

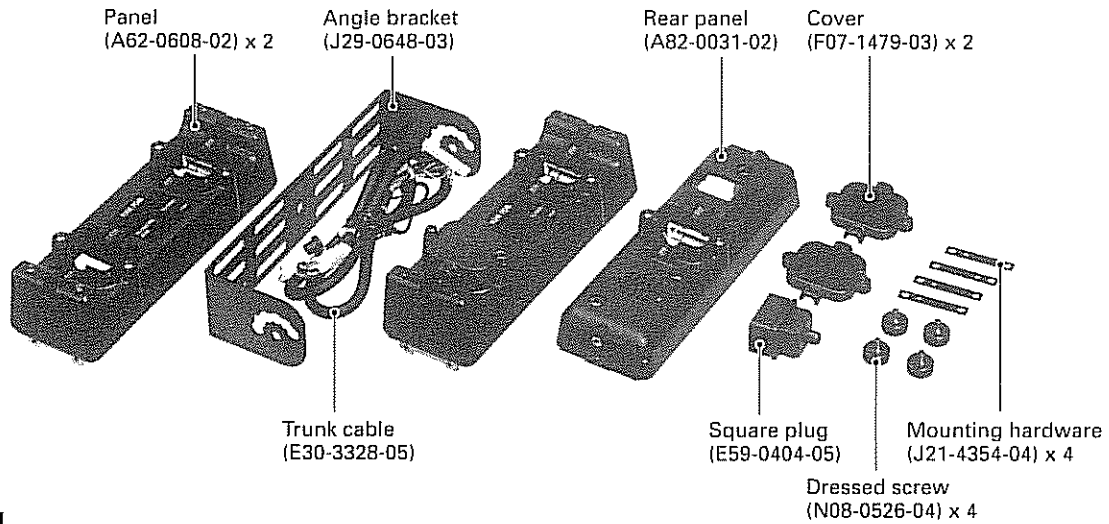
# KRK-7DB/8DBH

## SERVICE MANUAL

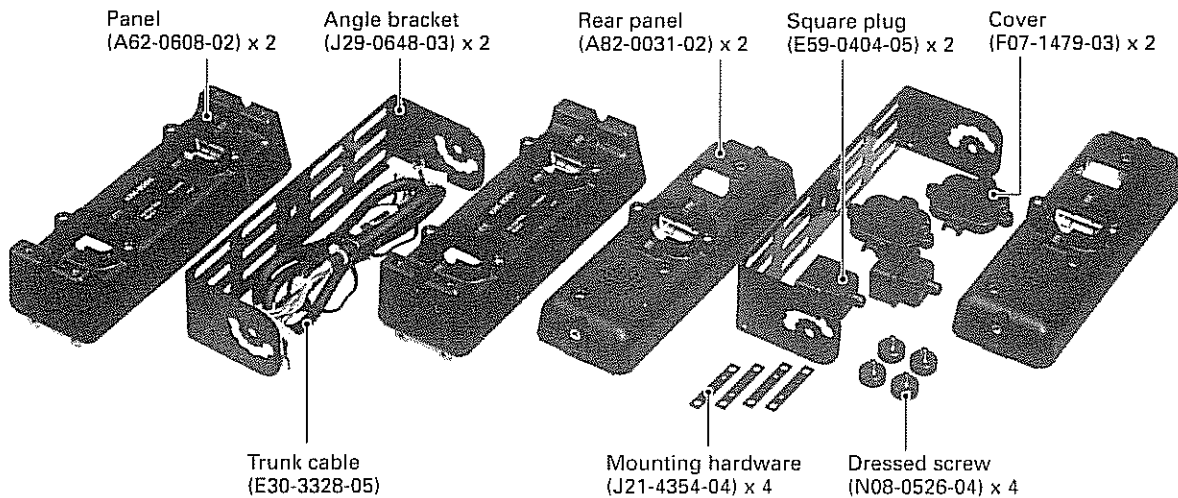
# KENWOOD

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### KRK-7DB



### KRK-8DBH



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## INSTALLATION

### 1. Installing the Dual Band Remote Kit (KRK-7DB)

The KRK-7DB remote kit controls two TK-690/790/890 series radios with one display (KCH-10 or KCH-11). The KRK-7DB is connected to one KCH-10 or KCH-11 and two radios (radio 1 and 2) with a optional control cable (KCT-22). There are three versions of the control cable : KCT-22M (8 feet), KCT-22M2 (17 feet), and KCT-22M3 (25 feet).

