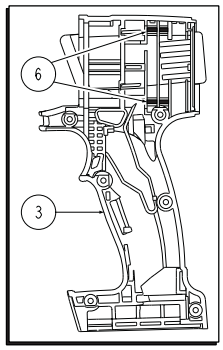
SERVICE PARTS LIST

BULLETIN NO. 54-26-2711

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS	REVISED BULLETIN	DATE
18 Volt 1/2" Square Impact Driver	54-26-2710	Jan. 2011
CATALOG NO. 2652-20 STARTING SERIAL NO. **B78B**	WIRING INSTRUCTION **SEE PAGE 3**	

00 0 **EXAMPLE:** Component Parts (Small #) Are Included When Ordering The Assembly (Large #).

★ = **Part number change** from previous service parts list.



Place Rubber Slugs (6) as shown, four in each handle half (2,3).

FIG.	LUBRICATION (Type 'J' Grease, No. 49-08-4220):
21,26	Lightly coat the I.D. of the Ring Gear (21) and the center of the two Planet Gears (26) with grease.
27	Place a dab of grease in the ball grooves of the Cam Shaft (27).
35,36	Lightly coat the front washer surface of Anvil (36) with grease, place a dab in the Needle Bearing inside the Anvil.
45	Coat inside grooves of Bushing (45) with grease.

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
★ 1	31-44-2435	Handle Assembly	(1)
2	----------	Left Handle Half	(1)
3	----------	Right Handle Half	(1)
4	42-52-0062	End Cap	(1)
5	45-24-0300	Forward / Reverse Shuttle	(1)
6	45-30-0250	Rubber Slug	(8)
7	42-70-5150	Belt Hook	(1)
8	40-50-1090	Spring	(1)
9	----------	Contact Block	(1)
★ 10	23-66-2830	Switch	(1)
★ 11	23-66-1238	Switch/Brush Card Assembly	(1)
★ 13	----------	LED Assembly	(1)
★ 15	22-22-1550	Brush Card Assembly	(1)
16	16-01-3010	Service Armature Assembly	(1)
17	18-01-3010	Service Field	(1)
★ 18	----------	PCB Assembly	(1)
19	14-30-0920	Gear Box Assembly	(1)
20	----------	Rear Case	(1)
21	----------	Ring Gear	(1)
22	----------	Retaining Ring	(1)
23	----------	Ball Bearing	(1)
24	----------	Washer	(1)
25	----------	Pin	(2)
26	----------	Planet Gear	(2)
27	----------	Cam Shaft	(1)
28	----------	3/16" Steel Ball	(2)
29	----------	Washer	(1)
30	----------	Compression Spring	(1)
31	----------	Washer	(1)
32	----------	3.0mm Steel Ball	(30)
33	----------	Hammer	(1)
35	----------	Needle Bearing	(1)
36	42-06-0650	1/2" Square Drive Anvil Assembly	(1)
37	40-50-8320	Detent Spring	(1)
42	45-88-2025	Front Washer	(1)
43	28-50-0900	Front Case Sub-Assembly	(1)
44	----------	Retaining Ring	(1)
45	----------	Bushing	(1)
46	----------	Front Case	(1)

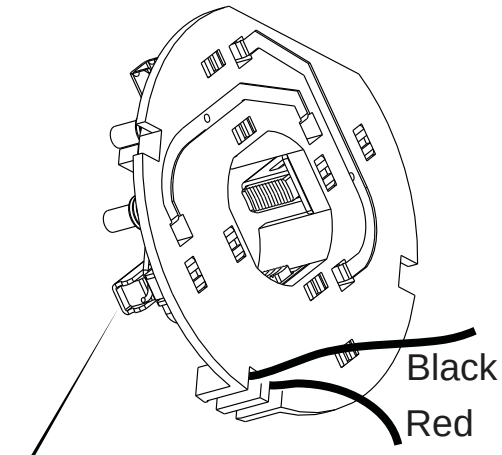
FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
47	06-82-7010	8-18 x 24 Pan Hd. Screw	(4)
48	44-60-1170	Detent Pin	(1)
55	06-82-6350	M3 Pan Hd. T-10 Screw	(7)
56	06-82-7336	M3 Pan Hd. T-10 Screw	(4)
57	06-82-5275	6-32 x 5/16" Slt. Pan Hd. T-15 Screw	(1)
59	12-20-2650	Service Nameplate Kit	(1)
60	10-20-2695	Warning Label	(1)
65	02-02-1300	5mm Steel Ball	(1)
67	42-55-2650	Carrying Case	(1)
68	40-50-2170	Brush Spring - Right Handed	(2)
69	40-50-2175	Brush Spring - Left Handed	(2)
★ 70	23-66-1239	Switch and Housing Kit	(1)
★ 71	14-46-1710	Cam Shaft/Hammer Kit	(1)

