

MOTOROLA SOLUTIONS R7 Series Portable Two Way Radio



# MOTOROLA SOLUTIONS R7 Series Portable Two Way Radio Instruction Manual

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**MOTOROLA SOLUTIONS R7 Series Portable Two-Way Radio**



## Specifications

- Brand: MOTOTRBO
- Model: R7 Series
- Type: Portable Two-Way Radio
- Battery: Lithium Rechargeable Coin Cell Battery, 3.4 mAh
- Frequency: Tri-band Connectivity (GPS/BT/Wi-Fi/2.4-5 G)

## Assembly Instructions

1. Attach the Volume knob (Item 1.0) and Frequency knob (Item 2.0) to the device.
2. Insert the Keypad (Item 3.0) into the designated slot.
3. Secure all parts using the appropriate screws and retainers listed in Table 57.

## Battery Installation

1. Locate the Lithium Rechargeable Coin Cell Battery (Item 11.0).
2. Insert the battery into the designated compartment according to the polarity markings.
3. Secure the battery compartment with the O-Ring Main Seal (Item 12.0).

## Operation

1. Turn on the device by pressing the power button.
2. Use the Volume knob to adjust the audio output.

3. Press the necessary buttons on the Keypad to operate the radio functions.

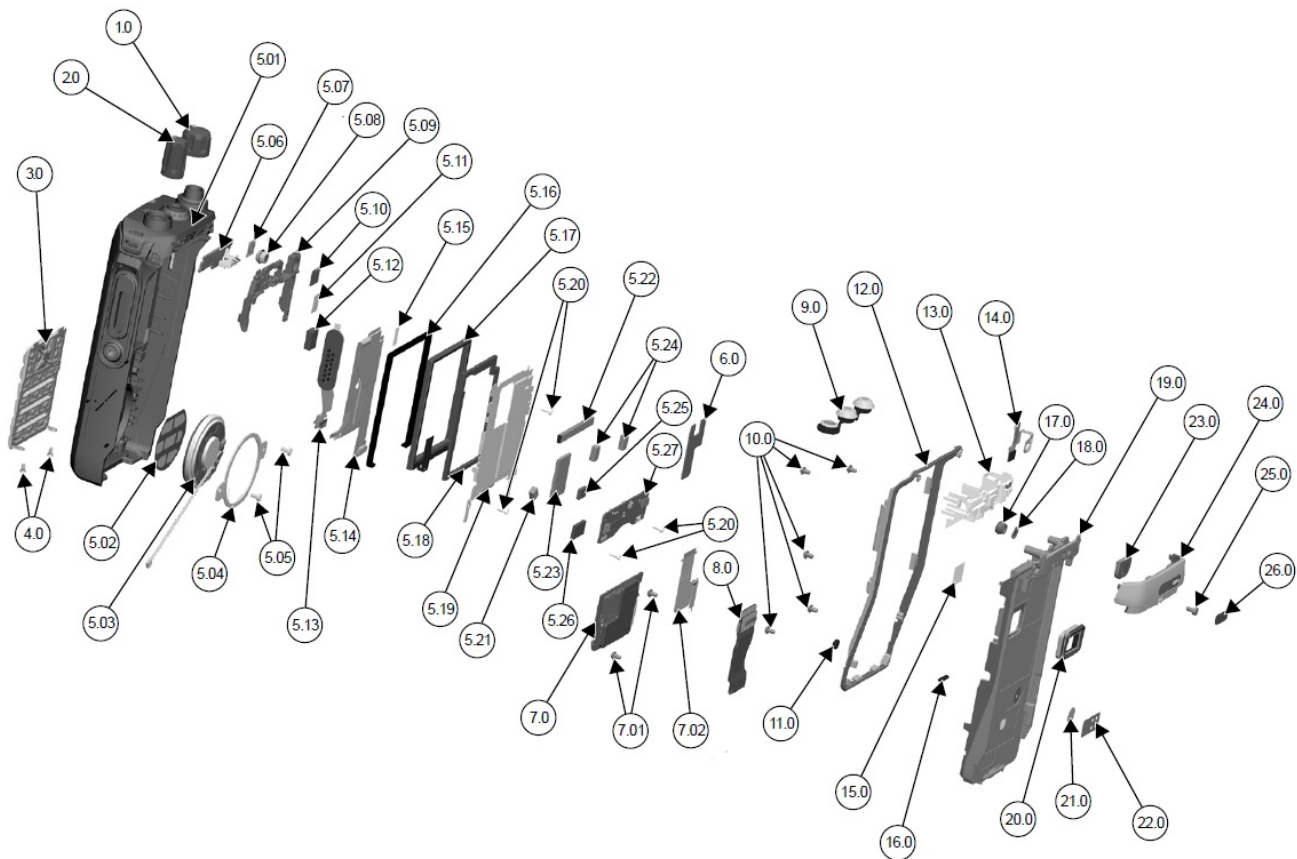
## 5.6

### Radio Exploded Mechanical Views and Parts Lists

#### 5.6.1

##### Full Keypad Model Exploded View and Parts List

**Figure 7:** Full Keypad Model Exploded View



**Table 57:** Full Keypad Model Exploded View Parts List

| Item | Description                     | Part Number                                     |
|------|---------------------------------|-------------------------------------------------|
| 1.0  | Volume knob                     | HW002889A01                                     |
| 2.0  | Frequency knob                  | HW002890A01                                     |
| 3.0  | Keypad                          | See the Additional Parts List Table on page 141 |
| 4.0  | Countersunk Machined Screw M1.6 | FN000509A01                                     |
| 5.0  | Front Kit                       | See the Additional Parts List Table on page 141 |
| 5.01 | Front Housing Assembly FKP      | 0104083J18                                      |
| 5.02 | Speaker Mesh                    | HW003669A01                                     |
| 5.03 | Speaker Assembly, 36 mm, 8 Ω    | 0112908K01                                      |
| 5.04 | Speaker Retainer                | HW002770A01                                     |

|     |      |                                                                     |                                                 |
|-----|------|---------------------------------------------------------------------|-------------------------------------------------|
|     | 5.05 | Thread Forming Screw                                                | FN000562A01                                     |
|     | 5.06 | Antenna, PCB Assembly, Tri-band Connectivity (GPS/BT/Wi-Fi/2.4-5 G) | AN000389A01                                     |
