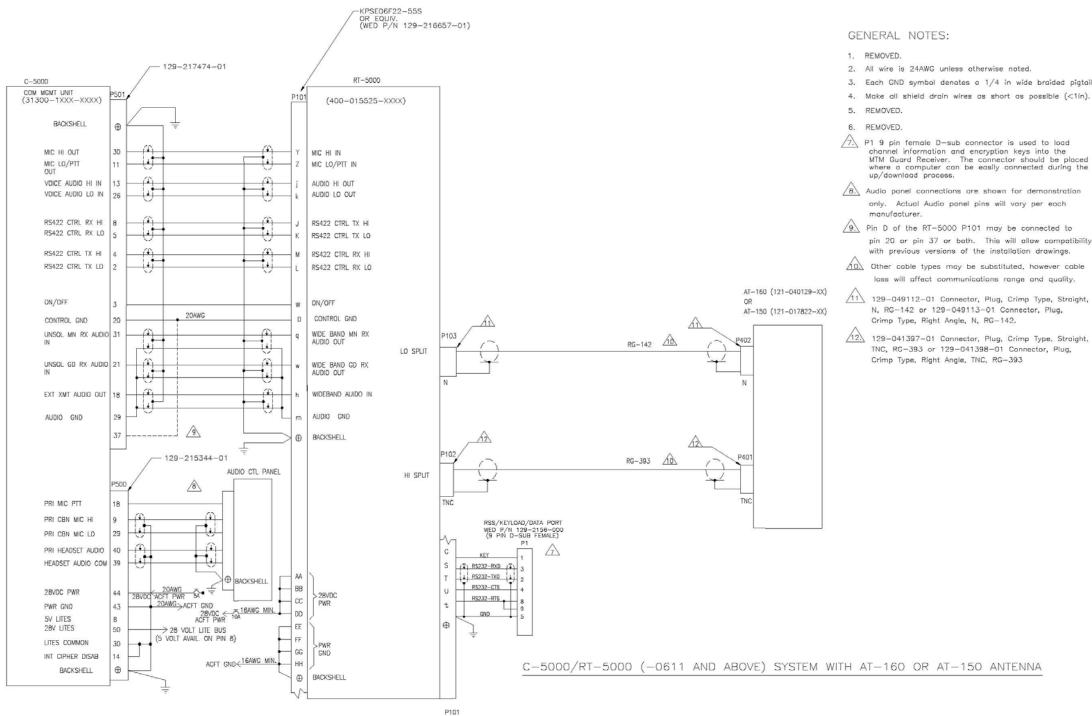


Figure 4-11h. Flexcomm II System Interconnect Drawing (Sheet 8 of 17) Dwg No. 152-140131, Rev. L

3. Each GND symbol denotes a 1/4 in wide braided pigtail.

A spin remarks be 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 present)

only. Actual Audio panel pins will vary per each

pin 20 or pin 37 or both. This will allow compatibility with previous versions of the installation drawings.