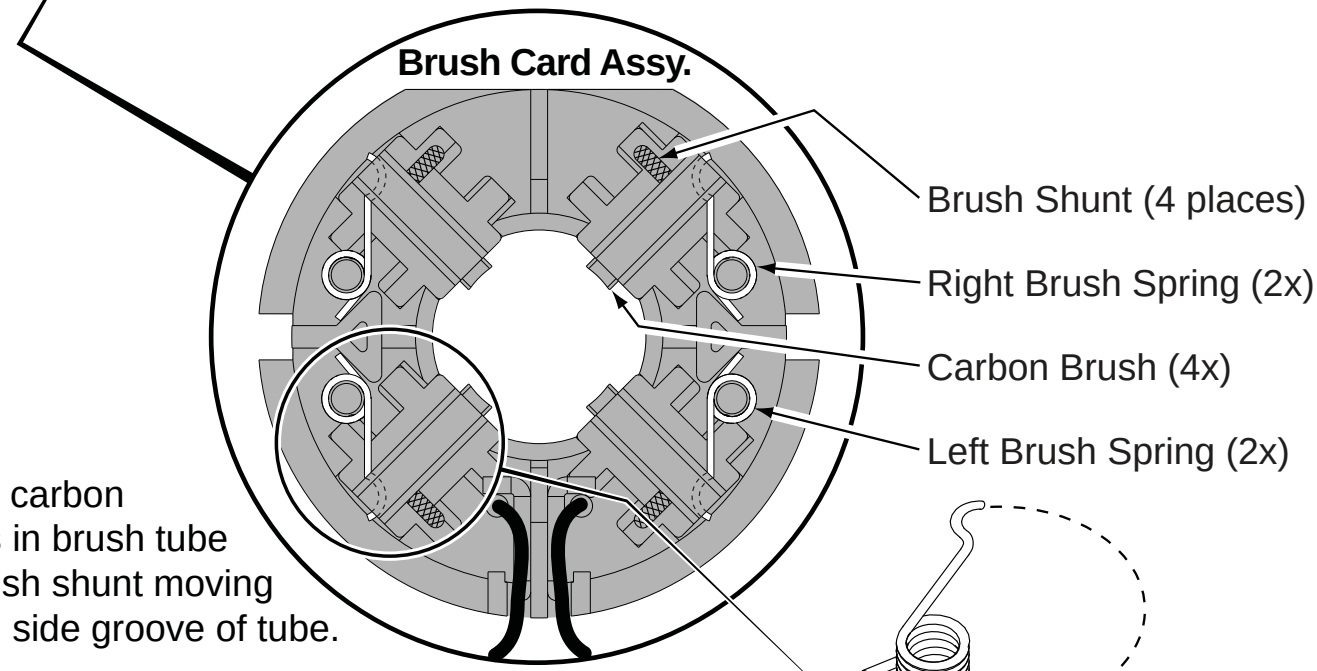
FIG.	NOTES:
15,16,17	See service note and illustration on the back of bulletin to aid with the removal and installation of the the Brush Card (15), Armature (16) and Field (17).
17	Field (17) to be positioned with side cut-outs to the front.
20,21	Position Ring Gear (21) with three lugs face down to interlock in the bottom of Rear Case (20).
20,46	Be sure to match the raised contours on the bottom of Rear Case (20) with raised contour on the bottom of the Front Case (46) when assembling.
29,30	Make sure concave side of Washer (29) faces Spring (30).
42,46	Tappered end of Front Washer (42) to face Front Case (46).

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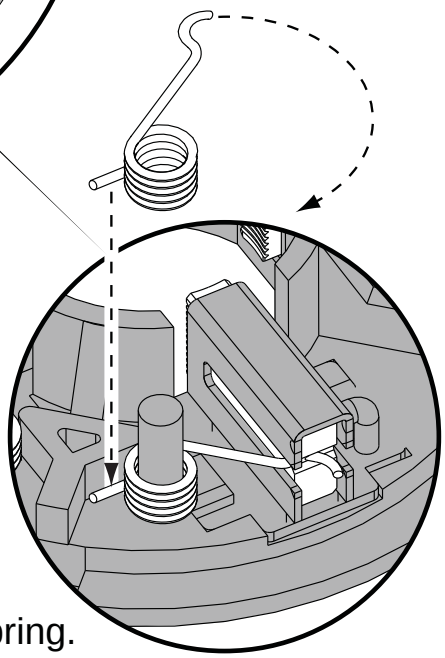
INSTALLING BRUSH SPRINGS ON A BRUSH CARD ASSEMBLY WITH FOUR (4) BRUSHES

There are two 40-50-2170 RH Brush Springs and two 40-50-2175 LH Brush Springs. Follow the instructions below for proper installation.



