TITLE MITER SAW BULLETIN

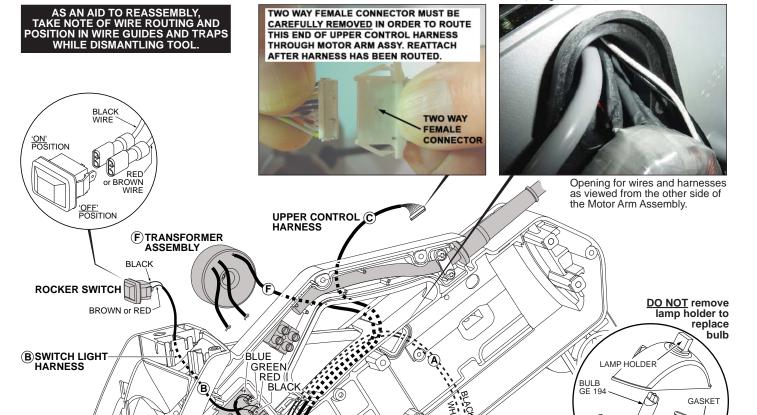
MILWAUKEE ELECTRIC TOOL CORP. 13135 WEST LISBON RD. BROOKFIELD, WIS.

DATE Aug. 2008 58-01-6900

LENS

AWORKLIGHT
HARNESS

LIGHT REFLECTOR



(A) Worklights Harness Cat. No. 23-94-8000

DIGITAL READOUT (DRO) PCB

• Connect 4 wire connector block to DRO (Digital Readout) PCB, Cat. No. 22-09-1060.

CONNECT TO OTHER LIGHT REFLECTOR

Route black and white wires with lamp holders (2 places) as shown.
 Connect lamp holders to Light Reflector, Cat. No. 44-79-0040 (2 places).
 When replacing bulb, service through the lens side of assembly (see detail).
 DO NOT remove lamp holder to replace bulb! Use GE 194 Automotive Bulb.

With Light Reflector in place, remove slack and route wires in this area to be held in place behind the Motor Control PCB.

B Light Switch Harness Cat. No. 23-94-8005

- Connect 2 wire connector block to DRO (Digital Readout) PCB, Cat. No. 22-09-1060.
- Route wire harness as shown and connect black wire to the 'ON' terminal of the Rocker Switch, Cat. No. 23-66-3040. The other wire is red or brown and should be connected to the 'OFF' terminal.

C Upper Control Harness Cat. No. 23-94-8012

- Connect larger connector block to DRO (Digital Readout) PCB, Cat. No. 22-09-1060.
- Route wire harness as shown. The smaller connector block will attach to the Table Harness, Cat. No. 23-94-8027 (6955-20) or Cat. No. 23-94-8032 (6950-20). The two harnesses are joined by a double female adapter (see detail) that must be removed in order for the Upper Control Harness to pass through the top of Bevel Arm Assembly.

F Transformer Cat. No. 23-81-0580

 Route wire harness as shown and attach two wire connector block to DRO (Digital Readout) PCB, Cat. No. 22-09-1060 TITLE MITER SAW BULLETIN

MILWAUKEE ELECTRIC TOOL CORP.

Cat. No. 23-81-0580

Cat. No. 22-09-1590.