|     | 5.07 | Front Microphone Membrane Seal                                      | SL000710A01                                     |
|     | 5.08 | Front Microphone Boot Seal                                          | SL000606A01                                     |
|     | 5.09 | Antenna Retainer                                                    | HW002762A01                                     |
|     | 5.10 | Front Microphone Backer Retainer                                    | HW002844A01                                     |
|     | 5.11 | Kapton Tape                                                         | HW002863A01                                     |
|     | 5.12 | Display Poron Pad                                                   | HW003151A01                                     |
|     | 5.13 | PCBA, GCAI Mini Flex                                                | PA003038A01                                     |
|     | 5.14 | Display Module-LC                                                   | See the Additional Parts List Table on page 141 |
|     | 5.15 | Microphone Adhesive                                                 | HW003344A01                                     |
|     | 5.16 | Side Display Pad                                                    | HW002772A01                                     |
|     | 5.17 | PCBA (Ground Flex)                                                  | PA003292A01                                     |
|     | 5.18 | Pad Back Display                                                    | HW002773A01                                     |
|     | 5.19 | Display Retainer                                                    | BR000513A01                                     |
|     | 5.20 | Keypad Retainer Screw                                               | 0378212A04                                      |
|     | 5.21 | Conductive Pad GCAI                                                 | HW002800A01                                     |
|     | 5.22 | Conductive Retainer Pad                                             | HW002790A01                                     |
|     | 5.23 | Conductive Display Pad Flex                                         | HW002792A01                                     |
|     | 5.24 | Conductive PTT Pad                                                  | HW002791A01                                     |
|     | 5.25 | Conductive LCD Pad                                                  | HW002788A01                                     |
|     | 5.26 | Support Poron Pad                                                   | HW002966A01                                     |
|     | 5.27 | Interface (FKP) Block                                               | 0104083J15                                      |
| 6.0 |      | Poron Pad, VCO Shield                                               | HW003537A01                                     |