10. Other cable types may be substituted, however cable loss will affect communications range and quality.

N, RG-142 or 129-049113-01 Connector, Plug,

TNC, RG-393 or 129-041398-01 Connector, Plug,



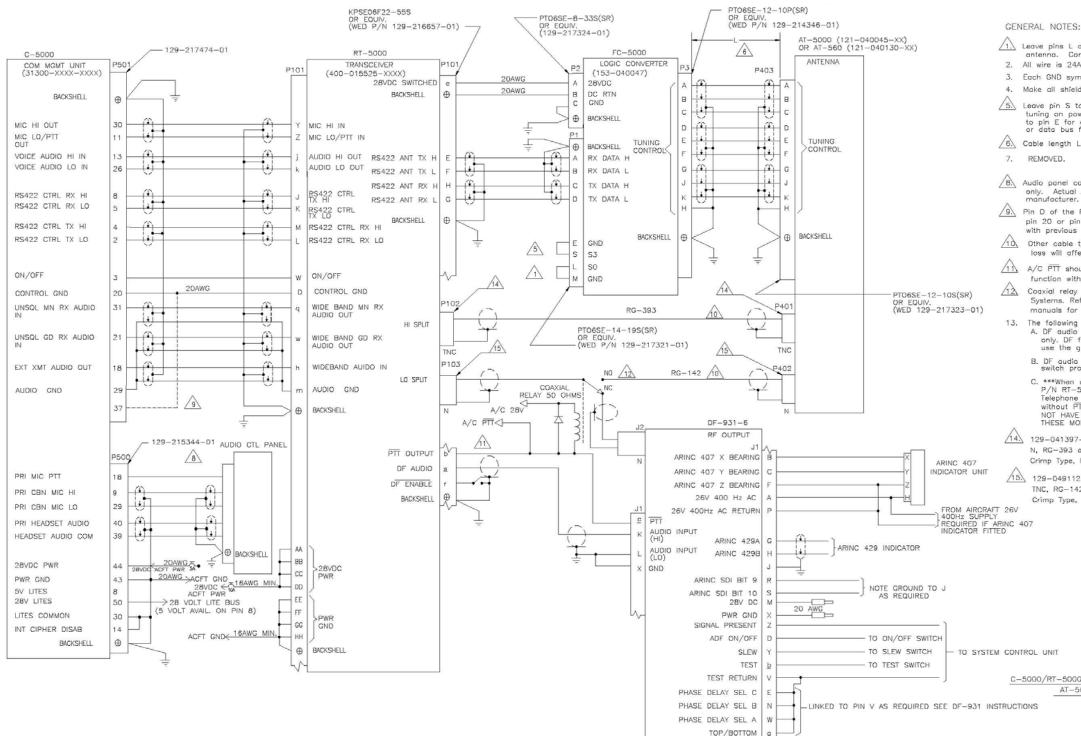


Figure 4-11i. Flexcomm II System Interconnect Drawing (Sheet 9 of 17) Dwg No. 152-140131, Rev. L

1. Leave pins L and M unconnected when using AT-560 antenna. Connect for AT-5000 Antenna. 2. 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.

8. Audio panel connections are shown for demonstration only. Actual Audio panel pins will vary per each manufacturer.

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. 10. 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.

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.

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 -O6XX 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 WORES. NOT HAVE THE THESE MODES.

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

15. 129-049112-01 Connector, Plug, Crimp Type, Straight, TNC, RG-142 or 129-049113-01 Connector, Plug, Crimp Type, Right Angle, TNC, RG-142.

C-5000/RT-5000 (-0501 AND BELOW) SYSTEM WITH AT-5000, AT-560 OR DF-931 ANTENNA SYSTEM



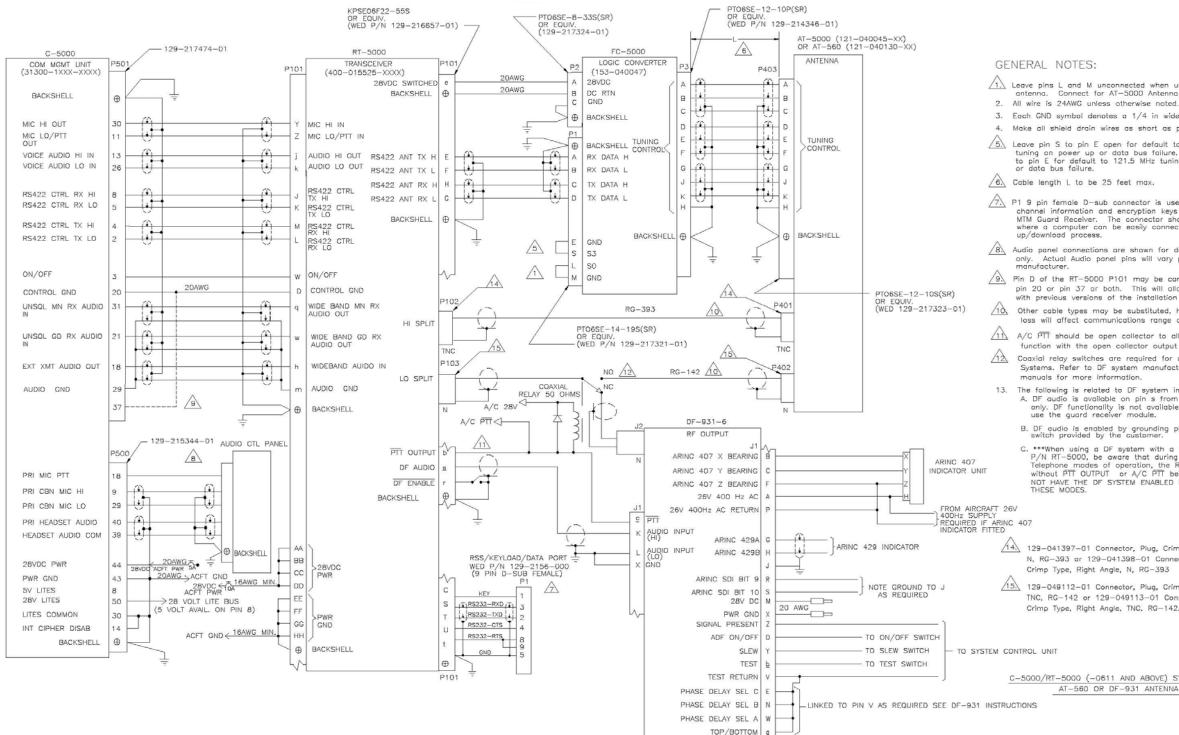


Figure 4-11j. Flexcomm II System Interconnect Drawing (Sheet 10 of 17) Dwg No. 152-140131, Rev. L

Section 4 – Electrical Installation

Leave pins L and M unconnected when using AT-560 antenna. Connect for AT-5000 Antenna.