· Route wire harness as shown and attach four wire

connector block to Motor Control PCB,

13135 WEST LISBON RD. BROOKFIELD, WIS.

58-01-6900

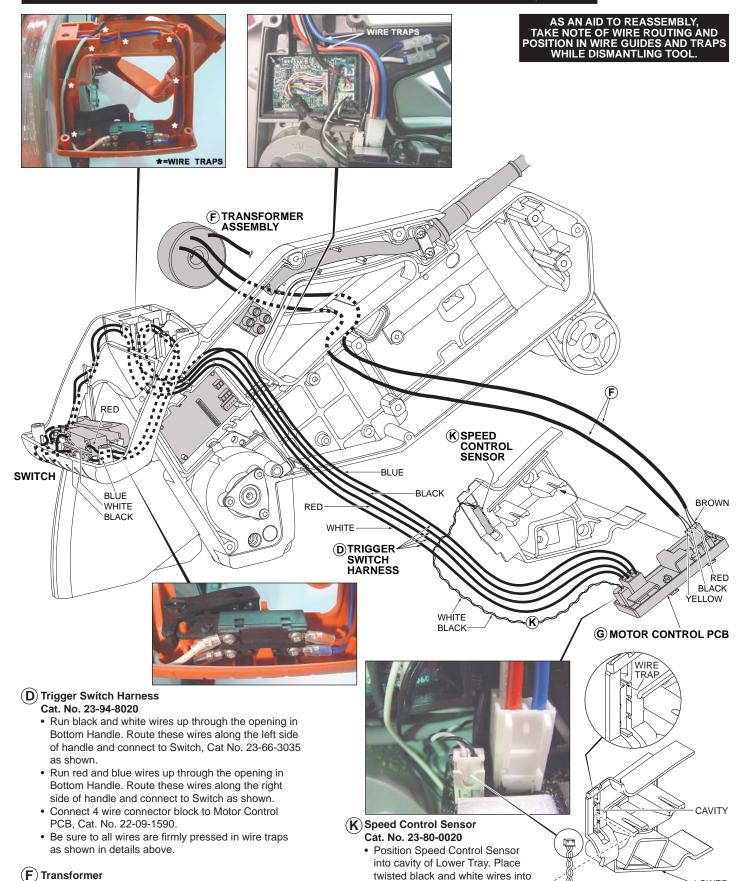
LOWER

TRAY

SPEED

CONTROL

SENSOR



trap above the cavity (see detail).

• Attach the two wire connector

block to Motor Control PCB.

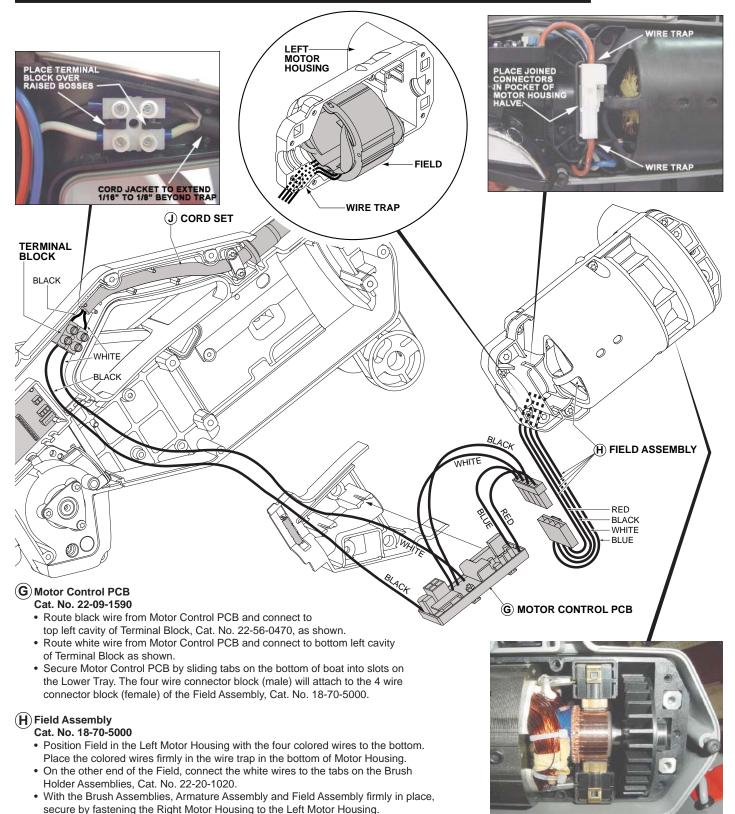
Cat. No. 22-09-1590.

PAGE 3 OF 7

TITLE MITER SAW BULLETIN

MILWAUKEE ELECTRIC TOOL CORP. 13135 WEST LISBON RD. BROOKFIELD, WIS.