## Chapter 5: Disassembly and Reassembly Procedures

| Item |      | Description                                     | Part Number |
|------|------|-------------------------------------------------|-------------|
| 7.0  |      | GOB1 Service Kit                                | PMLN8203_S  |
|      | 7.01 | M2 Tapping Screw                                | 03012034001 |
|      | 7.02 | GOB Flex PCB                                    | PF003027A01 |
| 8.0  |      | Main Flex Accessory PCBA                        | PA002996A01 |
| 9.0  |      | Top Control Seal                                | SL000610A01 |
| 10.0 |      | M2 Tapping Screw                                | 03012034001 |
| 11.0 |      | Lithium Rechargeable Coin Cell Battery, 3.4 mAh | 60009265001 |
| 12.0 |      | O-Ring Main Seal                                | SL000609A01 |
| 13.0 |      | Top Control Retainer                            | HW002765A01 |
| 14.0 |      | Top Control PCBA Flex                           | PA002952A01 |
| 15.0 |      | Thermal Pad                                     | 75012234001 |
| 16.0 |      | Chassis Poron Pad                               | HW002848A01 |
| 17.0 |      | Rear Microphone Boot Seal                       | SL000636A01 |
| 18.0 |      | Rear Microphone Membrane Seal                   | SL000666A01 |
| 19.0 |      | Chassis                                         | CH000292A01 |
| 20.0 |      | Battery Contact Seal                            | SL000611A01 |
| 21.0 |      | Gasket                                          | 3286058L01  |
| 22.0 |      | Vent Seal Label                                 | LB001662A01 |
| 23.0 |      | Back Shroud Poron                               | HW002866A01 |
| 24.0 |      | Shroud Retainer FKP and NKP                     | HW002766A01 |
| 25.0 |      | Machined Shroud Screw                           | 0386104Z11  |
| 26.0 |      | Nameplate                                       | LB001707A01 |

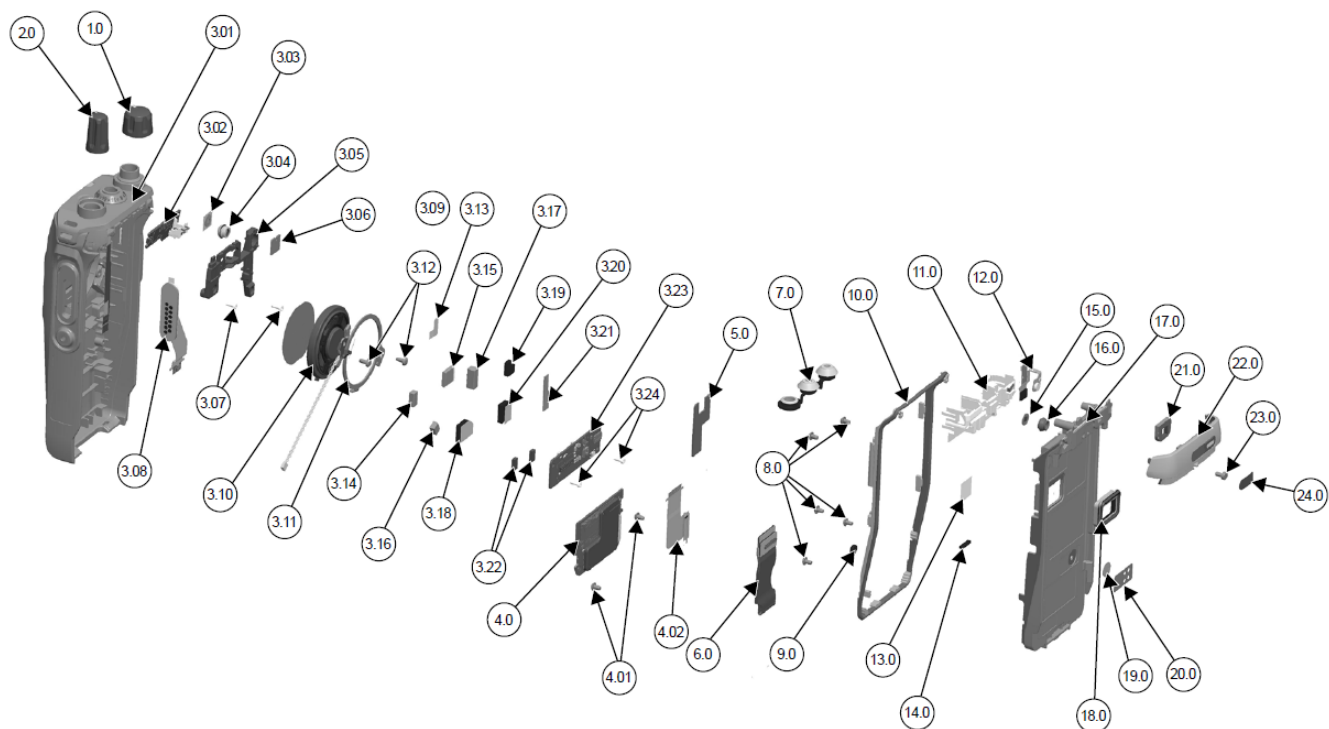
**Table 58:** Only Applicable for Model PMUD3531ACC

| Item |      | Description         | Part Number |
|------|------|---------------------|-------------|
| 7.0  |      | PDT GOB Service Kit | PMLN8249_S  |
|      | 7.01 | M2 Tapping Screw    | 03012034001 |
|      | 7.02 | GOB Flex PCB        | PF003027A01 |

