



845S

Date Code 0001L2001







General

For best performance hammers should be serviced at regular intervals, any indication that the hammer is not performing as specified should be investigated to prevent any adverse damage occuring.

ALL SEALS, GASKETS, GREASE OR OTHER PARTS DEEMED NECESSARY FOR SERVICING ARE IN THE SERVICE KIT.

ALL NEEDLE ROLLER BEARINGS SHOULD BE PRESSED WITH THE ROUNDED EDGE ENTERING THE BORE FIRST, AND THE PRESS TOOL PRESSING AGAINST THE FLAT SURFACE OF THE BEARING.

Cleaning

All mechanical parts with the exception of any sealed bearings should be cleaned in a suitable cleaning fluid. Electrical parts should be cleaned by the use of compressed air. PRECAUTIONS MUST BE TAKEN FOR PERSONAL SAFETY THE USE OF EYE PROTECTION AND GLOVES IS RECOMMENDED.

Inspection

All mechanical and electric parts should be inspected for wear and replaced as required.

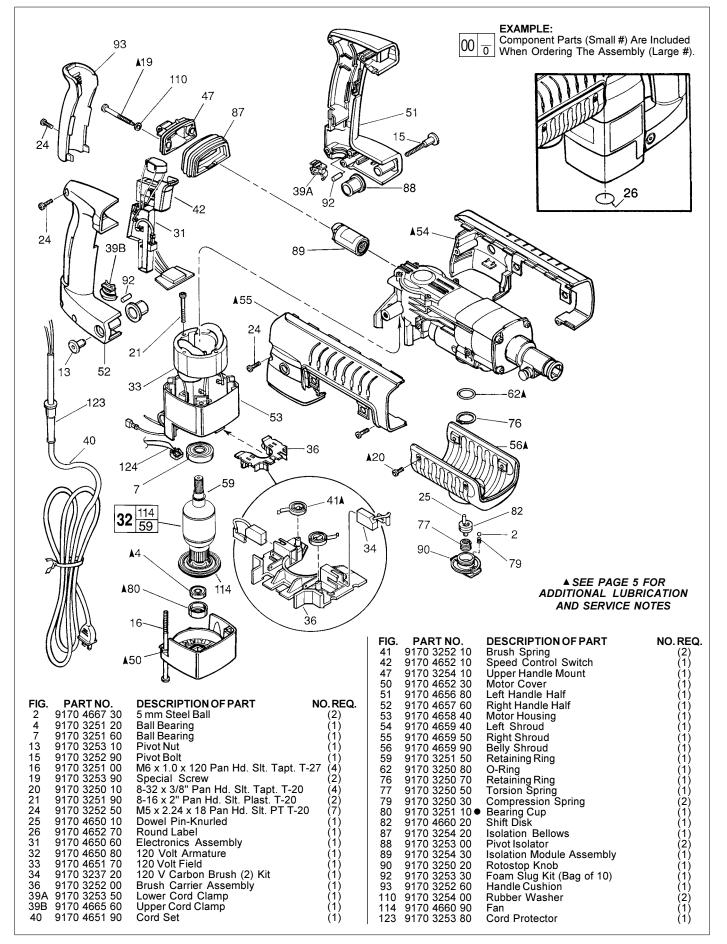
WARRANTY AND LIABILITY STATEMENT

Use only Authorized parts. Any damage or malfunction caused by the use of unauthorized parts is not covered by Warranty or Product Liability.

SERVICE TOOLS

All repairs may be completed with standard workshop tools and equipment.

