

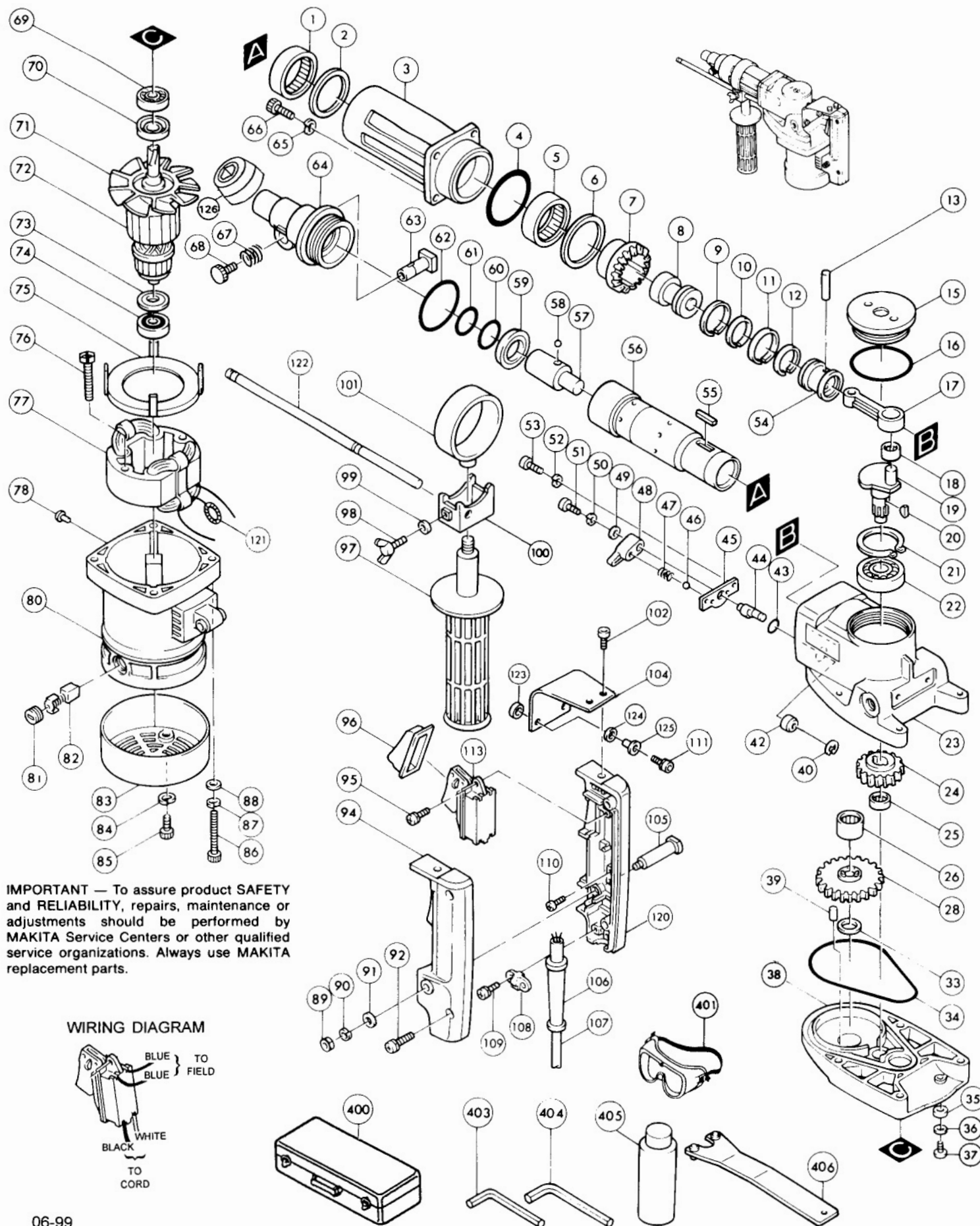


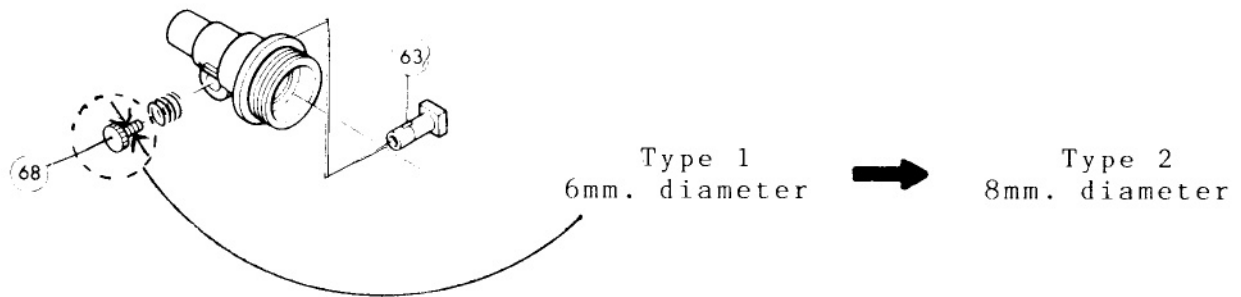
Fig.	Part No.	Qty. Used	Description	Fig.	Part No.	Qty. Used	Description
1	212551-3	1	NEEDLE BEARING 4516	70	213160-1	1	OIL SEAL 14
2	***	1	FLAT WASHER	71	241634-2	1	FAN 94
3	311674-5	1	BARREL	72	614771-9	1	ARMATURE ASS'Y (Assembled Item's 71-74)
4	213655-4	1	O RING 56	73	681635-2	1	INSULATION WASHER
5	212551-3	1	NEEDLE BEARING 4516	74	211066-7	1	BALL BEARING 6200LLB
6	253832-6	1	FLAT WASHER 45	75	410163-8	1	BAFFLE PLATE
7	221347-1	1	SPIRAL BEVEL GEAR 36	76	265347-1	2	HEX BOLT M5x45
8	321369-2	1	STRIKER	77	624631-7	1	FIELD ASS'Y (Inc. Fig. 121)
9	412038-7	1	PISTON RING 34	78	953106-2	4	RVET
10	412041-8	1	INNER RING 30	80	157159-5	1	MOTOR HOUSING (With 2 ea. Brush Holder 643653-8 & Screw 913206-0)
11	412038-7	1	PISTON RING 34	81	643650-4	2	BRUSH CAP
12	341743-8	1	INNER RING 30	82	181048-2	2	CARBON BRUSH (BC-155)
13	256029-6	1	PIN 8	83	284055-5	1	REAR COVER
15	411709-3	1	CRANK CAP	84	942101-7	2	SPRING WASHER 5
16	213654-6	1	O RING 60	85	922222-1	2	H.S.H. BOLT M5x16
17	312956-8	1	ROD	86	*****	4	H.S.H. BOLT M6x55
18	212108-0	1	NEEDLE BEARING 1212	87	*****	4	SPRING WASHER 6