## 5.6.2

Non-Keypad Model Exploded View and Parts List

**Figure 8:** Non-Keypad Model Exploded View



**Table 59:** Non-Keypad Model Exploded View Parts List

| Item |      | Description                                                         | Part Number                                     |
|------|------|---------------------------------------------------------------------|-------------------------------------------------|
| 1.0  |      | Volume knob                                                         | HW002889A01                                     |
| 2.0  |      | Frequency knob                                                      | HW002890A01                                     |
| 3.0  |      | Front Kit                                                           | See the Additional Parts List Table on page 141 |
|      | 3.01 | Front Housing Assembly NKP                                          | 0104083J19                                      |
|      | 3.02 | Antenna, PCB Assembly, Tri-band Connectivity (GPS/BT/Wi-Fi/2.4-5 G) | AN000389A01                                     |
|      | 3.03 | Front Microphone Membrane Seal                                      | SL000710A01                                     |
|      | 3.04 | Front Microphone Boot Seal                                          | SL000606A01                                     |
|      | 3.05 | Antenna Retainer                                                    | HW002878A01                                     |
|      | 3.06 | Front Microphone Backer Retainer                                    | HW002844A01                                     |
|      | 3.07 | Keypad Retainer Screw                                               | 0378212A04                                      |
|      | 3.08 | PCBA, GCAI Mini Flex                                                | PA003038A01                                     |
|      | 3.09 | Speaker Mesh                                                        | HW002888A01                                     |
|      | 3.10 | Speaker Assembly, 36 mm, 8 Ω                                        | 0112908K01                                      |

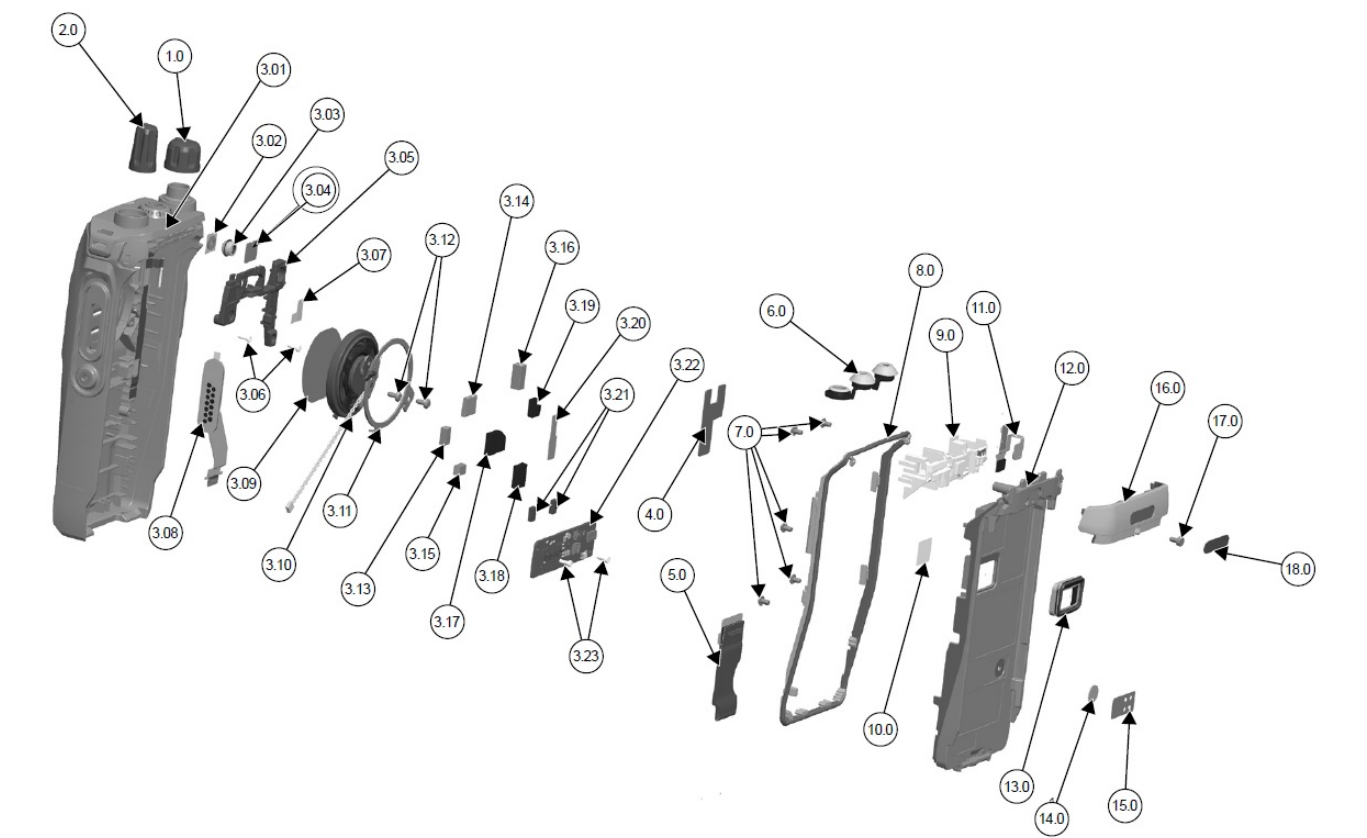
| Item |      | Description               | Part Number |
|------|------|---------------------------|-------------|
|      | 3.11 | Speaker Retainer Assembly | 0112980J66  |

