SUBASSEMBLY SERVICE MANUAL

MODEL 2609

MATTELELECTRONICS
5150 Rosecrans Avenue
Hawthorne, California 90250
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TOOLS AND EQUIPMENT REQUIRED

- Color TV Receiver
- Basic Electronic Hand Tools
- Digital Multimeter (DMM)
- Test Cartridge MTE-201
DIAGNOSTIC ROUTINE

SECTION I.
Follow this procedure until you find a malfunction. Then refer to the PRELIMINARY CHECKLIST (Section II, page 5) and TROUBLESHOOTING (Section III, page 6) and locate the problem or condition. Follow instructions to correct the fault. Before reassembling the Master Component, go through this DIAGNOSTIC ROUTINE again.

TURN ALL AUTOMATIC COLOR CIRCUITS TO MANUAL POSITION.

1. Connect the Master Component to TV, plug in power cord, set the Antenna Switch Box to TV and determine that the set works correctly on broadcast stations. If there is any problem, refer to the PRELIMINARY CHECKLIST.

2. Set the Antenna Switch Box to GAME. Set the Channel Select switch of the TV to the designated channel for the Master Component.

3. Insert the MTE-201 Test Cartridge. Slide the ON/OFF Switch to the ON position and depress the Reset Button on the Master Component. The unit will proceed through a series of checks.

4. At the completion of the above test sequence, the Hand Controller test display will appear as shown in Figure 1.

(a.) Press each key on the Hand Controllers, one at a time and verify that each corresponding test image turns from yellow to white when the appropriate key is depressed. NOTE: The right Hand Controller will affect the left test image and vice versa.

(b.) Press the top side buttons on the Hand Controllers one at a time. Make sure that the pair of Fs change from yellow to white.

(c.) Press each lower side button on the Hand Controllers one at a time and see that the letters L and R change from yellow to white.

(d.) Depress the directional disc on each Hand Controller and a white arrow will appear in the black circle. As the directional disc is rotated, the arrow will rotate. Check to see that the arrow points in 16 different directions.

(e.) Check the row of colored boxes for similarity as listed in Figure 1.

Next, depress the digit keys 1 and 9 simultaneously on either Hand Controller and the test sequence will proceed to the sound checks.

2. Blue 7. Yellow 12. Magenta

Figure 1 Hand Controller Test Pattern
5. Verify the following sequence of sounds is heard:

(a.) A low frequency rumble.

(b.) A high note stepping down through five octaves (repeated three times).

(c.) Random noise (hissing) starting at a high volume and diminishing slightly.

(d.) A single tone, starting at a high volume and diminishing slowly.

(e.) Two gunshots, one at normal volume, the second at half volume.

If all of these sounds are heard as described, depress the CLEAR key on either Hand Controller. In the event any part of the test has failed, depress the ENTER key. (NOTE: The test sequence cannot be advanced if the CLEAR or ENTER key is depressed while sounds are being generated.)

6. The next segment of the test presents a series of patterns, ending with the pattern illustrated in Figure 2. Check colors in the test pattern against Figure 2 for similarity and definition. If test pattern accuracy is satisfactory, press the CLEAR key. If it is unsatisfactory, press the ENTER key.

7. The next portion of the test sequence is a pattern of colored blocks with the two larger blocks alternating with the words MODE TWO, as illustrated in Figure 3. Check colors in test pattern against Figure 3 for similarity and definition. If test pattern accuracy is satisfactory, press the CLEAR key. If it is unsatisfactory, press the ENTER key.

8. The last test alternately flashes the patterns "F/B" and "VIS." Press CLEAR for pass or ENTER for fail.

If no failure has been detected, the title page for Baseball will appear; this indicates the Master Component has passed all the automatic and
operator tests. In the event a failure has been detected, instead of the title page being displayed, a display as shown in Figure 4 will appear or the test will indicate “Failure at Test ___” followed by a letter between A and Z. If either is displayed, refer to Section III-6, Page 9.

