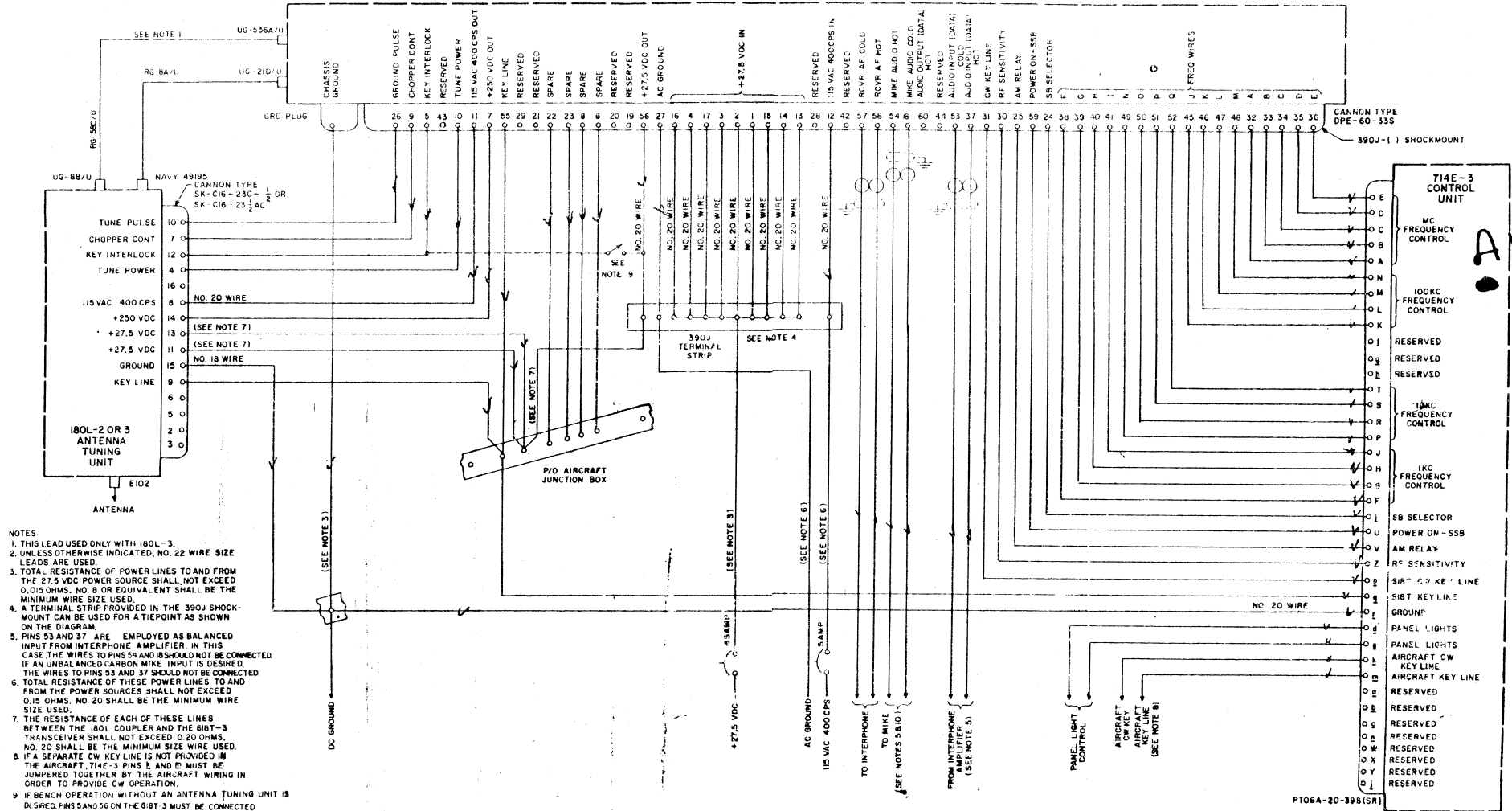


# Collins

## INSTALLATION MANUAL

### 618T-3 TRANSCIEVER



- NOTES:
1. THIS LEAD USED ONLY WITH 180L-3.
  2. UNLESS OTHERWISE INDICATED, NO. 22 WIRE SIZE LEADS ARE USED.
  3. TOTAL RESISTANCE OF POWER LINES TO AND FROM THE 27.5 VDC POWER SOURCE SHALL NOT EXCEED 0.015 OHMS. NO. 8 OR EQUIVALENT SHALL BE THE MINIMUM WIRE SIZE USED.
  4. A TERMINAL STRIP PROVIDED IN THE 390J SHOCKMOUNT CAN BE USED FOR A TIEPOINT AS SHOWN ON THE DIAGRAM.
  5. PINS 53 AND 37 ARE EMPLOYED AS BALANCED INPUT FROM INTERPHONE AMPLIFIER. IN THIS CASE, THE WIRES TO PINS 54 AND 18 SHOULD NOT BE CONNECTED IF AN UNBALANCED CARBON MIKE INPUT IS DESIRED. THE WIRES TO PINS 53 AND 37 SHOULD NOT BE CONNECTED.
  6. TOTAL RESISTANCE OF THESE POWER LINES TO AND FROM THE POWER SOURCES SHALL NOT EXCEED 0.15 OHMS. NO. 20 SHALL BE THE MINIMUM WIRE SIZE USED.
  7. THE RESISTANCE OF EACH OF THESE LINES BETWEEN THE 180L COUPLER AND THE 618T-3 TRANSCIEVER SHALL NOT EXCEED 0.20 OHMS. NO. 20 SHALL BE THE MINIMUM WIRE SIZE USED.
  8. IF A SEPARATE CW KEY LINE IS NOT PROVIDED IN THE AIRCRAFT, THE 3 PINS 5 AND 10 MUST BE JUMPED TOGETHER BY THE AIRCRAFT WIRING IN ORDER TO PROVIDE CW OPERATION.
  9. IF BENCH OPERATION WITHOUT AN ANTENNA TUNING UNIT IS DESIRED, PINS 5 AND 36 ON THE 618T-3 MUST BE CONNECTED TOGETHER TO COMPLETE THE KEY INTERLOCK CIRCUIT. DO NOT CONNECT PINS 3 OR 34 TO AN EXTERNAL DC POWER SOURCE.
  10. WHEN THE UNBALANCED CARBON MIKE INPUT IS USED, THE MIKE RETURN CIRCUIT SHOULD BE CONNECTED TO PINS 18 ON THE 618T-3. IT IS RECOMMENDED THAT NO GROUNDS EXTERNAL TO THE 618T-3 CHASSIS BE PLACED ON THIS LINE.

Airborne SSB Transceiver 618T-3, Control Unit  
714E-3, and Antenna Tuner 180L-( ),  
Interconnecting Wiring Diagram  
Figure 123