|      |      |                                                 |             |
|------|------|-------------------------------------------------|-------------|
|      | 3.12 | Thread Forming Screw                            | FN000562A01 |
|      | 3.13 | Microphone Adhesive                             | HW003344A01 |
|      | 3.14 | Conductive PTT Pad                              | HW002791A01 |
|      | 3.15 | Grounding Pad, Speaker                          | HW002897A01 |
|      | 3.16 | Conductive Pad GCAI                             | HW002800A01 |
|      | 3.17 | Conductive PTT Pad                              | HW003144A01 |
|      | 3.18 | Poron Pad, GCAI Flex                            | HW002881A01 |
|      | 3.19 | Poron Pad, PTT Flex                             | HW002880A01 |
|      | 3.20 | PTT Top Poron Pad                               | HW002879A01 |
|      | 3.21 | Stiffener PTT Flex                              | HW003254A01 |
|      | 3.22 | NKP Spring Pad                                  | HW003290A01 |
|      | 3.23 | Interface (NKP) Block                           | 0104083J21  |
|      | 3.24 | Keypad Retainer Screw                           | 0378212A04  |
| 4.0  |      | GOB1 Service Kit, PCBA                          | PMLN8203_S  |
|      | 4.01 | M2 Screw, Tapping                               | 03012034001 |
|      | 4.02 | M2 Tapping Screw                                | PF003027A01 |
| 5.0  |      | Poron Pad, VCO Shield                           | HW003537A01 |
| 6.0  |      | Main Flex Accessory PCBA                        | PA002996A01 |
| 7.0  |      | Top Control Seal                                | SL000610A01 |
| 8.0  |      | M2 Tapping Screw                                | 03012034001 |
| 9.0  |      | Lithium Rechargeable Coin Cell Battery, 3.4 mAh | 60009265001 |
| 10.0 |      | O-Ring Main Seal                                | SL000609A01 |
| 11.0 |      | Top Control Retainer                            | HW002765A01 |
| 12.0 |      | Top Control PCBA Flex                           | PA002952A01 |
| 13.0 |      | Thermal Pad                                     | 75012234001 |
| 14.0 |      | Chassis Poron Pad                               | HW002848A01 |
| 15.0 |      | Rear Microphone Membrane Seal                   | SL000666A01 |
| 16.0 |      | Rear Microphone Boot Seal                       | SL000636A01 |
| 17.0 |      | Chassis                                         | CH000292A01 |
| 18.0 |      | Battery Contact Seal                            | SL000611A01 |
| 19.0 |      | Gasket                                          | 3286058L01  |
| 20.0 |      | Vent Seal Label                                 | LB001662A01 |
| 21.0 |      | Back Shroud Poron                               | HW002866A01 |

|      |  |                             |             |
|------|--|-----------------------------|-------------|
| 22.0 |  | Shroud Retainer FKP and NKP | HW002766A01 |
| 23.0 |  | Machined Shroud Screw       | 0386104Z11  |

| Item |  | Description | Part Number |
|------|--|-------------|-------------|
| 24.0 |  | Nameplate   | LB001707A01 |