9. The next test is an actual game check to confirm the functional operation of the Master Component. When the title page for Baseball is displayed, follow the instructions provided with the MTE-201 Test Cartridge to play 1½ inning of Baseball.

Upon successful completion of the baseball game, the test routine for the Master Component is complete.

10. This Diagnostic Routine can be repeated—from the beginning—any time. Just press the RESET button.
**PRELIMINARY CHECKLIST**

**SECTION II:**
Before you refer to the TROUBLESHOOTING Section which follows, look at this list of possible quick solutions. Then, if any problem persists, you should be able to find it in TROUBLESHOOTING.

Turn ON/OFF Switch to ON and press RESET. With the Test Cartridge still inserted, go through the DIAGNOSTIC ROUTINE and check for these problems:

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCREEN IS BLANK</td>
<td>Press any key on either Hand Controller key pad to recover picture.</td>
</tr>
<tr>
<td>NO TV PROGRAMS</td>
<td>Check connection of cable from Antenna Switch Box to antenna connector on TV.</td>
</tr>
<tr>
<td></td>
<td>Make sure Antenna Switch Box is set at TV.</td>
</tr>
<tr>
<td></td>
<td>Make sure that coax cable is attached.</td>
</tr>
<tr>
<td>BUZZING OR DISTORTED SOUND</td>
<td>Adjust TV fine tuning controls.</td>
</tr>
<tr>
<td></td>
<td>If there is broadcast interference from a strong signal, disconnect antenna coax</td>
</tr>
<tr>
<td></td>
<td>from Antenna Switch Box. (This must be reconnected for broadcast viewing.)</td>
</tr>
<tr>
<td>NO GAME SOUND EFFECTS</td>
<td>Turn up TV volume control.</td>
</tr>
<tr>
<td></td>
<td>Adjust fine tuning.</td>
</tr>
<tr>
<td>WHITE-GRAY SCREEN OR SCREEN IS ONE COLOR</td>
<td>Make sure cartridge is properly inserted.</td>
</tr>
<tr>
<td>SNOWY SCREEN (NO RF CARRIER)</td>
<td>Make sure:</td>
</tr>
<tr>
<td></td>
<td>TV tuner is set on the proper channel.</td>
</tr>
<tr>
<td></td>
<td>Antenna Switch Box is set at GAME.</td>
</tr>
<tr>
<td></td>
<td>Game coax cable is properly plugged into Antenna Switch Box.</td>
</tr>
<tr>
<td></td>
<td>Power switch is ON.</td>
</tr>
<tr>
<td></td>
<td>Check all connections, including power plug.</td>
</tr>
<tr>
<td>TEST IMAGE NOT DISTINCT, AS IF FROM WEAK SIGNAL</td>
<td>Adjust fine tuning, brightness, and contrast controls.</td>
</tr>
<tr>
<td></td>
<td>Check connections at Antenna Switch Box, TV antenna connector, and game output connector.</td>
</tr>
<tr>
<td>TEST IMAGE BLURRED, WOBBLY, OR NO COLOR</td>
<td>Adjust fine tuning, brightness, contrast, and color.</td>
</tr>
<tr>
<td></td>
<td>If there is broadcast interference from a strong signal, disconnect antenna cable from Antenna Switch Box. (This must be reconnected for broadcast viewing.)</td>
</tr>
</tbody>
</table>
TROUBLESHOOTING

SECTION III

Find the Phrase in the left-hand column below which best describes the malfunction or condition you encountered. Follow each step of the related instructions. Then repeat the entire DIAGNOSTIC ROUTINE as described in Section I.

 MALFUNCTION/CONDITION  
1. NO TV PROGRAMS, NO INTELLIVISION TEST PATTERNS, SNOWY OR WHITE-GRAY SCREEN.