19	321726-4	1	CRANK SHAFT	88	941151-9	4	FLAT WASHER 6
20	254001-2	2	WOODRUFF KEY 4	89	931302-2	1	HEX NUT M6
21	962203-3	1	RETAINING RING R-47	90	942151-2	1	SPRING WASHER 6
22	211324-1	1	BALL BEARING 6204LLU	91	941151-9	1	FLAT WASHER 6
23	157361-0	1	CRANK HOUSING	92	911243-8	2	P.H. SCREWM5x25
24	221689-3	1	HELICAL GEAR 33	94	*****	1	HANDLE (L)
25	212102-2	1	NEEDLE BEARING 1210	95	911124-6	1	P.H. SCREWM4x14
26	212359-5	1	NEEDLE BEARING 2216	96	421265-5	1	DUST COVER
28	134268-7	1	TORQUE LIMITER ASS'Y	97	273472-4	1	SIDE GRIP
33	253314-8	1	THIN WASHER 15	98	924321-5	1	WING BOLT M6x18
34	213853-0	1	O RING 100	99	261049-7	2	RUBBER WASHER
35	654031-7	1	CUP WASHER 4	100	164543-7	1	GRIP BASE
36	654032-5	1	FLAT WASHER 4	101	164572-0	1	GRIP HOLDER
37	652014-1	1	P.H. SCREWM4X8	102	****	2	H.S.H. BOLT M6x18
38	157369-4	1	GEAR HOUSING	103	****	2	SPRING WASHER
39	263005-3	1	RUBBER PIN 6	104	****	2	CUSHION PLATE
40	961011-9	1	STOP RING E-4	105	321210-9	1	HANDLE SHAFT
42	212011-5	1	NEEDLE BEARING 609	106	682503-2	1	CORD GUARD
43	213055-8	1	O RING 10	107	664658-5	1	CORD WITH PLUG (3X18X16;SJ)
44	321727-2	1	CHANGE SHAFT	108	687001-1	1	STRAIN RELIEF