**5.6.3**  
 Simple Non-Keypad Model Exploded View and Parts List  
**Figure 9:** Simple Non-Keypad Model Exploded View



**Table 60:** Simple Non-Keypad Model Exploded View Parts List

| Item |      | Description                      | Part Number                                     |
|------|------|----------------------------------|-------------------------------------------------|
| 1.0  |      | Volume knob                      | HW002889A01                                     |
| 2.0  |      | Frequency knob                   | HW002890A01                                     |
| 3.0  |      | Front Kit                        | See the Additional Parts List Table on page 141 |
|      | 3.01 | Front Housing Assembly NKP       | 0104083J19                                      |
|      | 3.02 | Front Microphone Membrane Seal   | SL000710A01                                     |
|      | 3.03 | Front Microphone Boot Seal       | SL000606A01                                     |
|      | 3.04 | Front Microphone Backer Retainer | HW002844A01                                     |
|      | 3.05 | Antenna Retainer                 | HW002878A01                                     |
|      | 3.06 | Keypad Retainer Screw            | 0378212A04                                      |
|      | 3.07 | Microphone Adhesive              | HW003344A01                                     |
|      | 3.08 | PCBA, GCAI Mini Flex             | PA003038A01                                     |

| Item |      | Description                         | Part Number |
|------|------|-------------------------------------|-------------|
|      | 3.09 | Speaker Mesh                        | HW002888A01 |
|      | 3.10 | Speaker Assembly, 36 mm, 8 $\Omega$ | 0112908K01  |
|      | 3.11 | Speaker Retainer Assembly           | 0112980J66  |
|      | 3.12 | Thread Forming Screw                | FN000562A01 |
|      | 3.13 | Conductive PTT Pad                  | HW002791A01 |
|      | 3.14 | Grounding Pad, Speaker              | HW002897A01 |
|      | 3.15 | Conductive Pad GCAI                 | HW002800A01 |
|      | 3.16 | Conductive PTT Pad                  | HW003144A01 |
|      | 3.17 | Poron Pad, GCAI Flex                | HW002881A01 |
|      | 3.18 | Poron Pad, PTT Flex                 | HW002880A01 |
|      | 3.19 | PTT Top Poron Pad                   | HW002879A01 |
|      | 3.20 | Stiffener PTT Flex                  | HW003254A01 |
|      | 3.21 | NKP Spring Pad                      | HW003290A01 |
|      | 3.22 | Interface (NKP) Block               | 0104083J21  |
|      | 3.23 | Keypad Retainer Screw               | 0378212A04  |
| 4.0  |      | Poron Pad, VCO Shield               | HW003537A01 |
| 5.0  |      | Main Flex Accessory PCBA            | PA002996A01 |
| 6.0  |      | Top Control Seal                    | SL000610A01 |
| 7.0  |      | M2 Tapping Screw                    | 03012034001 |
| 8.0  |      | O-Ring Main Seal                    | SL000609A01 |
| 9.0  |      | Top Control Retainer                | HW002765A01 |
| 10.0 |      | Top Control PCBA Flex               | PA002952A02 |
| 11.0 |      | Thermal Pad                         | 75012234001 |
| 12.0 |      | Chassis                             | CH000292A02 |
| 13.0 |      | Battery Contact Seal                | SL000611A01 |
| 14.0 |      | Gasket                              | 3286058L01  |
| 15.0 |      | Vent Seal Label                     | LB001662A01 |
| 16.0 |      | Shroud Retainer Basic NKP           | HW002766A02 |
| 17.0 |      | Machined Shroud Screw               | 0386104Z11  |
| 18.0 |      | Nameplate                           | LB001783A01 |