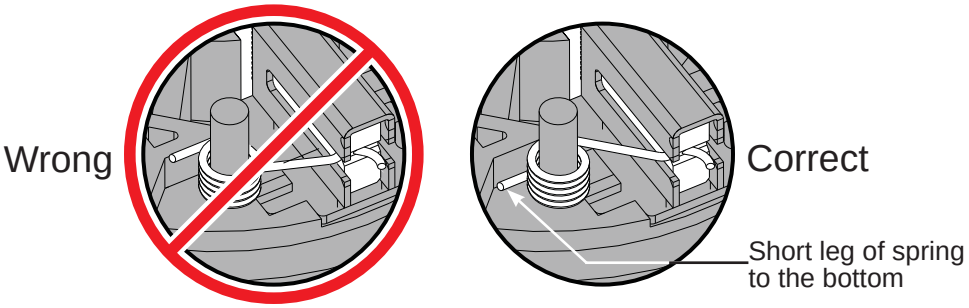


Be sure carbon brush is in brush tube with brush shunt moving freely in side groove of tube.



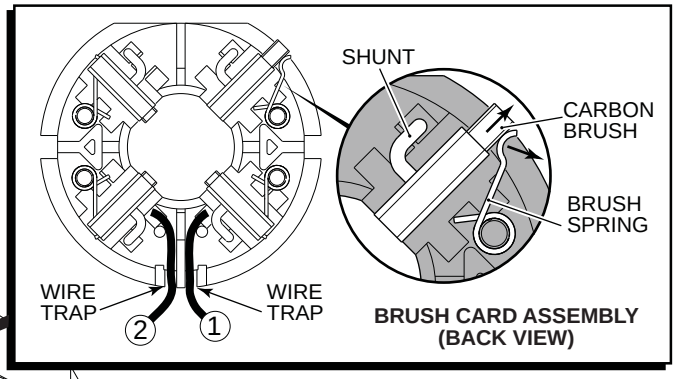
Place brush spring over post with short leg positioned downward as shown. Be sure spring is completely down with short leg trapped against 'Y' shaped wall on brush card.

While holding spring in place, bring the long leg of spring over the brush tube and through rear opening of tube. Position rounded hook of spring in groove on back of carbon brush. Be sure to check for free movement between carbon brush, brush shunt and brush spring.