45	342786-3	1	PLATE	109	911131-9	2	P.H. SCREWM4X18
46	216002-8	1	STEEL BALL	110	652014-1	2	P.H. SCREWM4X8
47	231317-2	1	COMPRESSION SPRING 3	111	****	2	H.S.H. BOLT M6X25
48	410331-3	1	CHANGE LEVER	112	****	2	SPRING WASHER
49	941052-1	1	FLAT WASHER 4	113	651145-3	1	SWITCH
50	942051-6	1	SPRING WASHER 4	120	*****	1	HANDLE (R)
51	922127-5	1	H.S.H. BOLT M5x12	121	654020-2	2	GARTER SPRING
52	942101-7	2	SPRING WASHER 5	122	321248-4	1	DEPTH GUIDE
53	922212-4	2	H.S.H. BOT M5x12	123	****	2	RUBBER RING 9
54	321370-7	1	PISTON	124	****	2	RUBBER RING 9
55	***	1	KEY	125	****	2	SLEEVE 6
56	***	1	CYLINDER LINER	126	*****	1	CAP
57	**	1	IMPACT BOLT	<u>ACCESSORIES</u>			
58	216004-4	2	STEEL BALL 7.9	400	150589-9	1	PLASTIC TOOL CASE
59	**	1	RING 28	401	191686-2	1	SAFETY GOGGLES
60	213411-2	1	O RING 27	403	783202-0	1	HEX WRENCH 4
61	213411-2	1	O RING 27	404	783203-8	1	HEX WRENCH 5
62	213604-1	1	O RING 50	405	181490-7	1	HAMMER GREASE
63	*	1	TOOL RETAINER	406	782407-9	1	LOCK NUT WRENCH
64	**	1	TOOL HOLDER				
65	*****	1	SPRING WASHER 6				
66	*****	4	H.S.H. BOLT M6x25				
67	231375-8	1	COMPRESSION SPRING 15				
68	*	1	BOLT M8X12				
69	211109-5	1	BALL BEARING 6201				