#### 5.6.4

Additional Parts List Table

**Table 61:** Keypad

| Motorola Solutions Part Number | Description                    | Super Tanapa 20                                                                                         |
|--------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------|
| UHF                            |                                |                                                                                                         |
| KP000218A01                    | Keypad (Roman)                 | <ul style="list-style-type: none"> <li>PMUE5722_AB</li> <li>PMUE5722_BB</li> <li>PMUE5724_AB</li> </ul> |
| KP000218A02                    | Keypad (Cyrillic)              | PMUE5724_AG                                                                                             |
| KP000218A03                    | Keypad (Arabic)                | PMUE5724_AF                                                                                             |
| KP000218A05                    | Keypad (Simplified Chi- nese)  | PMUE5724_AC                                                                                             |
| KP000218A06                    | Keypad (Traditional Chi- nese) | PMUE5724_AD                                                                                             |
| KP000218A07                    | Keypad (Korean)                | PMUE5724_AE                                                                                             |
| VHF                            |                                |                                                                                                         |
| KP000218A01                    | Keypad (Roman)                 | <ul style="list-style-type: none"> <li>PMUD3491_AB</li> <li>PMUD3491_BB</li> <li>PMUD3493_AB</li> </ul> |
| KP000218A02                    | Keypad (Cyrillic)              | PMUD3493_AG                                                                                             |
| KP000218A03                    | Keypad (Arabic)                | PMUD3493_AF                                                                                             |
| KP000218A05                    | Keypad (Simplified Chi- nese)  | PMUD3493_AC                                                                                             |
| KP000218A06                    | Keypad (Traditional Chi- nese) | PMUD3493_AD                                                                                             |
| KP000218A07                    | Keypad (Korean)                | PMUD3493_AE                                                                                             |
| 800/900                        |                                |                                                                                                         |
| KP000218A01                    | Keypad (Roman)                 | <ul style="list-style-type: none"> <li>PMUF2000_AB</li> <li>PMUF2000_BB</li> <li>PMUF2002_AB</li> </ul> |
| 350 MHz Band                   |                                |                                                                                                         |
| KP000218A01                    | Keypad (Roman)                 | <ul style="list-style-type: none"> <li>PMUD3531_AB</li> <li>PMUD3532_BB</li> </ul>                      |
| KP000218A05                    | Keypad (Simplified Chi- nese)  | PMUD3531_CC                                                                                             |

**Table 62:** Front Kit

| Motorola Solutions Part Number | Description | Super Tanapa 20 |
|--------------------------------|-------------|-----------------|
|--------------------------------|-------------|-----------------|

|           |                               |                                                                                                                                                                                    |
|-----------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UHF       |                               |                                                                                                                                                                                    |
| PMLN8238_ | Front Kit FKP UL              | <ul style="list-style-type: none"> <li>● PMUE5722_AB</li> <li>● PMUE5722_BB</li> </ul>                                                                                             |
| PMLN8239_ | Front Kit FKP Non-UL          | <ul style="list-style-type: none"> <li>● PMUE5724_AB</li> <li>● PMUE5724_AC</li> <li>● PMUE5724_AD</li> <li>● PMUE5724_AE</li> <li>● PMUE5724_AF</li> <li>● PMUE5724_AG</li> </ul> |
| PMLN8243_ | Front Kit NKP UL              | <ul style="list-style-type: none"> <li>● PMUE5723_AA</li> <li>● PMUE5723_BA</li> </ul>                                                                                             |
| PMLN8326_ | Front Kit NKP Basic           | <ul style="list-style-type: none"> <li>● PMUE5741_AA</li> <li>● PMUE5741_ZA</li> <li>● PMUE5741_YA</li> </ul>                                                                      |
| VHF       |                               |                                                                                                                                                                                    |
| PMLN8359_ | Front Kit FKP UL ITO Film     | <ul style="list-style-type: none"> <li>● PMUD3491_AB</li> <li>● PMUD3491_BB</li> </ul>                                                                                             |
| PMLN8366_ | Front Kit FKP Non-UL ITO Film | <ul style="list-style-type: none"> <li>● PMUD3493_AB</li> <li>● PMUD3493_AC</li> <li>● PMUD3493_AD</li> <li>● PMUD3493_AE</li> <li>● PMUD3493_AF</li> <li>● PMUD3493_AG</li> </ul> |
| PMLN8243_ | Front Kit NKP UL              | <ul style="list-style-type: none"> <li>● PMUD3492_AA</li> <li>● PMUD3492_BA</li> </ul>                                                                                             |
| PMLN8326_ | Front Kit NKP Basic           | <ul style="list-style-type: none"> <li>● PMUD3494_AA</li> <li>● PMUD3494_ZA</li> <li>● PMUD3494_YA</li> </ul>                                                                      |
| 800/900   |                               |                                                                                                                                                                                    |

|           |                      |                                                                                    |
|-----------|----------------------|------------------------------------------------------------------------------------|
| PMLN8238_ | Front Kit FKP UL     | <ul style="list-style-type: none"> <li>PMUF2000_AB</li> <li>PMUF2000_BB</li> </ul> |
| PMLN8239_ | Front Kit FKP Non-UL | PMUF2002_AB                                                                        |