 SERVICE INSTRUCTIONS  
1.0 Verify that TV receiver works.
1.1 Disconnect Antenna Switch Box assembly and replace with a known good unit.
1.2 Disconnect Antenna Cable and replace with a good one.
1.3 Disassemble Master Component (See Section IV-A, Page 10).
1.4 Unplug Master Component and check ON/OFF switch for continuity.
1.5 When the Component is disassembled, perform the following test procedure:
   (a) Carefully remove 5-pin ribbon connector and 2-pin plug from the Power Supply Board (see Figure 5, Page 8).
   (b) Plug in Master Component and turn ON/OFF Switch to ON.
   (c) Connect negative probe of voltmeter to Ground Test Point on the Power Supply Board. Connect positive probe to +5 Volt Test Point. Refer to Figure 5. Meter should read 4.85-5.15 VDC.
   (d) With negative probe still on Ground, connect positive probe to +12 Volt Test Point. Meter should read 11.64-12.36 VDC.
   (e) With negative probe still on Ground, connect positive probe to +16 Volt Test Point. Meter should read at least +16 VDC.
   (f) Connect positive probe to ground and negative probe to -2.1 Volt Test Point. Meter should read 1.95-2.25 VDC.
   (g) Connect negative probe to ground and positive probe to +5.65 volt connector pin. Meter should read at least 12 VDC.
1. CONTINUED ..........................

(h) Turn power off. Reconnect 5-pin ribbon cable and 2-pin plug. Turn power on and remeasure voltage at +5.65 volt connector pin. Meter should read 5.45 - 5.85 VDC. If voltage is not within limits, turn off power and measure resistance of R2 (Figure 5). If OK, replace logic board. If not OK, troubleshoot power supply board.

(i) If voltages are present, replace the Logic Board (See Section IV-B, Page 10).

(j) If the above voltages are not present, remove the 5-pin Transformer Connector from the Power Supply Board. DO NOT push meter probes into socket holes to measure voltage or socket will be damaged. Touch meter probes to the slide contacts visible on the top of the socket to measure voltages. Set meter on AC, and check for these voltages:

- With probes in holes #3 and #1, meter should read 7.6 - 9.4 VAC RMS.
- With probes in holes #3 and #2, meter should read 7.6 - 9.4 VAC RMS.
- With probes in holes #4 and #5, meter should read 15.3 - 18.7 VAC RMS.

(k) If all voltages read as described in Step (j), repair or replace the Power Supply Board (See Section IV-C, Page 12).

(l) If any voltages differ from the values in Step (j), replace the Transformer Assembly (See Section IV-D, Page 12).

Verify that replacement of the Transformer Assembly and/or Power Supply Board has corrected any supply voltage problem by repeating steps (b) through (h) above.

If voltages are correct and a known-good Logic Board has been installed but symptoms persist, the fault could be with Power Connector J3 on the Power Supply Board.
MALFUNCTION/CONDITION

2. TEST PATTERNS OR GAME PICTURE JUMBLED, OR UNWANTED CHARACTERS ON SCREEN

3. NO SOUND OR GARBLED SOUND

4. BAD ON/OFF SWITCH

5. TEST CARTRIDGE DOES NOT RESPOND TO HAND-CONTROLLER(S)

SERVICE INSTRUCTIONS

2.1 Follow Procedure 1.5 (a) thru (I) (See Section III-I, Page 6).

3.1 Make sure that TV volume is turned up, and that sounds on broadcast stations are good.

3.2 Replace Logic Board (See Section IV-B, Page 10).

4.1 Replace Transformer Assembly (See Section IV-D, Page 10).

5.1 Replace Hand Controllers (See Section IV-B, Page 10).

5.2 If Procedure 5.1 doesn't cure the problem, replace Logic Board (See Section IV-B, Page 10).
MALFUNCTION/CONDITION

6. TEST INDICATES FAILURE IN PARTS OTHER THAN HAND-CONTROLLERS

7. NO APPARENT FAILURE — ALL TESTS PASS

SERVICE INSTRUCTIONS

6.1 Replace Logic Board (See Section IV-B, Page 10).

7.1 Insert customer's game cartridge in Component and watch for: mistakes in lettering on title picture, jumbled play-field, or unwanted characters. Test with a known-good Game Cartridge. If problems continue, follow Procedure 1.5 (a) thru (l), Section III-1, Page 6. If problems do not appear, customer's cartridge is defective.

