

THALES 25 [formerly RACAL 25] HAND HELD RADIO ACCESSORY CABLE SIDE CONNECTOR RETROFIT INSTRUCTIONS

RETROFIT KIT CONTENTS

The Accessory Cable Connector Retrofit Kit, part number 1100589-501, contains the underlisted parts, see Figure 1.

- Connector Housing
- Base Plate, three different types for replacement of the underlisted cables
 - Cloning Cable SOURCE connector
 - Speaker Microphone cable
 - PC Programmer cable and Cloning Cable TARGET connector
- Three Torx size 6 [T6] screws
- O-ring
- Thumbscrew
- Retrofit Instructions



Figure 1

BENEFITS OF THE RETROFIT

The retrofit kit provides the parts necessary to replace old, 'clip-on' side connectors with a more robust screw-on mechanism. The electrical interface is unchanged. The new screw-on accessory side connector is used with new Thales 25 radios with the screw-on side connector, or with old radios where the side connector has been changed to the new style using the side connector retrofit kit part number 1100586-501.

DISASSEMBLING THE EXISTING SIDE CONNECTOR

1. Use a Torx size 6 [T6] screwdriver to remove the two screws holding the Base Plate in place
2. Pry the Base Plate out of the housing to access the circuit card, see Figure 2
3. De-solder the cable wires from the circuit card, making note of the solder connections
4. Remove the locking clip from the cable, see Figure 3; pull the cable out of the housing



Figure 2



Figure 3

ASSEMBLING THE NEW SIDE CONNECTOR

1. Insert the cable into the new replacement housing
2. Solder the cable wires onto the circuit card
3. Press the cable fully into the housing, ensuring the hexagonal connector on the cable is aligned with the hexagonal hole in the housing
4. Replace the locking clip on the cable, see Figure 4
5. Select one of the three Base Plates that matches the pin pattern on the circuit card and insert the pins through the holes in the Base Plate
6. Fit the Base Plate into the housing, taking care not to kink or break the wires; make sure the edges of the Base Plate are seated in the housing, see Figure 5
7. Insert the three provided T6 screws in the housing mounting holes and tighten. DO NOT OVER TIGHTEN, this will strip out the threads in the mounting holes and require the use of a new plastic connector housing
8. On the back of the housing, fit the provided O-ring around the opening, see Figure 6
9. Insert the thumbscrew into the opening. The thumbscrew is a captive screw and must be screwed through the captor threads, see Figure 7
10. The completed assembly is shown in Figure 8



Figure 4



Figure 5



Figure 6



Figure 7



Figure 8

Part Number 1900281
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