2 MODEL HR3851

* SEE SERVICE CHANGE 1
 ** SEE SERVICE CHANGE 2
 *** SEE SERVICE CHANGE 3
 **** SEE SERVICE CHANGE 4
 ***** SEE SERVICE CHANGE 5
 ***** SEE SERVICE CHANGE 6
 ***** SEE SERVICE CHANGE 7

SERVICE CHANGE

1.Changes on Tool Retainer and Bolt.



Item No.	Description	Type 1	Type 2
63	Tool Retainer	Part # 331264-8 (Discontinued)	Part # 331301-8
68	Bolt	Part # 265854-4 (Size: M6x12)	Part # 265890-0 (Size: M8x12)

The above parts are completely interchangeable as a set.

REPAIR NOTE

Tightening Torque of type 1 Bolt is 8.7~11.6 ft./lb.;
type 2 Bolt is 15.9~18.8 ft/lb.

2.Change on Y Ring and Impact Bolt.

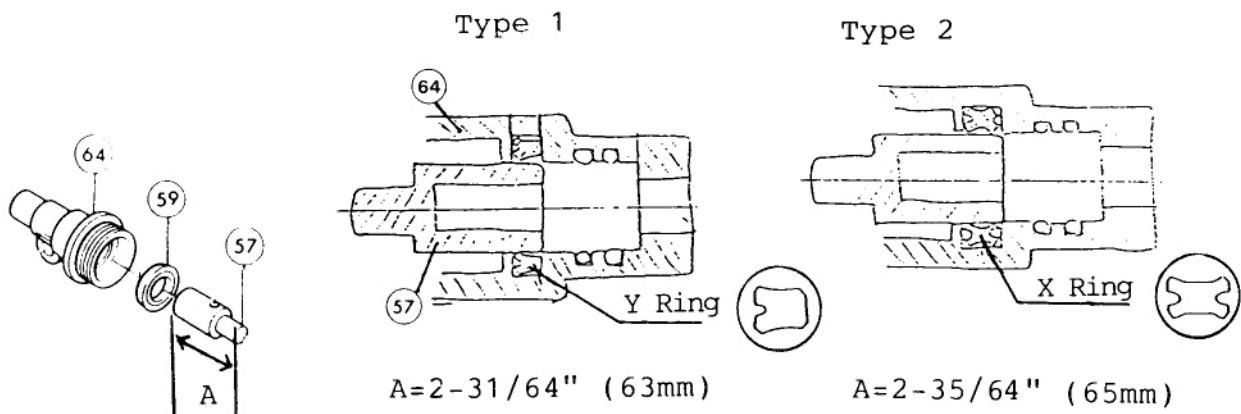


FIG.	DESCRIPTION	TYPE 1	TYPE 2
57	Impact Bolt	Part# 321737-9 (Discontinued)	Part# 322218-6 (Discontinued) See Service Change 7
59	-----	Part# 213410-4 Y Ring 28	Part# 213428-5 X Ring 28 (Discontinued)
64	Tool Holder	Part# 321711-7 (Discontinued)	Part# 322221-7 See Service Change 7

The above parts are interchangeable as a set.

3. Change on Cylinder Liner and Washer.

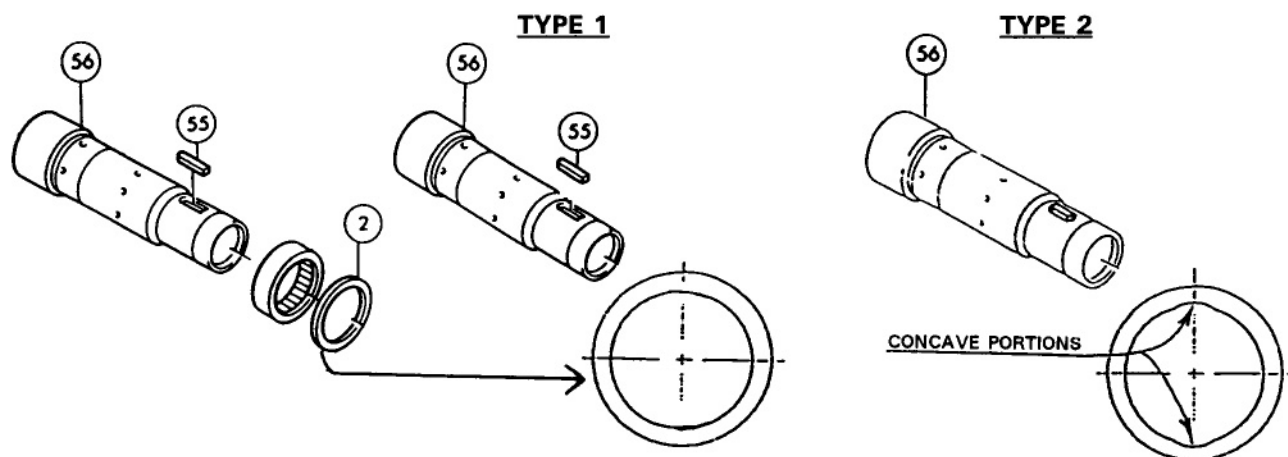


FIG.	DESCRIPTION	TYPE 1	TYPE 2
2	Flat Washer	Part #253831-8 (Discontinued)	Part #267057-6
55	Key 4	Part #254205-6	-----
56	Cylinder Liner	Part #321372-3 (Discontinued)	Part #152335-6 (Incl. 2 each Key 4)

SERVICE NOTE

Type 2 Cylinder Liner will fit the Type 1 Washer by removing 1 each of the Key 4 out of the Cylinder Liner. The Key 4 can be easily removed with pliers.