58-01-6900



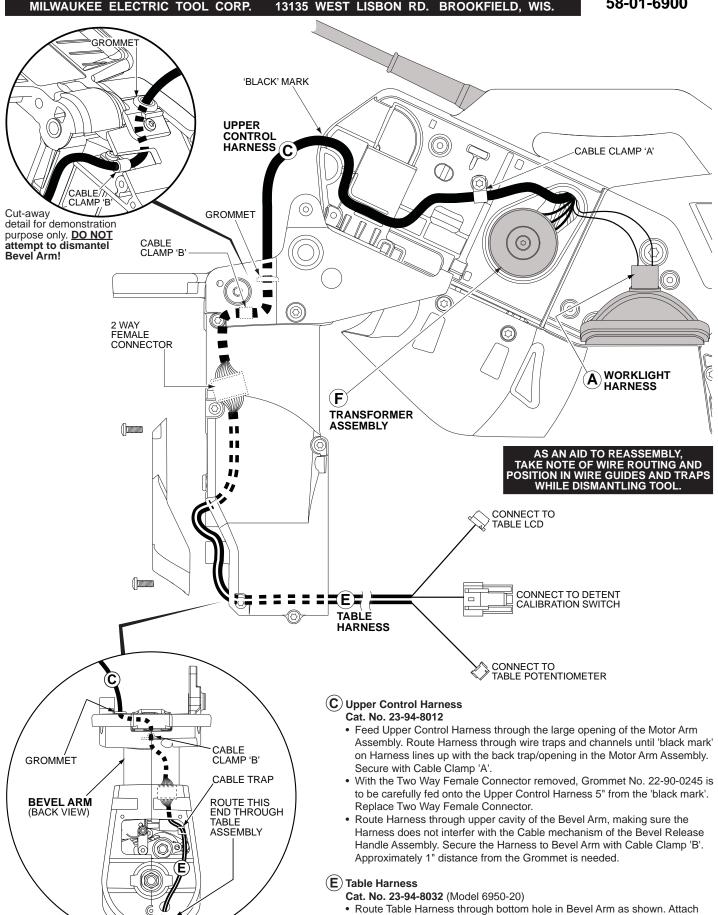
(J) Cord Set

Cat. No. 22-64-6495

- Route Cord Set in traps as shown, allowing cord jacket to extend 1/16" to 1/8" beyond the last trap. Secure the Cord Set with Cord Clamp.
- Connect black wire from Cord Set to top right cavity of Terminal Block and connect white wire to the bottom right of the Terminal Block.
- Place the Terminal Block with all wires attached over the raised bosses in the Upper Tray (see illustration).

 Attach 4 wire connector block (female) of the Field Assembly to the corresponding male connector block of the Motor Control PCB. Push joined connectors and wires into exterior cavity/wire traps of the Right Motor Housing (see illustration). TITLE **MITER SAW BULLETIN**

MILWAUKEE ELECTRIC TOOL CORP. 13135 WEST LISBON RD. BROOKFIELD, WIS. 58-01-6900



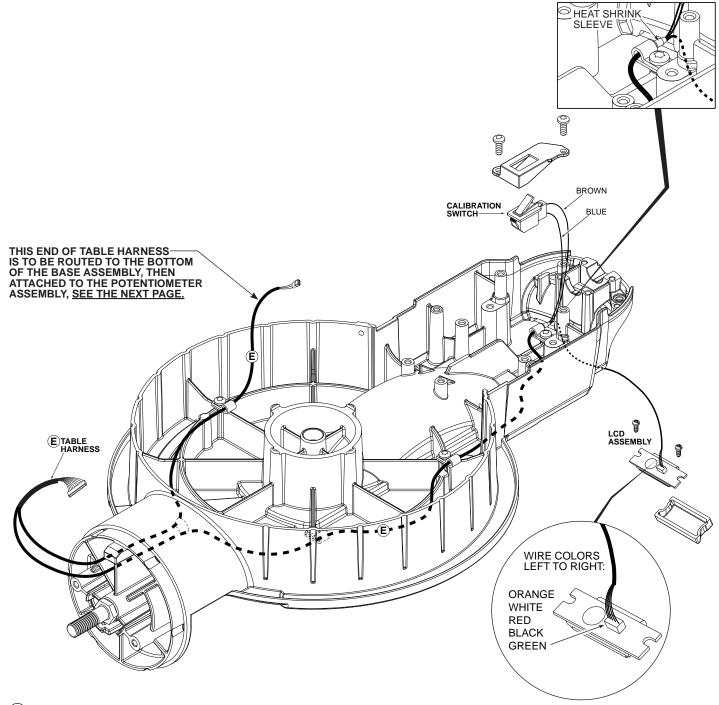
to Upper Control Harness and place connection block area inside Bevel Arm

cavity as illustrated.