7.2 NOTE: FOLLOW THIS STEP FOR SHOP SERVICE ONLY:
Insert MTE-201 Test Cartridge and press Reset. Run the diagnostic tests until the television screen shows the title page for Baseball (the screen will show "Mattel Electronics presents Baseball"). DO NOT touch any keys or switches. Disconnect or turn off the TV set and let the Master Component burn-in for 90 minutes.

After 90 minutes, re-connect or turn on the television set. The title page should be seen on the television screen. Press Reset and run the diagnostic tests and play ⅝ inning of baseball. If the results again show no failures, the Master Component is considered to be GOOD.

IMPORTANT REMINDER

After completing any TROUBLESHOOTING or DISASSEMBLY, always go through the DIAGNOSTIC ROUTINE described in Section I before reassembling the unit.

8. TEST CARTRIDGE CHECK

8.1 Should you suspect the MTE-201 Test Cartridge to be defective, it can be tested as follows: Depress keys 2 and 8 simultaneously when the Hand Controller Test is displayed (Figure 1) and a checksum will be displayed. The display should look like this:

CART CHECKSUM LO=
00002371677
CART CHECKSUM HI=
00003372642

If any other numbers appear or the numbers differ, it indicates a failure in the test cartridge and another cartridge should be used.
DISASSEMBLY INSTRUCTIONS

SECTION IV:

WARNING:
Use care when connecting or disconnecting hand controller connectors from logic board. Do not touch the pins on the logic board as static discharge may damage internal circuitry.

A. CONSOLE DISASSEMBLY
Be sure unit is unplugged before disassembly.
(1) Turn Console upside down and loosen (6) Phillips head screws.
(2) Turn Console right-side up, allow the (6) screws to fall out, then pull upon the ON/OFF glamour cap to remove. **DO NOT remove the RESET button.**
(3) Remove top case and slip Hand Controllers through openings.

**NOTE:** When re-assembling Console, replace Hand Controller tray first. Refer to Figure 6 for position of Controller wires.

B. LOGIC BOARD OR HAND CONTROLLERS REPLACEMENT
(1) Follow Console Disassembly procedure above — steps (1) through (3).
(2) Remove (6) screws from Hand Controller tray, and remove the tray.
(3) Disconnect Switch Box cable from console and remove any cartridge.
(4) Carefully disconnect the 5-pin ribbon connector and the 2-pin connector from Power Supply Board.

*The Logic Board and metal shields go together. DO NOT try to separate them.*

(5) Lift Logic Board straight up. Carefully disconnect Hand Controllers (if a problem exists in just one Controller, it is not necessary to remove both of them). When replacing Connectors to Logic Board, the Connector must be inserted according to the illustration in Figure 6, page 11.
Pin No. | Wire Color
---|---
1 | Brown

Figure 6
C. POWER SUPPLY BOARD REPLACEMENT
(1) Remove (6) screws from Hand Controller tray. Remove the tray.
(2) Carefully disconnect the 5-pin ribbon connector, the 2-pin connector and the 5-pin transformer connector from the Power Supply Board.
(3) Remove (2) screws from the Power Supply Board and replace the Board (but not the Hand Controller tray — yet).

* SAFETY PRECAUTION *
FIBER INSULATOR(S) MUST BE PROPERLY REPLACED UNDER POWER SUPPLY BOARD. IF UNIT WAS EQUIPPED WITH TWO INSULATORS, BE SURE THAT BOTH ARE REPLACED.