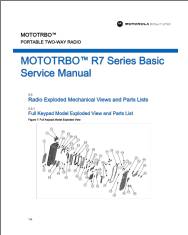
**Table 63:** Display Module

| Motorola Solutions Part Number | Description          | Super Tanapa 20                                                                    |
|--------------------------------|----------------------|------------------------------------------------------------------------------------|
| PMLN8243_                      | Front Kit NKP UL     | <ul style="list-style-type: none"> <li>PMUF2001_AA</li> <li>PMUF2001_BA</li> </ul> |
| PMLN8326_                      | Front Kit NKP Basic  | <ul style="list-style-type: none"> <li>PMUF2003_AA</li> <li>PMUF2003_ZA</li> </ul> |
| 350 MHz Band                   |                      |                                                                                    |
| PMLN8239_                      | Front Kit FKP Non-UL | <ul style="list-style-type: none"> <li>PMUD3531_AB</li> <li>PMUD3531_CC</li> </ul> |
| PMLN8238_                      | Front Kit FKP UL     | PMUD3532_BB                                                                        |
| PMLN8243_                      | Front Kit NKP UL     | PMUD3530_AA                                                                        |

| Motorola Solutions Part Number | Description                                                                      | Super Tanapa 20                                                                                                                                                                    |
|--------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UHF                            |                                                                                  |                                                                                                                                                                                    |
| DM000160A01                    | Display Module-LC, TFT- VA, 240 Pixels, 320 Pixels (UL)                          | <ul style="list-style-type: none"> <li>● PMUE5722_AB</li> <li>● PMUE5722_BB</li> </ul>                                                                                             |
| DM000160A02                    | Display Module-LC, TFT- VA, 240 Pixels, 320 Pixels (Non-UL)                      | <ul style="list-style-type: none"> <li>● PMUE5724_AB</li> <li>● PMUE5724_AC</li> <li>● PMUE5724_AD</li> <li>● PMUE5724_AE</li> <li>● PMUE5724_AF</li> <li>● PMUE5724_AG</li> </ul> |
| VHF                            |                                                                                  |                                                                                                                                                                                    |
| DM000160A03                    | Display Module-LC, TFT- VA, 240 Pixels, 320 Pixels (UL Display and ITO Film)     | <ul style="list-style-type: none"> <li>● PMUD3491_AB</li> <li>● PMUD3491_BB</li> </ul>                                                                                             |
| DM000160A04                    | Display Module-LC, TFT- VA, 240 Pixels, 320 Pixels (Non-UL Display and ITO Film) | <ul style="list-style-type: none"> <li>● PMUD3493_AB</li> <li>● PMUD3493_AC</li> <li>● PMUD3493_AD</li> <li>● PMUD3493_AE</li> <li>● PMUD3493_AF</li> <li>● PMUD3493_AG</li> </ul> |
| 800/900                        |                                                                                  |                                                                                                                                                                                    |
| DM000160A01                    | Display Module- LC, TFTVA, 240 Pixels, 320 Pixels (UL)                           | <ul style="list-style-type: none"> <li>● PMUF2000_AB</li> <li>● PMUF2000_BB</li> </ul>                                                                                             |

| Motorola Solutions Part Number | Description                                               | Super Tanapa 20                                                                    |
|--------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------|
| DM000160A02                    | Display Module-LC, TFTVA, 240 Pixels, 320 Pixels (Non-UL) | PMUF2002_AB                                                                        |
| 350 MHz Band                   |                                                           |                                                                                    |
| DM000160A01                    | Display Module- LC, TFTVA, 240 Pixels, 320 Pixels (UL)    | PMUD3532_BB                                                                        |
| DM000160A02                    | Display Module-LC, TFTVA, 240 Pixels, 320 Pixels (Non-UL) | <ul style="list-style-type: none"> <li>PMUD3531_AB</li> <li>PMUD3531_CC</li> </ul> |

## Documents / Resources

|                                                                                    |                                                                                                                                                                                           |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <a href="#">MOTOROLA SOLUTIONS R7 Series Portable Two Way Radio</a> [pdf] Instruction Manual<br>R7 Series, R7 Series Portable Two Way Radio, Portable Two Way Radio, Two Way Radio, Radio |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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