#### 1-1. Connection of radio 1 and KRK-7DB body 1

1. Remove the upper and lower halves of the case of radio 1.
2. Connect W501 on the control unit (X57 B/3) of radio 1 to CN4 of the KRK-7DB body 1.
3. Connect W104 connector from CN5 on the KRK-7DB body 1 to control unit CN504 of the radio 1.
4. Install the KRK-7DB body 1 on radio 1 using the four flat-headed screws (N32-3006-46) (1).
5. Reassemble the upper and lower halves of the case of radio 1.

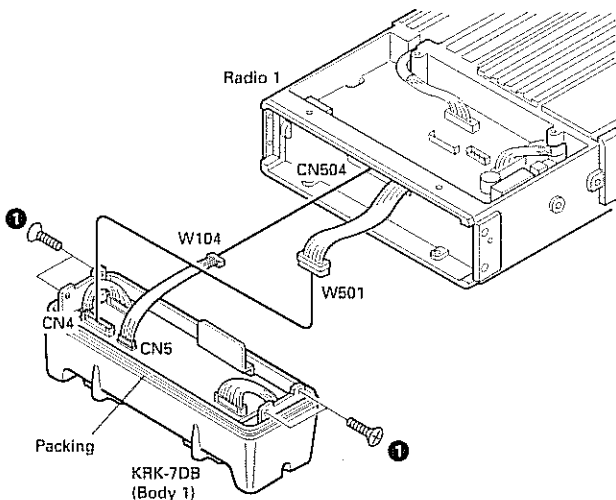


Fig. 1

#### 1-2. Connection of radio 2 and KRK-7DB body 2

1. Remove the upper and lower halves of the case of radio 2.
2. Connect W501 on the control unit of radio 2 to CN4 of the KRK-7DB body 2.
3. Connect W104 on the KRK-7DB body 2 to control unit CN504.
4. Install the KRK-7DB body 2 on radio 2 using the four flat-headed screws (N32-3006-46) (1).
5. Reassemble the upper and lower halves of the case of radio 2.

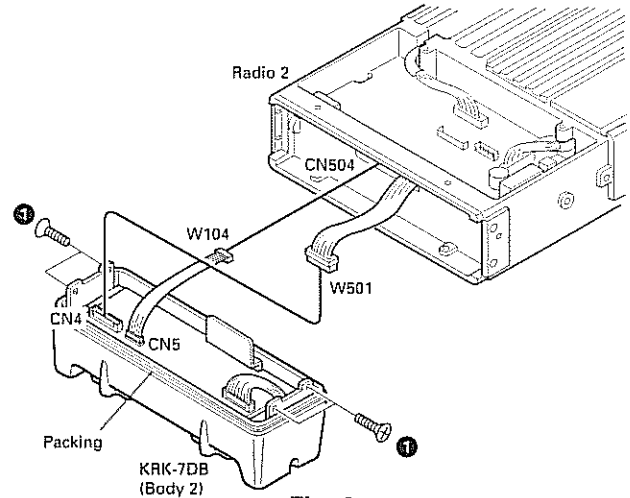


Fig. 2

#### 1-3. Display assembly (Fig. 3)

1. The following steps apply to both the KCH-10 and the KCH-11.
  2. Connect the connector (W102) from the head to CN1 of the display unit (1).
  3. Connect the connector (W103) from the head to CN3 of the display unit (2). : KCH-10  
Connect the connector (W103) from the head to CN2 and CN3 of the display unit. : KCH-11
  4. Remove the three screws (5) on the back of the head, then remove the subpanel.
  5. Install the head subpanel on the display unit subpanel (4).
- Note :** Insert the head subpanel into the display unit subpanel.
6. Install the subpanel on the display unit with the four screws (N32-3006-46) (5).
  7. Install the head with the three screws that were removed in step 4.
  8. Fit the rubber cap (B09-0393-04) on the supplied 12 pin square plug, and fit the plug on the 12 pin ACC connector (Cut off the rubber cap end and fix it with a wire band) (6).