D. TRANSFORMER ASSEMBLY REPLACEMENT
NOTE: Unplug Master Component before attempting parts replacement.
(1) Disconnect 5-pin Ribbon Connector from Logic and Power Supply Boards.
(2) Unscrew the Hand Controller tray and Power Supply Board.
(3) Remove the Power Supply Board and any insulation underneath it.
(4) Remove the 5-pin Transformer connector from Power Supply Board.
(5) Remove (4) screws, 2 from the Transformer and 2 from the ON/OFF switch.
(6) Replace the Transformer Assembly, reversing the above steps.

IMPORTANT REMINDER
After completing any TROUBLESHOOTING or DISASSEMBLY, always go through the entire DIAGNOSTIC routine described in Section I before reassembling the unit.
HAND CONTROLLER REPAIR

IMPORTANT: Make sure foreign material . . . dirt, dust, etc., does not come in contact with the circuit matrix or other plastic parts.

Unplug Master Component from power source. Disconnect switch box cable.

(a.) Disassembly: Turn the Hand Controller upside down on a flat surface and hold it firmly. Use a Phillips-head screw driver to remove the 4 screws. Remove bottom screws first. Set all 4 screws aside in a safe place. Refer to Figure 7 below.

Figure 7

Figure 8
(1) While holding the top and bottom housings together, turn the Hand Controller right side up. Set it back on a flat surface. (See Figure 9.)

![Figure 9](image1)

(2) Carefully lift the top off and set it aside. Hold the number keypad and the Gold Directional Disc in place with one hand.

(3) Remove the Gold Directional Disc and Spring.

(4) Remove the Action Buttons from both sides.

(5) Remove the static shield and the circuit matrix from the lower housing. (See Figure 8.)

(6) Remove the cable from the lower housing by lifting the cable strain relief up and out of the housing. Pry up the cable connector block from its mount in the housing. **CAUTION:** Be careful not to touch or bend the metal prongs. (See Figures 10 and 11.)

![Figure 10](image2)

(7) If bottom housing has a raised lip around the directional disc guidepost, replace the bottom housing.
(b.) Component Replacement and Reassembly.

(1) Place the replacement cable assembly in the lower housing as shown in Figures 10 and 11.

(2) Make sure the replacement circuit matrix is correctly folded as shown in Figure 12 below.

Apply foam tape (2609-6159) to circuit matrix as required. Refer to Figure 13. Install the circuit matrix as shown in Figure 8 and make sure it fits snugly over the top and bottom posts.

Foam tape is to be applied directly to the folded circuit matrix. Tape is to be captured between matrix and domed legend, and pressed to secure its position. Refer to Figure 13.

CAUTION: AVOID EXCESSIVE FOLDING OR HANDLING OF THE CIRCUIT MATRIX.
(3) Install the static shield over the folded circuit matrix, making sure the posts go through both sets of holes (shield and matrix). Refer to Figure 8. Hold the matrix and shield in place with fingers.

(4) Install the keypad over the matrix and static shield. Again make sure both posts go through keypad holes.

(5) Check that the components are correctly installed. Place the washer under the top layers of the circuit matrix and over the directional disc post as shown in Figure 8.

(6) Press action buttons firmly in position. The scalloped edge should be on the BOTTOM, FACING INWARD. The buttons will only fit one way. Refer to Figure 14 below.

(7) Mount the spring and Directional Disc. Refer to Figure 8.

(8) Before reinstalling the top housing, make sure the circuit matrix and keypad are securely in place so that the top and bottom holes fit over the small brown posts. See Figure 15.

(9) Install the top housing. Hold the top and bottom securely together while you turn the Hand Controller over. Replace the 4 screws, TOP SCREWS FIRST. Tighten until firmly in place. This is important to make all the circuit connections. DO NOT OVERTIGHTEN.

