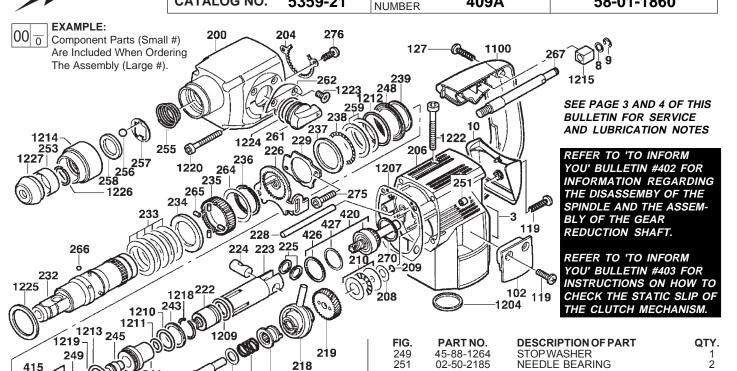
SERVICE PARTS LIST

Milwaukee.

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS REVISED BULLETIN DATE July 2003 1-1/8" ROTARY HAMMER WIRING INSTRUCTION **SERIAL** CATALOG NO. 5359-21 409A 58-01-1860



253

255 256

257

258

31-86-0102

40-50-8045

02-02-0275

42-36-1755

44-90-4285

SPACER

SPRING

SUPPORT PLATE

HOLDING RING

BALL

	212 211 216 218 219 271/272/273				45-88-1270 44-10-0077 44-66-0101	WASHER SHIFT LEVER PLATE
FIG. 3 8 9 10 102 119 127 2004 206 208 209 210 211 212 214 215 216 2218 229 232 224 225 226 228 229 232 234 235 236 237 238 239 241 243 245 248	PART NO. 12-20-5359 45-88-1245 44-90-0340 31-15-0255 05-78-0745 05-78-0715 31-40-0042 44-86-0625 31-15-0307 45-88-8825 34-40-4440 02-80-6025 14-73-0247 36-66-3162 45-88-1250 40-50-8897 45-22-0302 36-92-0747 32-60-2622 32-60-2157 32-60-2157 32-60-2165 44-82-0192 44-62-0157 44-60-1405 45-88-1180 44-90-4500 44-60-1485 44-66-6055 38-50-0038 40-50-7977 45-88-7767 22-75-1207 44-90-4510 45-88-1255 02-80-0150 45-88-0775 44-82-0089 42-76-0727 44-90-4510 45-88-0775 44-82-0089 42-76-0727 44-90-4510 45-88-0775 44-82-0089 42-76-0727 45-56-2537 45-56-2537	DESCRIPTION OF PART SERVICE NAMEPLATE KIT WASHER SNAP RING (EXT.) CRANKCASE COVER BRUSH COVER TAPTITE SCREW SCREW GEARCASE SPLINED RETAINER CRANKCASE WASHER (ADD AS REQUIRED) O-RING THRUST BEARING SET WOBBLE SHAFT ASSEMBLY REDUCTION GEAR SHAFT WASHER SPRING COUPLING SLEEVE WOBBLE PLATE REDUCTION GEAR OFFSET GEAR INTERNAL GEAR RAM PISTON WRIST PIN WASHER SHIFT RING PIN RETAINING PLATE SDS SPINDLE BELLEVILLE SPRING STOP WASHER SPINDLE GEAR RETAINING RING STOP WASHER SPINDLE GEAR RETAINING RING (EXT.) WASHER THRUST BEARING RETAINING RING RAM CATCHER THRUST COLLAR STRIKER WASHER	QTY. 1 1 1 2 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	262 264 265 266 267 268 269 270 271 272 273 275 276 415 420 426 427 600 701 1100 1204 1207 1210 1211 1212 1213 1214 1215 1218 1219 1220 1222 1223 1224 1225 1226 1227	45-88-1181 44-96-0101 02-02-0110 05-77-0030 45-88-1182 45-88-1183 44-90-0115 45-88-1185 45-88-1186 05-74-0707 45-60-0511 36-66-4267 45-88-1280 43-46-0172 49-15-5300 31-44-5359 34-40-4452 34-40-4452 34-40-4451 34-40-4451 34-40-4451 34-40-4456 42-76-0275 43-87-0080 44-90-4415 33-40-0130 05-74-0695 05-74-0695 05-74-0695 05-74-0695	WASHER ROLLER BALL BOLT WASHER WASHER RING WASHER WASHER WASHER WASHER SCREW SCREW SCREW BEARING ASSY INTERMEDIATE GEAR SET