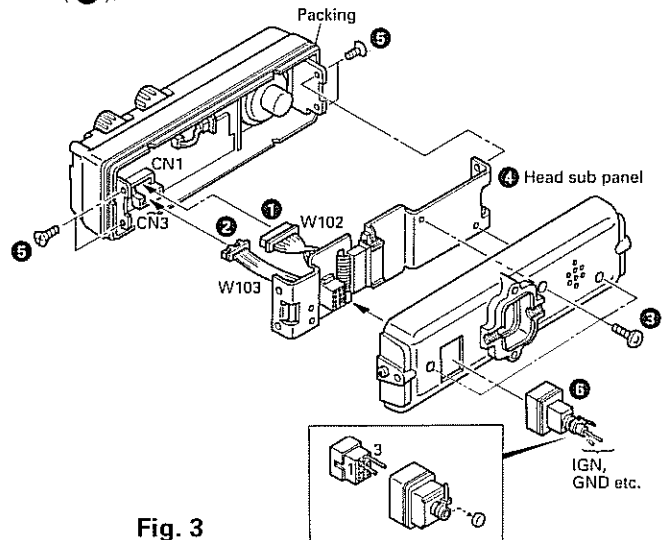


Fig. 3

## INSTALLATION

### 1-4. Connection of radio 1 and radio 2 (Fig. 4)

1. Connect one end of one of the trunk cable (accessory) (1) to the TO RADIO connector (right side) of radio 1 (with body 1), and the other end to the TO RADIO connector of radio 2 (with body 2). Connect each cable GND terminal with one of the binding screws (N35-3006-46) (2) supplied with each trunk cable.
2. Secure the trunk cable connectors to radio 1 and the radio 2 with two screws (N67-4016-45) (3) according to the installation condition of the radios. Pass the trunk cable through the grooves at both ends of the KRK-7DB and secure the cables to the KRK-7DB body 1 and body 2 with the cable fitting (J21-4354-04) and screws (N09-0335-05) (4) supplied with the KRK-7DB.

### 1-5. Control cable connection (Fig. 4)

1. Connect one connector of the control cable (KCT-22) (5) to radio 1 (with body 1) and the other to the display (with head). Connect the cable GND terminal with the binding screw (N35-3006-46) (6) supplied with the control cable.
2. Secure the connector of the control cable to the body 1 with the two sems (N67-4016-45) (7) according to the installation condition of radio 1. Secure the control cable on the body 1 with the cable fitting (J21-4354-04) (8) and two screws (N09-0335-05) supplied with the body 1.
3. Secure the other connector of the control cable to the display unit with two sems (N67-4016-45) (9) in the same way.