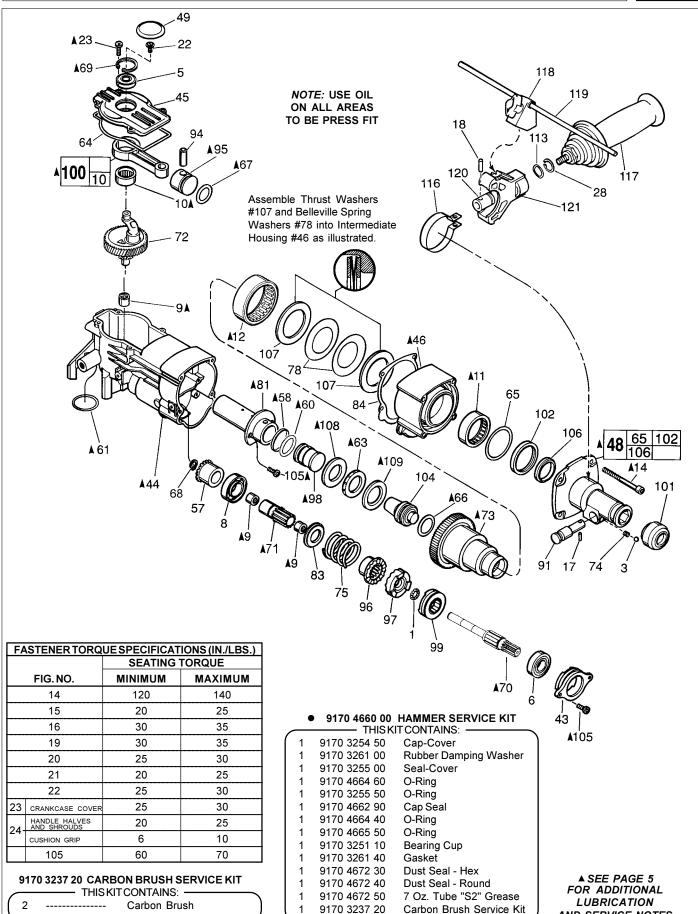




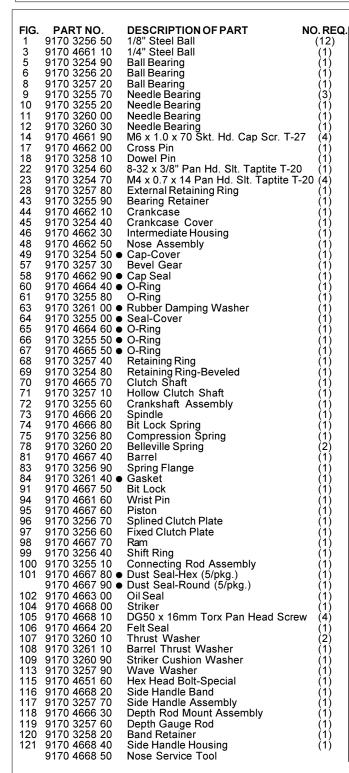
AND SERVICE NOTES



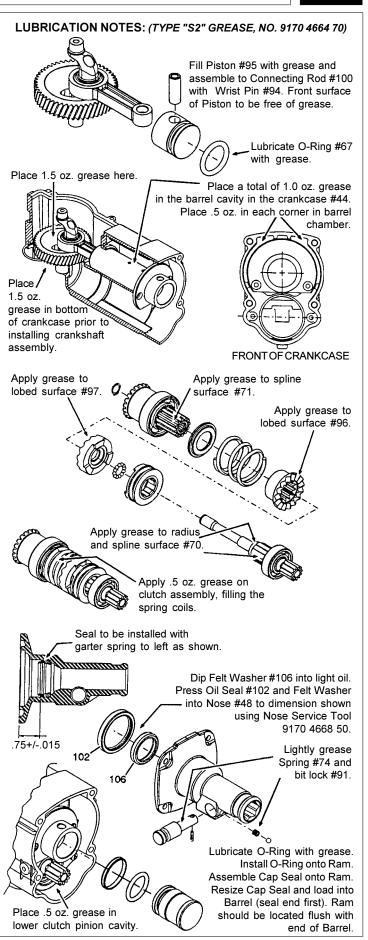
Service and Repair Manual Model 845S





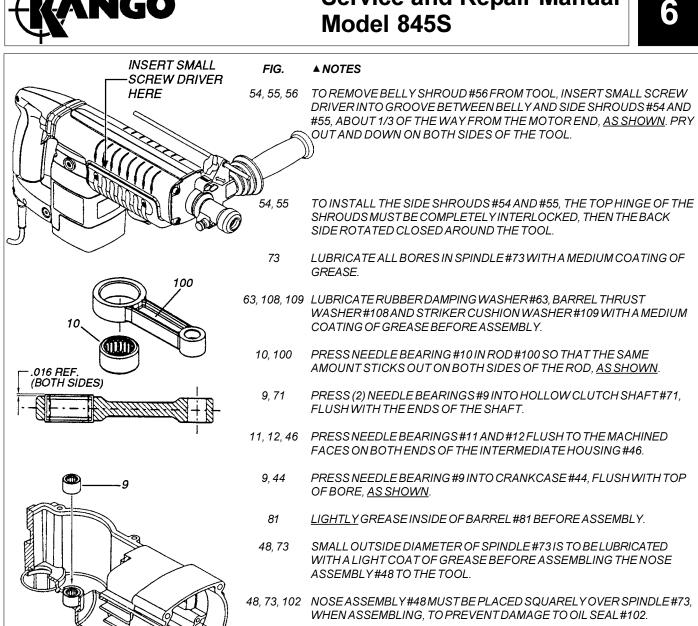


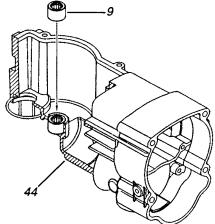
SERVICE CARRYING CASE No. 9170 4667 20





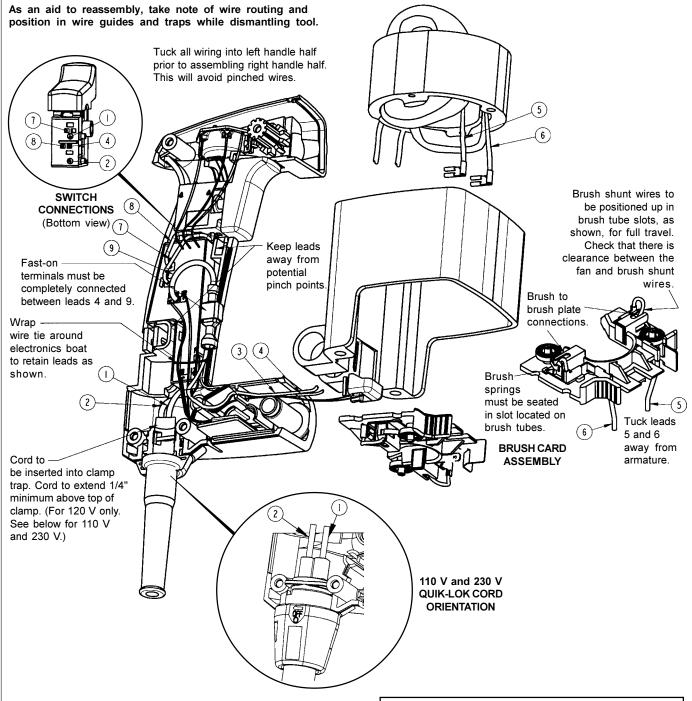
Service and Repair Manual



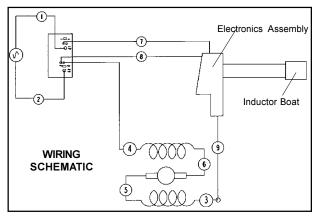


- 14, 19, 20, 23 FASTENERS#14, #19, #20 AND #23 ARE TO BE RE-ASSEMBLED USING BLUELOCTITE.
 - LUBRICATE BORE IN NOSE ASSEMBLY #48 BEFORE PRESSING OIL 48, 102 SEAL #102 INTO PLACE.
- LUBRICATE O-RINGS #60. #61. #62. #66 AND #67 WITH GREASE. 60. 61. 62. 66.67
 - INSTALL BEVEL SNAPRING #69 WITH BEVEL SIDE UP.
- PLACE BEARING CUP#80 ON SMALL ARMATURE BEARING #4 BEFORE 4, 50, 80 INSTALLING MOTOR COVER #50.
 - BRUSH SPRINGS #41 ARE TO BE WOUND 1/2 TURN TO ENGAGE 41 BRUSHES.
 - RUBBER SEAL SIDE OF BALL BEARING #4 TO FACE FAN.
 - 95.98 FACES OF PISTON #95 AND RAM #98 ARE TO BE FREE OF GREASE.
 - 105 WHEN REASSEMBLING BARREL AND CLUTCH SCREWS INTO EXISTING CRANKCASE, MAKE SURE SCREW IS STARTED IN EXISTING THREAD. DO NOT CREATE TWO SETS OF THREADS IN ONE HOLE.