(10) Connect the Hand Controller to a working M/C and using the MTE-201 Test Cartridge, check for proper operation.
NOTES:
1. ALL RESISTANCE VALUES ARE IN OHMS.
2. ALL CAPACITANCE VALUES ARE IN MICROFARADS.
### PARTS LIST

<table>
<thead>
<tr>
<th>REF. NO.</th>
<th>DESCRIPTION</th>
<th>PART NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Logic Board Assembly</td>
<td>2609-9169</td>
</tr>
<tr>
<td>2</td>
<td>Power Supply Board Assembly</td>
<td>2609-9539</td>
</tr>
<tr>
<td>C1</td>
<td>Capacitor, 10,000uF 16V Elect.</td>
<td>0085-0005</td>
</tr>
<tr>
<td>C2</td>
<td>Capacitor, 100uF 16V Elect.</td>
<td>0085-0004</td>
</tr>
<tr>
<td>C3</td>
<td>Capacitor, 2200uF 25V Elect.</td>
<td>0085-0006</td>
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<tr>
<td>C4-C10</td>
<td>Capacitor, 0.1uF 25V</td>
<td>0085-1510</td>
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<tr>
<td>C11-C12</td>
<td>Capacitor, 0.22uF 25V</td>
<td>0085-1410</td>
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<tr>
<td>R1</td>
<td>Resistor, 220 ohm ½W 5%</td>
<td>0095-0576</td>
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<td>Resistor, 12 ohm 3W 10% WW</td>
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<td>Diode, IN4001</td>
<td>0099-1030</td>
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<td>CR9</td>
<td>Diode, Zener IN746</td>
<td>0086-0425</td>
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<td>Diode, IN4001</td>
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<td>P2</td>
<td>Plug, 5 pin</td>
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<td>J3</td>
<td>Jack, 5 pin</td>
<td>0099-0390</td>
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<td>Plug, 2 pin</td>
<td>0089-0007</td>
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<td>I.C. uA 7805</td>
<td>0098-2130</td>
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<td>Small Heatsink for U1</td>
<td>0099-0310</td>
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<td>U1</td>
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<td>0089-0606</td>
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<td>I.C. LM 340T12</td>
<td>0098-2140</td>
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<td>U2</td>
<td>Heatsink for U2</td>
<td>0099-1570</td>
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<tr>
<td>3</td>
<td>Transformer ON/OFF Switch Assembly</td>
<td>2609-9629</td>
</tr>
<tr>
<td>4</td>
<td>ON/OFF Switch</td>
<td>2609-9559</td>
</tr>
<tr>
<td>5</td>
<td>Tray</td>
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<tr>
<td>6</td>
<td>Top Housing Assembly</td>
<td>2609-9719</td>
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<tr>
<td>7</td>
<td>Inlay, Plain</td>
<td>2609-4529</td>
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<tr>
<td>8</td>
<td>Spring, Reset</td>
<td>2609-4269</td>
</tr>
<tr>
<td>9</td>
<td>Button Reset</td>
<td>2609-2129</td>
</tr>
<tr>
<td>10</td>
<td>Glamor Cap, ON/OFF Switch</td>
<td>2609-2139</td>
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<td>11</td>
<td>Inlay, Control</td>
<td>2609-4519</td>
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<tr>
<td>12</td>
<td>Pushnut Fastener</td>
<td>0405-0852</td>
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<tr>
<td>13</td>
<td>Foot</td>
<td>2609-9489</td>
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<td>14</td>
<td>Handcontroller Assembly</td>
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<td>Top Housing</td>
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<td></td>
<td>Direction Disc w/Inlay</td>
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<tr>
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<td>Side Action Button</td>
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<td>Keypad (Domed Legend)</td>
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<td>Static Shield</td>
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<td>Circuit Matrix</td>
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<td>Foam Tape</td>
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<td>Mylar Washer</td>
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<td>Cable Assembly</td>
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<td>Bottom Housing</td>
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<td>Screw, 5-20 x 7/16 in.</td>
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<tr>
<td></td>
<td>R.F. Cable</td>
<td>2609-9599</td>
</tr>
</tbody>
</table>
EXPLODED VIEW

Unit must be unplugged prior to attempting disassembly and/or replacement of parts.

EXPLODED VIEW . . . . . . . Console Assembly

-20-