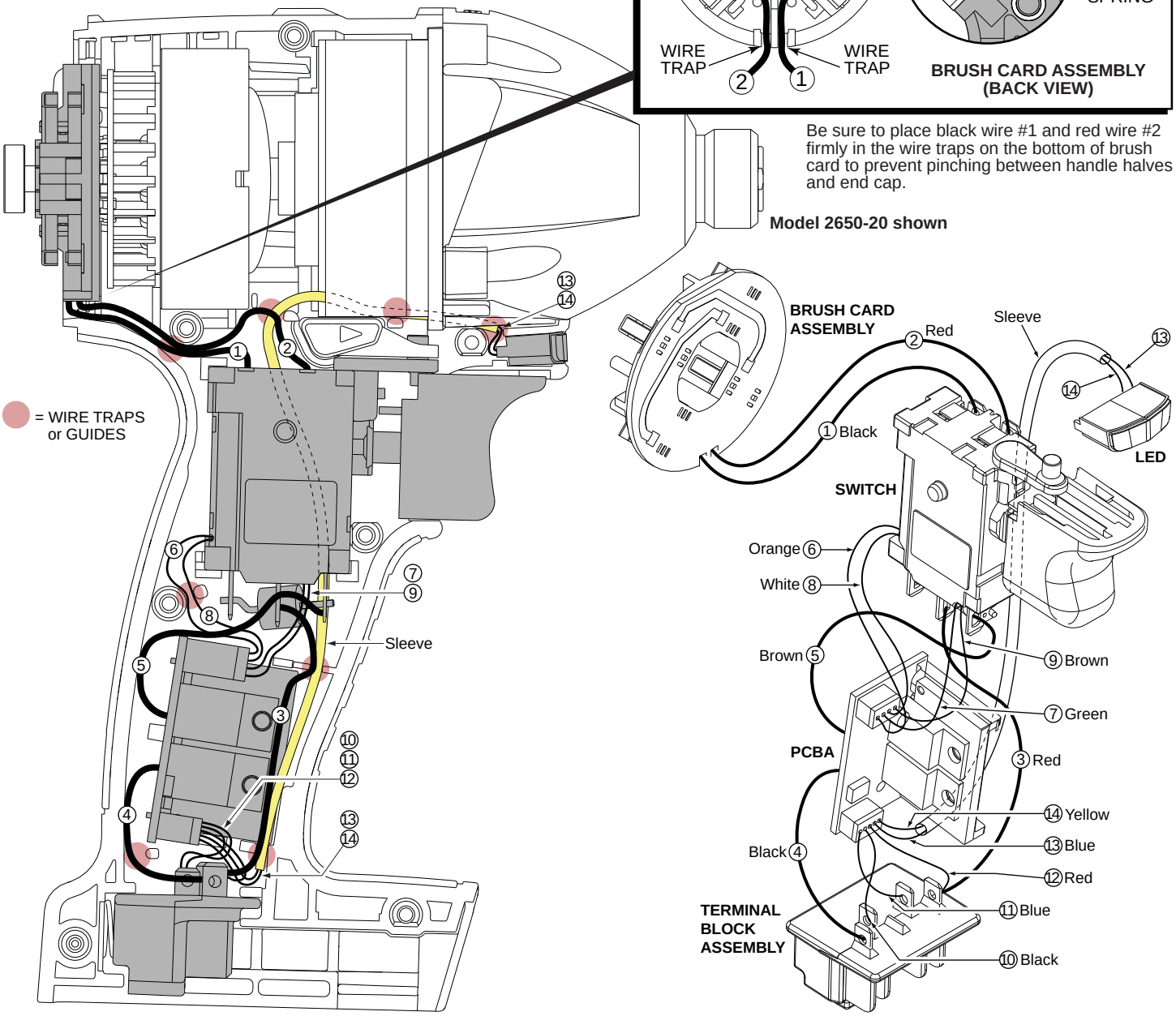
NOTE: Before attempting to remove armature or brush card assembly- Pull brush back until the brush spring slides from the back of the brush, onto the side of the brush as shown. (Do this to all four brushes). This will hold brushes out of the way for ease of servicing and will help prevent damage to the carbon brushes and the commutator of the armature.

To reinstall components, orient the Field with the cut-outs facing forward, place the Armature into the Field prior to assembling onto the Brush Card Assembly. Make sure that all brushes are returned to the proper position once Brush Card, Armature and Field are properly seated in the Left Handle Half.



Be sure to place black wire #1 and red wire #2 firmly in the wire traps on the bottom of brush card to prevent pinching between handle halves and end cap.

Model 2650-20 shown



WIRING SPECIFICATIONS

Wire No.	Wire Color	Origin or Gauge	Length	Terminals, Connectors and 1 or 2 End Wire Preparation
1	Black	-----	-----	Component of Brush Card Assy. Connect to M2 on Switch.
2	Red	-----	-----	Component of Brush Card Assy. Connect to M1 on Switch.
3	Red	-----	-----	Component of Switch/Brush Card/Terminal Block Assembly.
4	Black	-----	-----	Component of Switch/Brush Card/Terminal Block Assembly.
5	Brown	-----	-----	Component of Switch/Brush Card/Terminal Block Assembly.
6	Orange	-----	-----	Component of Switch/Brush Card/Terminal Block Assembly.
7	Green	-----	-----	Component of Switch/Brush Card/Terminal Block Assembly.
8	White	-----	-----	Component of Switch/Brush Card/Terminal Block Assembly.
9	Brown	-----	-----	Component of Switch/Brush Card/Terminal Block Assembly.
10	Black	-----	-----	Component of Switch/Brush Card/Terminal Block Assembly.
11	Blue	-----	-----	Component of Switch/Brush Card/Terminal Block Assembly.
12	Red	-----	-----	Component of Switch/Brush Card/Terminal Block Assembly.
13	Blue	-----	-----	Component of Switch/Brush Card/Terminal Block Assy. (LED)
14	Yellow	-----	-----	Component of Switch/Brush Card/Terminal Block Assy. (LED)

AS AN AID TO REASSEMBLY, TAKE NOTICE OF WIRE ROUTING AND POSITION IN WIRE GUIDES AND TRAPS WHILE DISMANTLING TOOL.

BE CAREFUL AND AVOID PINCHING WIRES BETWEEN HANDLE HALVES WHEN ASSEMBLING.