### 1-6. Display installation (Fig. 5)

1. Install the display with the supplied angle bracket (J29-0648-03) (1) and two decorative screws (N08-0526-04) (2).

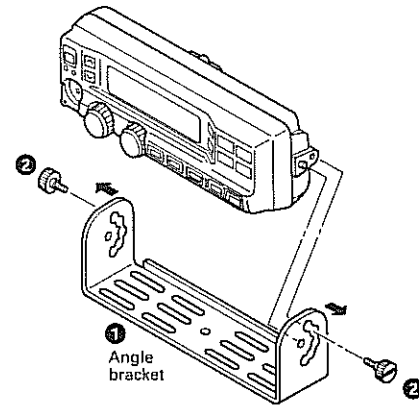


Fig. 5

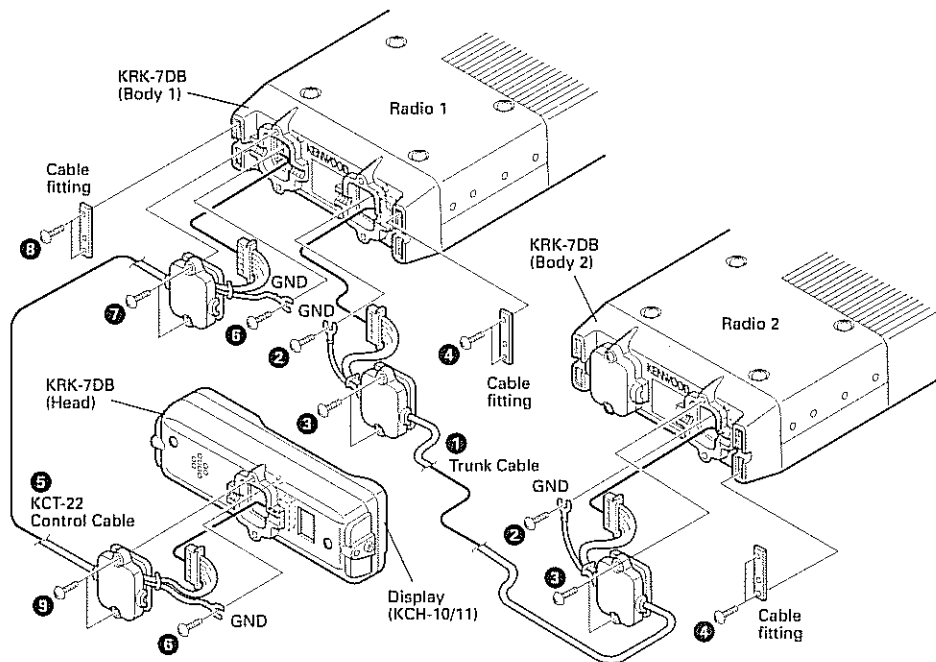


Fig. 4

## INSTALLATION

### 2. Installing the Dual Band Dual Control Head Kit (KRK-8DBH)

The KRK-8DBH kit connects two displays (two KCH-10s or KCH-11s) to a TK-690/790/890 series radio. The KRK-8DBH is connected to the KCH-10s or KCH-11s with two optional control cables (KCT-22). There are three version of the control cable : KCT-22M (8 feet), KCT-22M2 (17 feet), and KCT-22M3 (25 feet).

#### 2-1. Connection of radio and KRK-8DBH (body 1 and body 2) (Fig. 6)

1. Remove the upper and lower halves of the case of radio (radio 1 and 2).
2. Connect W501 on the control unit (X57 B/3) to CN4 of the KRK-8DBH (body 1 and 2).  
Connect the W104 connector from CN5 on the KRK-8DBH to CN504 of the radio (radio 1 and 2).
3. Install the KRK-8DBH on radio using the four flat head screws (N32-3006-46) (1).
4. Reassemble the upper and lower halves of the case of radio 1 and radio 2.

#### 2-2. Assembly of displays (displays 1 and 2) (Fig. 3)

1. Same as the KRK-7DB display assembly procedure in Section 1-3. (Assemble the two displays in the same way.) See page 2.

#### 2-3. Control cable (KCT-22) and trunk cable (accessory) connection (Fig. 7)

1. Use two control cables. Connect one end of one of the control cables to radio 1 (with body 1) and the other end to display 1 (with head 1).  
Connect one connector of the other control cable to radio

2 (with body 2) and the other to display 2 (with head 2). Connect each cable GND terminal with one of the binding screws (N35-3006-46) (1) supplied with each control cable.

2. Connect one end of one of the trunk cable (accessory) to the TO RADIO connector (right side) of radio 1 (head1), and the other end to the TO RADIO connector (left side) of radio 2 (head 2). Connect each cable GND terminal with one of the binding screws (N35-3006-46) supplied with each trunk cable (1).
3. Secure each of the two connectors to the KRK-8DBH with two sems (N67-4016-45) (2) according to the installation condition of radio. Pass the control cables through the grooves at both ends of the KRK-8DBH and secure the cables to the KRK-8DBH with the cable fitting (J21-4354-04) and screws (N09-0335-05) (3) supplied with the KRK-8DBH.
4. Secure the connectors of the control cables to displays 1 and 2 with two sems (N67-4016-45) (4).