WIRING SPECIFICATIONS						
Wire	Wire Color		Origin or			
No.	110 V	120 V	230 V	Part No.	Connection	
1	Blue	White	Blue	Cord	Switch	
2	Brown	Black	Brown	Cord	Switch	
3	Red	Red	Red	Field	Lead 9	
4	Red	Red	Red	Field	Switch	
5	Yellow	Yellow	Yellow	Field	Brush Holder	
6	Black	Black	Black	Field	Brush Holder	
7	White	White	White	Motor Control Assy.	Switch	
8	Black	Black	Black	Motor Control Assy.	Switch	
9	Black	Blue	Red	Motor Control Assy.	Lead 3	





ELECTRICAL TESTING

Electrical test

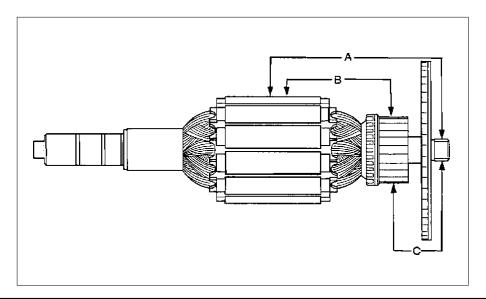
Before assemby all electrical parts MUST be checked for safety, and that they conform to specification.

Testing the Armature (Flash Testing)

A Armature shaft to lamination pack 1500 Volts (min)

B Lamination pack to commutator 1200 Volts (min)

C Armatuure shaft to commutator 3000 Volts (min)



ELECTRICAL PERFORMANCE TEST READINGS

	AF	RMATURES	
MODEL	110V	120V	220V-240V
845S	.440/.506 Ohms	.440/.506 Ohms	1.283/1.477 Ohms
	FII	ELD COILS	
845S	110V	120V	220V-240V
	.349/.401 Ohms	.349/.401 Ohms	1.339/1.54 Ohms
	PEF	RFORMANCE	
	Run	ning No Load	
845S	110V	120V	220V-240V
	4.5/6.5 Amps	4.5/6.5 Amps	2.9/4.4 Amps

CLUTCH SLIP

Measured on disassembly/assembly 35/45ft lbs 47/61Nm. (Non Electrical Test)

Note: On all test readings + or -5% of figures shown is acceptable.



WARNING

LETHAL VOLTAGES PRESENT!!

IMPORTANT

On completion of the assembly, the unit must be flash tested at 4000 volts.

Flash Test

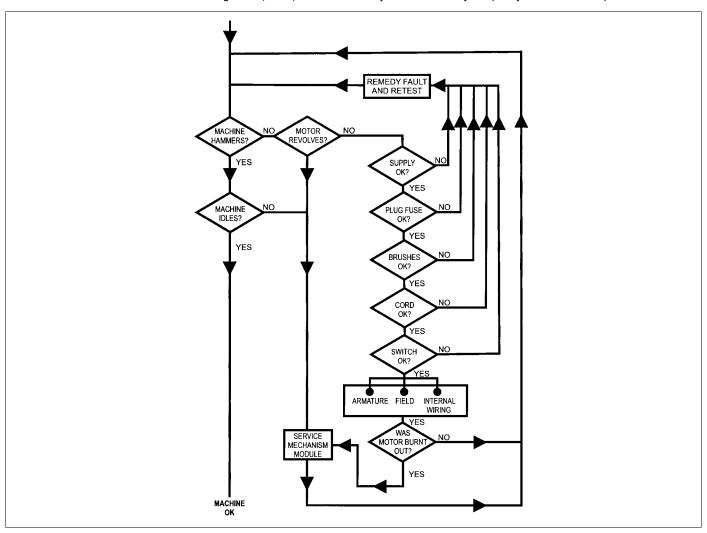
- 1. With the breaker completely assembled and with the switch "ON", apply 2000 volts initially and increase rapidly to 4000 volts between the main casting and one of the pins of the plug on the power supply cord. Apply test to both live and neutral pins.
- 2. The full voltage of 4000 volts should be maintained without breakdown or flashover for a few seconds.
- 3. If the armature has been tested, remove the carbon brushes before carrying out the test, (thus avoiding overstressing the armature insulation system).
- 4. The test voltage must be applied between the main casting and each live pin of the plug in succession.

Running Test

1. Ensure the unit is switched "ON" before testing. Operate the unit for approx. 10 minutes at half voltage for initial 'bedding in' of the carbon brushes followed by full operational voltage. Compare readings with Performance Data.

FAULT FINDING

With the aid of the Fault Finding chart (below) the source of any malfunction may be quickly identified and repaired.







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