4. Change on Cushion Plate. Rubber Rings have been added.

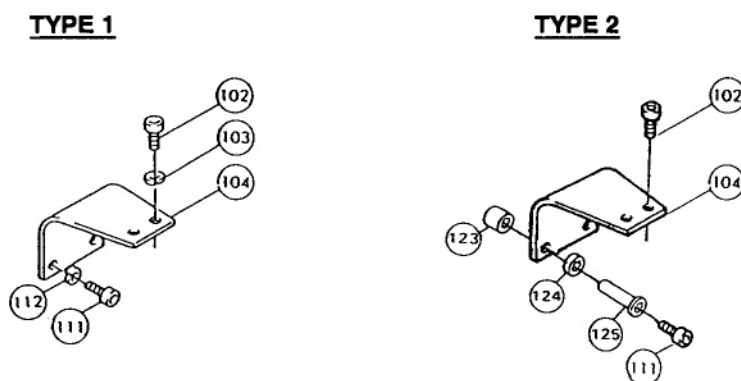
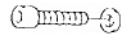


FIG.	DESCRIPTION	TYPE 1	TYPE 2
102	H.S.H. Bolt, W/Spring Washer	Part #922317-0 M6x14	Part #922316-2 M6x14
103/112	Spring Washer 6	Part #942151-2	-----
104	Cushion Plate	Part #342613-4 (Discontinued)	Part #343754-9
111	H.S.H. Bolt, W/Spring Washer	Part #922317-0 M6x14	Part #922341-3 M6x25
123	Rubber Ring 9	-----	Part #262051-3
124	Rubber Ring 9	-----	Part #262052-1
125	Sleeve 6	-----	Part #257636-8

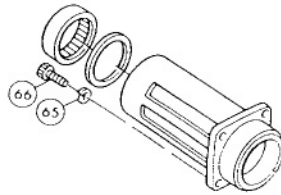
The above items are interchangeable as a set.

5) Change on Hex Socket Head Bolts.

TYPE 1



HEX SOCKET HEAD BOLT



TYPE 2



HEX SOCKET HEAD BOLT
with WASHER

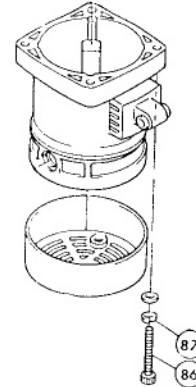
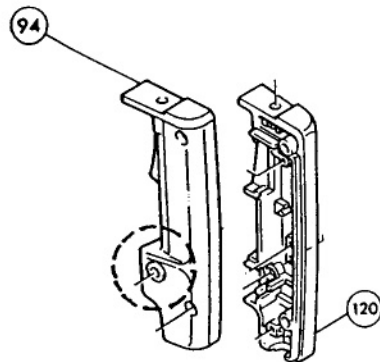
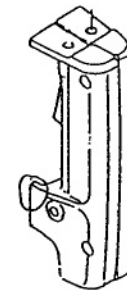


FIG. NO.	DESCRIPTION	TYPE 1 PART NUMBER	TYPE 2 PART NUMBER
65	Spring Washer 6	942151-2	922341-3
66	Hex. Socket Head Bolt M6X25	922342-1	with Washer
86	Hex Socket Head Bolt M6X55	922377-2	922376-4
87	Spring Washer 6	942151-2	with Washer

6) Change on Handle.



Type 1
(Flush)



Type 2
(Has a Lip)

FIG.	DESCRIPTION	TYPE 1	TYPE 2
94	Handle (L)	Part #410228-6 (Discontinued)	Part #182564-7 Handle Set
120	Handle (R)	Part #410410-7 (Discontinued)	

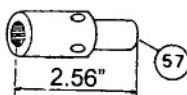
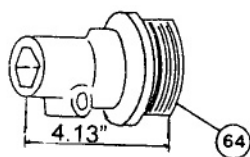
The above parts are interchangeable as a set.

7)

SERVICE CHANGE

The Tool Holder and Impact Bolt have been changed and a Cap has been added.

Type 2



Type 3

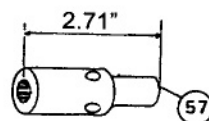
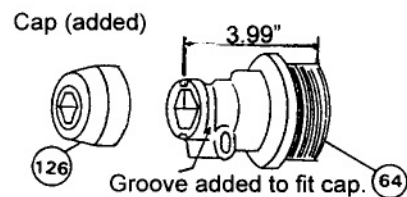


Fig.	Description	Type 2	Type 3
57	Impact Bolt	Part #322218-6 (Discontinued)	Part #323718-9
64	Tool Holder	Part #322221-7 (Discontinued)	Part #323717-1
126	Cap	-----	Part #421596-2

The above parts are completely interchangeable as a set.