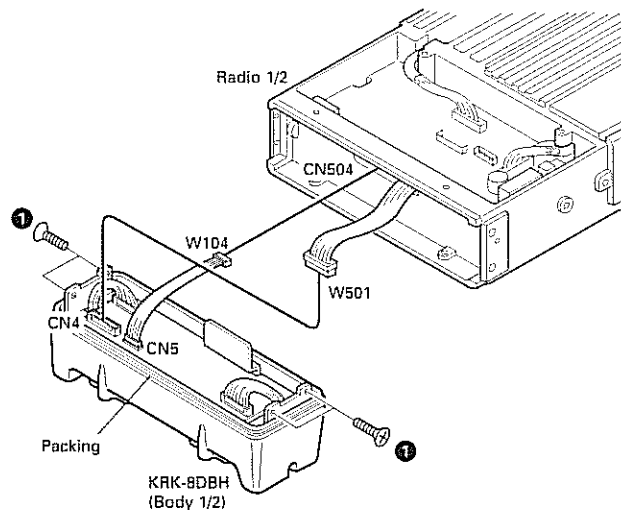


Fig. 6

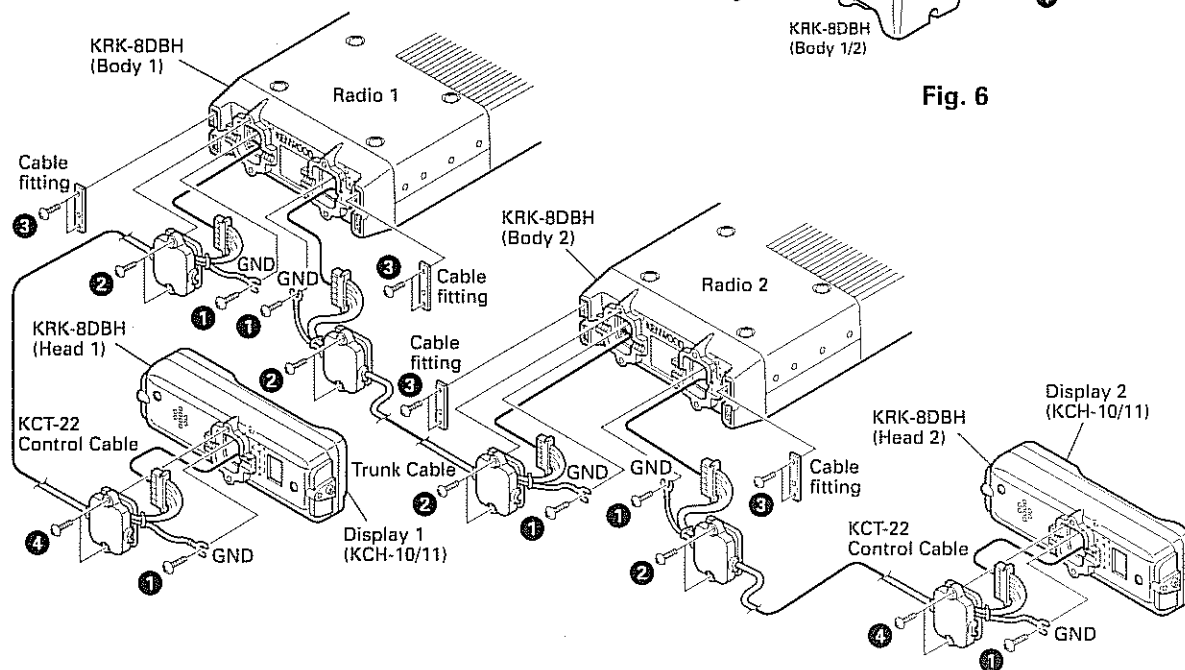


Fig. 7

## INSTALLATION / DISASSEMBLY FOR REPAIR

### 2-4. Ignition sense cable (KCT-18) connection

If the KCT-18 is used for the KRK-7DB, use the 9-pin plug on the back of radio 1 or the 12-pin plug on the back of the head. The plug on radio 2 cannot be used.

If the KCT-18 is used for the KRK-8DBH, use the 9-pin plug on the back of radio 1 or the 12-pin plug on the back of head 1. The plugs on radio 2 and head 2 cannot be used.