3. Each GND symbol denotes a 1/4 in wide braided pigtail. Make all shield drain wires as short as possible (<1in).

5. Leave pin S to pin E open for default to 243.0 MHz tuning an 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.

A 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. Audio panel connections are shown for demonstration only. Actual Audio panel pins will vary per each manufacturer.

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.

10. 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.

Coaxial relay switches are required for use with DF Systems. Refer to DF system manufacturers installation manuals for more information.

13. 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.

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.

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

15. 129-049112-01 Connector, Plug, Crimp Type, Straight, TNC, RG-142 or 129-049113-01 Connector, Plug, Crimp Type, Right Angle, TNC, RG-142.

C-5000/RT-5000 (-0611 AND ABOVE) SYSTEM WITH AT-5000, AT-560 OR DF-931 ANTENNA SYSTEM



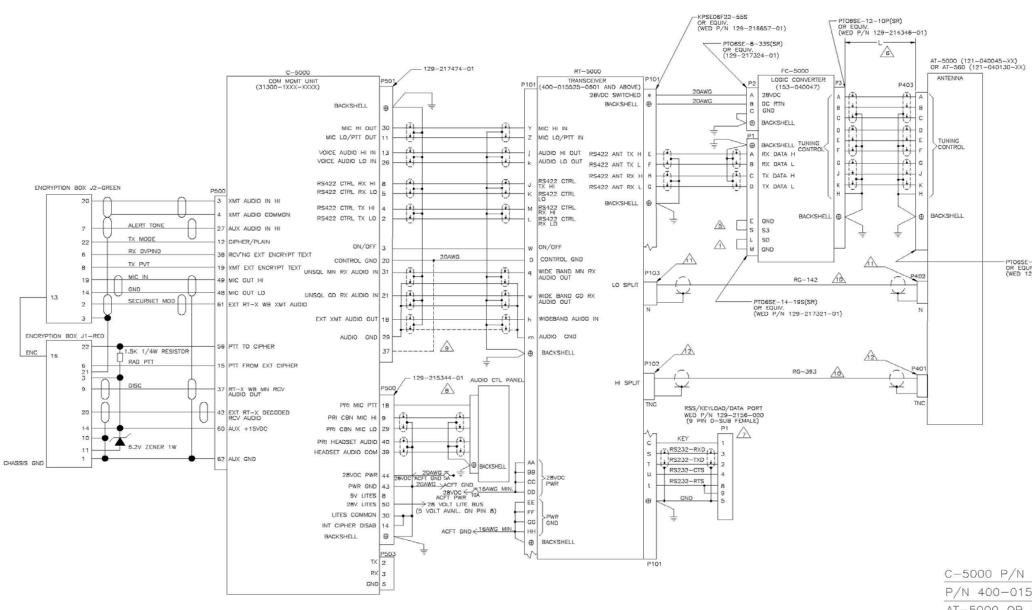


Figure 4-11k. Flexcomm II System Interconnect Drawing (Sheet 11 of 17) Dwg No. 152-140131, Rev. L

Section 4 - Electrical Installation

GENERAL NOTES:

- Leave pins L and M unconnected when using AT-560 antenna. Connect for AT-5000 Antenna.
- 2. All wire is 24AWG unless otherwise noted.
- 3. Each GND symbol denotes a 1/4 in wide braided pigtail.
- 4. Make all shield drain wires as short as possible (<1in).
- Leave pin S to pin E open for default to 243.0 MHz tuning an 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.
- P1 9 pin female D-sub connector is used to load channel information and encryption keys into the MTM Guard Receiver. The cannector should be placed where a computer can be easily connected during the up/download process.
- Audio panel connections are shown far demonstration only. Actual Audio panel pins will vary per each menufacturer.
- 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.
- A Other cable types may be substituted, however cable lass will affect communications range and quality.

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

- 11. 129-049112-01 Connector, Plug, Crimp Type, Straight, N, RG-142 or 129-049113-01 Connector, Plug, Crimp Type, Right Angle, N. RG-142.
- 129-041397-01 Connector, Plug, Crimp Type, Stroight, TNC, RG-393 or 129-041398-01 Connector, Plug, Crimp Type, Right Angle, TNC, RC-393

C-5000 P/N 31300-1XXX-4204 WITH RT-5000 P/N 400-015525 (-0611 AND ABOVE) AND AT-5000 OR AT-560 ANTENNA SYSTEM