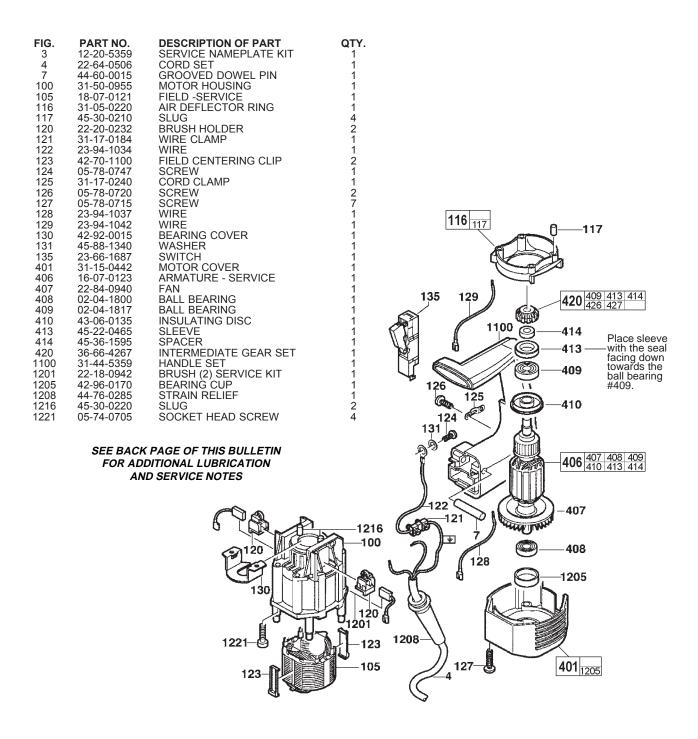
218

216

215

211 212 214 215

2 1

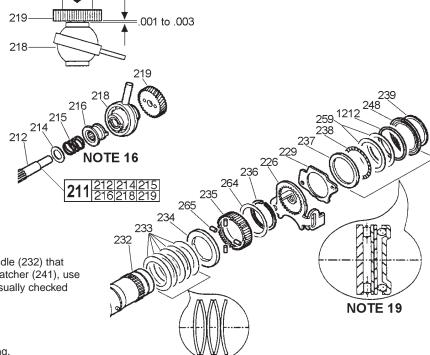


Qty.	Cat. No.	Description	Qty.	Cat. No.	Description
4	05-74-0685	Socket Head Screw	1	42-52-0065	Dust Cap
2	05-74-0695	Socket Head Screw	1	42-76-0275	Collar
2	05-74-0697	Screw	2	42-96-0170	Bearing Cup
4	05-74-0705	Socket Head Screw	1	43-44-0375	Gasket
1	22-18-0942	Brush Service Kit (2)	1	43-87-0080	Isolation Block
1	34-40-0130	O-Ring	1	44-76-0285	Strain Relief
1	34-40-0132	O-Ring	1	44-90-0375	Snap Ring
1	34-40-4451	O-Ring	1	44-90-4415	Retaining Ring
1	34-40-4452	O-Ring	1	45-06-0215	Felt Washer
1	34-40-4454	O-Ring	2	45-30-0220	Slug
1	34-40-4456	O-Ring	2	45-88-1180	Washers
1	34-40-4459	O-Ring	1	49-08-4250	Type "P" Grease (1.5 oz.)
		-	1	49-08-4255	Type "Q" Grease (1.5 oz.)

SERVICE NOTES:

5359-21

- 1. To remove the gearcase (200), remove the retaining ring (1226), shift lever (261), plate (262) and screws (1223).
- 2. To remove the spindle (232), the two mounting bolts (275) must be removed with a metric allen wrench.
- To remove the ram (222), tap the end of the striker (245) with a hammer, this frees the ram from the ram catcher. Ram may be found in piston rather than in ram catcher.
- 4. To remove the ram catcher (241), striker (245) and stop washer (249) from the spindle (232), remove the internal retaining ring (1218) with a small screwdriver by pushing on the ring through the two small ports in the spindle where the ring is visible. Push the ring in and towards the open end of the spindle, <u>use service tool 61-10-0185 if necessary</u>. Press out all internal parts.
- 5. To remove the rear thrust bearing (238), remove the spiral lock retaining ring (239) with a screwdriver and then remove the thrust bearing.
- To remove the spindle gear/clutch (235), press the spindle gear against the disk springs (233) and remove the retaining ring (236) that fits into the gear counter bore.
- 7. To remove the wobble shaft assembly (211), turn the shaft so the wobble finger of the wobble plate (218) leans toward the motor housing (100). Pull out on the shaft, tilt and wiggle it to get it to clear the crankcase (206).
- 8. To disassemble the wobble shaft assembly (211), press the reduction gear (219) off, remove all remaining parts.
- 9. To remove the bearing housing (415), try turning it by twisting on the lugs by hand. If it can be moved, continue to twist and pull to remove. If it will not move, it must be removed with an internal bearing puller.
- 10. When removing the intermediate shaft assembly (420), note the number of shim washers (427) that are between the snap ring (426) and the bearing of the assembly. Be sure to return them all when reassembling the tool.
- 11. To remove the handle (1100), push out dowel pin (7), open handle, remove snap ring (9) and washer (8) from the isolation block (1215), disconnect field leads under motor cover (401) and remove handle.
- 12. To remove motor, remove two screws (1222) from the top of the crankcase (206) and 4 screws (127) from deep pockets in motor cover (401). Slide motor and motor housing out of crankcase.
- 13. To remove armature (406) from motor assembly, pull brushes (1201) off of commutator, push back brush holders (120) to provide clearance for insulating disc (410), slide bearing cover (130) from under insulating disc (410) and slide armature out.
- 14. When reassembling bearing housing (415) to crankcase (206) do not press it completely into place before the piston (223) and wobble shaft (211) are in place.
- 15. Shim washers (427) as required, maximum of 2.
- 16. When reassembling the wobble shaft assembly (211), a clearance of .001 to .003 inch must be maintained between the reduction gear (219) and the inner race of the wobble plate (218). The ground side of the gear must face the wobble plate.
- 17. Before assembling wobble shaft assembly (211) to crankcase (206), assemble the loose rollers that support the drive gear end of the wobble shaft in their shell in the crankcase. Hold the rollers in place with grease. (Tool may not have loose rollers)
- 18. When reassembling the clutch be sure to stack the disk springs (233), as shown.
- 19. Thrust bearing (238) on the spindle (232) must be assembled as shown.
- 20. To push the internal retaining ring (1218) into the spindle (232) that retains the striker (245), stop washer (249) and ram catcher (241), use an old, used piston. The position of the ring can be visually checked by looking in the removal ports.
- 21. Seal of sleeve (413) to face bearing (409).
- 22. Check slugs (117 and 1216), replace if worn or missing.
- 23. Bearing Cup (1205) to be placed in motor cover (401) before assembly.



NOTE 18

GREASING INSTRUCTIONS: 5359-21

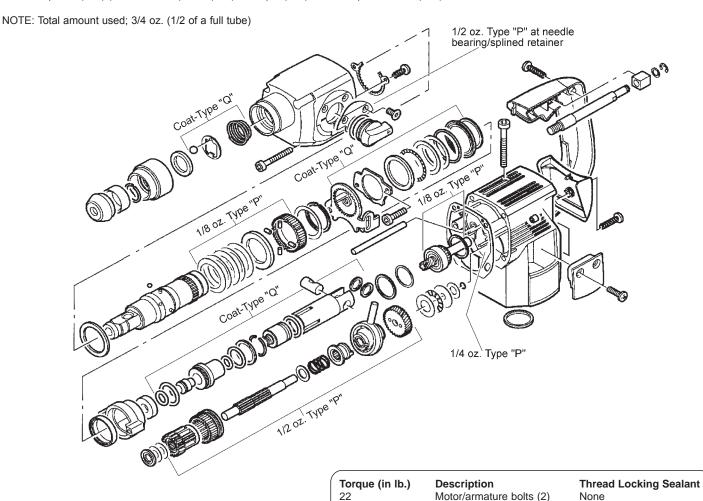
Type "P" Grease (Cat. No. 49-08-4250)

- 1. Place 1/2 oz. at needle bearing / splined retainer area of gearcase (200).
- 2. Grease assembled wobble shaft (211) with 1/2 oz. of grease.
- 3. Place 1/8 oz. in armature pinion / intermediate shaft assembly (420) cavity.
- 4. Place 1/4 oz. of grease in wobble shaft drive gear cavity of crankcase (206).
- 5. Grease clutch (235) and clutch springs (233) on spindle (232) with 1/8 oz. of grease.

NOTE: Total amount used; 1 1/2 oz. (one complete tube)

Type "Q" Grease (Cat. No. 49-08-4255)

- 1. Coat the spindle (232) inside and out.
- 2. Coat all parts assembled on or in spindle except for clutch.
- 3. Coat piston (223) (inside and out), ram (222), wrist pin (224) and wrist pin washers (225). DO NOT coat the flat face of the ram.



22

9

85

10

16 50

22-26

Motor housing bolts (4)

Cord Clamp screws (2)

Anti-vibration post (1)

Motor cover screws (4)

Gearcase screws (4)

Spindle retaining bolts (2)

Handle screws (3)

None

None

None

None

None

Blue

None