### 3. Other Modification

#### 3-1. Connection with the remote kit

When the KRK-7DB or KRK-8DBH is used, set chip resistors as shown in the table below.

	KRK-7DB	KRK-8DBH
Radio 1	Unnecessary	Unnecessary
Radio 2	1) Remove R546	1) Remove R546
	2) Remove R661	2) Remove R661
	3) Move R602 to R705	3) Move R602 to R705
		4) Remove Q515*
		5) Jumper to Q503 and Q514*

\* : TK-690H unnecessary

#### 3-2. Modification

1. Remove the upper half of the case of the TK-690H/790/890.
2. Set R546, R661, R602, and R705 on the control unit (X57 B/3) according to the table.
3. Remove Q515 and jumper to Q503 and Q514 according to the figure 8 (TK-690H unnecessary).
4. Reinstall the upper half of the case.

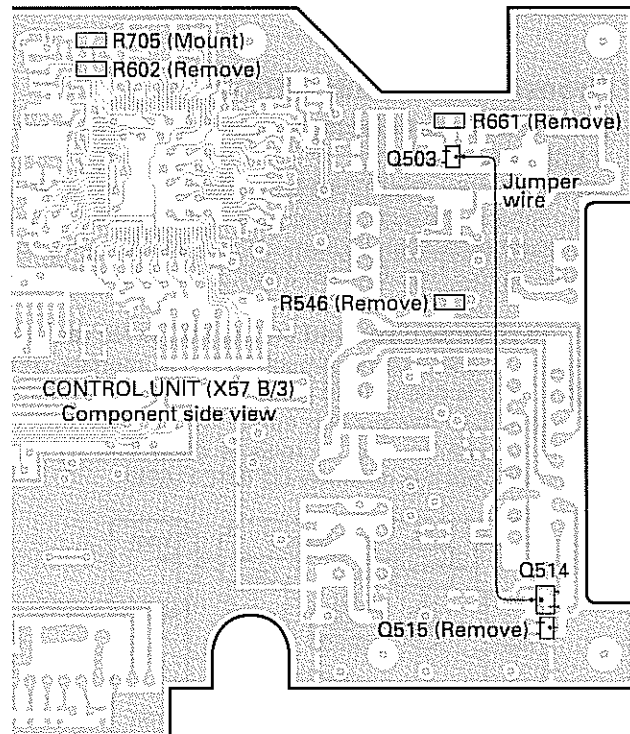


Fig. 8

### DISASSEMBLY FOR REPAIR

#### 1. Body Panel Disassembly Procedure (Fig. 1)

Figure 1 shows the KRK-7DB (body 2) as an example.

1. Remove the four screws holding the interface unit (1).
2. Unplug the connector from the interface unit.
3. Remove the five screws (2) holding the subpanel.
4. See Figure 1-a for how to install the lead with a connector (3).

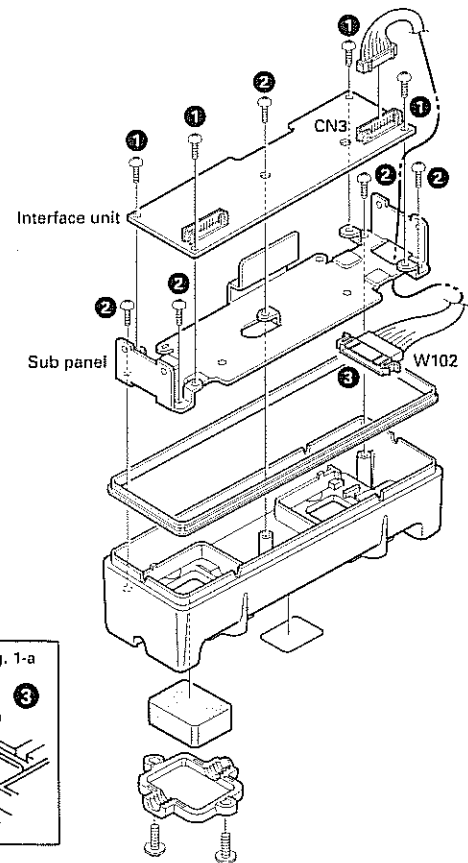


Fig. 1