TITLE MITER SAW BULLETIN

MILWAUKEE ELECTRIC TOOL CORP. 13135 WEST LISBON RD. BROOKFIELD, WIS.

58-01-6900



(E) Table Harness

Cat. No. 23-94-8032 (Model 6950-20)

- Route the two sleeves of the Table Harness through the back of the upside down Table Assembly, as shown.
- Route the sleeve with 3 wires (red, white and black) to the left side of the Table. Remove slack and secure the sleeve to the Table with a Cable Clamp. The balance of the sleeve is to be routed into the Base Assembly, secured to the Base and connected to the Potentiometer Assembly No. 23-45-0015, see the next page.
- Route the other sleeve of the Table Harness to the right side of the Table. Secure the sleeve with 3 Cable Clamps, fasten the end of the sleeve directly behind the heat shrink sleeve (see detail).
- Attach the two wire connector block (brown and blue) to the Calibration Switch.
- Route the five wire portion of the harness (orange, white, red, black and green) through the opening in the front of the Table Assembly and connect to the LCD Assembly.

AS AN AID TO REASSEMBLY, TAKE NOTE OF WIRE ROUTING AND POSITION IN WIRE GUIDES AND TRAPS WHILE DISMANTLING TOOL. TITLE MITER SAW **BULLETIN**

58-01-6900 MILWAUKEE ELECTRIC TOOL CORP. 13135 WEST LISBON RD. BROOKFIELD, WIS. 9 *Flat side of the Potentiometer brass shaft must be positioned / turned 180° CABLE ATTACHMENT POTENTIOMETER COVER from cable attachment wires prior to installing shaft into Tolerance Ring. Failure to properly position the POTENTIOMETER brass shaft will limit the **HARNESS** adjustment range. BRASS SHAFT **POTENTIOMETER** FLAT TOLERANCE TABLE POTENTIOMETER PLATE Place all of the SQUARE HOLE Potentiometer **TOLERANCE RING** Assembly, the connector blocks **TABLE** TABLE BOLT and any excess Table Harness HARNESS (E) **BELLEVILLE SPRINGS** cable in this area COMPOUND MITER BASE **Use Special Service Fixture No. 61-10-0105 to reset the Digital Readout (DRO) Board. Insert fixture into the small square hole located in the Motor Case Cover as shown. (E) Table Harness Cat. No. 23-94-8032 (Model 6950-20) · Route Table Harness through bottom of Base and secure to Base with Cable Clamp as illustrated. Connect Table Harness to the Potentiometer Assembly. (L) Potentiometer Assembly Cat. No. 23-45-0015 (Model 6950-20) Adjustment of "zero" on Base Potentiometer: THRUST Position the shaft of the Potentiometer Assembly with the **BEARING** flat parallel to lead tabs and facing away from cable lead wires. (Refer to picture example). Install shaft of the Potentiometer Assembly into the center opening of *Table Bolt and place two screws through the Potentiometer Plate 180° apart. Tighten each screw down until the head of each screw are just touching the plate. *(Tolerance Ring must be inside opening in the Table Bolt and around the shaft of the Potentiometer. With tool unplugged and Table in the "0" position, insert service fixture No. 61-10-0105 into the small square hole located in **Motor Case Cover. Plug tool into power source. View LCD while turning Potentiometer Plate until digital read out reads 1° or less. · While holding the Potentiometer Plate steady, securely tighten the two mounting plate screws referenced in paragraph above. Place any excess cable from Table Harness and all cable from the Potentiometer Assembly COMPOUND MITER TABLE

into center hub area under Base. (Be sure that the connector blocks joining both cables are positioned in the center hub area). Place Cover

over Potentiometer Assembly and secure using

two screws.

S AN AID TO REASSEMBLY, NOTE OF WIRE ROUTING AND POSITION IN WIRE GUIDES AND TRAPS WHILE DISMANTLING TOOL

TITLE **MITER SAW BULLETIN** 58-01-6900

MILWAUKEE ELECTRIC TOOL CORP. 13135 WEST LISBON RD. BROOKFIELD, WIS.

SIMPLIFIED WIRING SCHEMATIC (For Reference Only)

