

PARTS

G10SR

ITEM No.	CODE No.	DESCRIPTION	No. USED	REMARKS
1	937-807	TAPPING SCREW D5X25	4	
2	302-149	GUARD PLATE	1	
3	301-944	PUSHING BUTTON	1	
4	314-125	GEAR COVER ASS'Y	1	INCLUD.3,16
5	301-941	SPECIAL NUT M7	1	
6	301-939	PINION	1	
7	314-430	SLOTTED HD. SCREW (SEAL LOCK) M4X10	2	
8	608-VVM	BALL BEARING 608VVC2PS2L	1	
9	301-935	INNER COVER	1	
10	360-163U	ARMATURE ASS'Y 110V-115V	1	INCLUD.8,14,15
* 10	360-163E	ARMATURE 220V-230V	1	
11	982-021	HEX. HD. TAPPING SCREW D4X70	2	
* 12	340-187H	STATOR ASS'Y 220V-230V	1	INCLUD.13 FOR GBR(230V),NZL,CHN
13	931-867	BRUSH TERMINAL	2	
14	980-865	WASHER (A)	1	
15	626-VVM	BALL BEARING 626VVC2PS2L	1	
16	301-943	LOCK PIN	1	
17	301-940	GEAR	1	
18	987-201	SEAL LOCK SCREW (W/SP. WASHER) M4X10	3	
19	938-058	BEARING COVER (B)	1	
20	600-1VV	BALL BEARING 6001VVCMP2L	1	
21	301-946	FELT PACKING	1	
22	301-947	PACKING GLAND	1	
23	987-203	SEAL LOCK SCREW (W/SP. WASHER) M4X12	4	
24	940-220	WOODRUFF KEY 2.5X8	1	
* 25A	302-046	SPINDLE M10XP1.5	1	
26	308-386	MACHINE SCREW (W/SP. WASHER) M5X16(BLACK)	2	
27	301-949	SET PLATE	1	
28	301-948	WHEEL GUARD ASS'Y	1	INCLUD.26,27
* 29	937-835Z	WHEEL WASHER (C)	1	
* 30	316-820	D. C. WHEELS 100MMX4T A36Q (25 PCS.)	1	FOR AUS,NZL
* 31	936-583Z	WHEEL NUT M10XP1.5	1	
32	301-938	GEAR AND PINION ASS'Y	1	INCLUD.6,17
33	938-299	SPRING	1	
34	982-033	SLIDE BAR	1	
35	949-322	FLAT HD. SCREW M4X10 (10 PCS.)	1	
36	994-298	SLIDE KNOB (C)	1	
37	315-493	HOUSING ASS'Y	1	INCLUD.43
38		NAMER PLATE	1	

*ALTERNATIVE PARTS

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ITEM No.	CODE No.	DESCRIPTION	No. USED	REMARKS
39	307-010	BEARING BUSHING	1	
40		HITACHI LABEL	1	
41	937-847	BRUSH CAP	2	
42	999-021	CARBON BRUSH (1 PAIR)	2	
43	937-846	BRUSH HOLDER	2	
44	305-720	TAPPING SCREW (W/FLANGE) D4X12	1	
45	980-778	SLIDE SWITCH (2P PILLAR TYPE)	1	
46	982-044	SWITCH HOLDER	1	
47	984-750	TAPPING SCREW (W/FLANGE) D4X16	4	
* 48	994-273	NOISE SUPPRESSOR	1	FOR NZL,AUS,GBR,CHN
* 49	959-144	TERMINAL 50051 (10 PCS.)	1	FOR NOISE SUPPRESSOR
* 50	981-373	TUBE (D)	2	FOR NOISE SUPPRESSOR
51	953-327	CORD ARMOR D8.8	1	
52	315-494	TAIL COVER	1	
53	307-811	TAPPING SCREW (W/FLANGE) D4X16 (BLACK)	1	
* 54	500-436Z	CORD	1	FOR GBR(230V)
* 55	960-266	CORD CLIP	1	
* 56	981-373	TUBE (D)	2	FOR CORD

STANDARD ACCESSORIES

ITEM No.	CODE No.	DESCRIPTION	No. USED	REMARKS
501	313-933	WRENCH	1	
* 502	302-142	SIDE HANDLE	1	
601	316-820	D. C. WHEELS 100MMX4T A36Q (25 PCS.)	1	
602	314-051	SANDING DISCS 100MM C-P16 (10 PCS.)	1	
603	314-052	SANDING DISCS 100MM C-P20 (10 PCS.)	1	
604	314-053	SANDING DISCS 100MM C-P24 (10 PCS.)	1	
605	314-054	SANDING DISCS 100MM C-P30 (10 PCS.)	1	
606	314-055	SANDING DISCS 100MM C-P36 (10 PCS.)	1	
607	314-056	SANDING DISCS 100MM C-P40 (10 PCS.)	1	
608	314-057	SANDING DISCS 100MM C-P50 (10 PCS.)	1	
609	314-058	SANDING DISCS 100MM C-P60 (10 PCS.)	1	
610	314-059	SANDING DISCS 100MM C-P80 (10 PCS.)	1	
611	314-060	SANDING DISCS 100MM C-P100 (10 PCS.)	1	
612	314-061	SANDING DISCS 100MM C-P120 (10 PCS.)	1	
613	935-513	WASHER NUT M10XP1.5	1	
615	936-548	WASHER	1	
616	936-558Z	RUBBER PAD	1	

*ALTERNATIVE PARTS

STANDARD ACCESSORIES

G10SR

ITEM No.	CODE No.	DESCRIPTION	No. USED	REMARKS
617	303-058	DIAMOND WHEEL (SEGMENT) 105MM-D20 HOLE	1	FOR CONCRETE
621	304-016	DIAMOND WHEEL 105MM-D20 HOLE	1	WAVE SHAPE TYPE FOR CONCRETE
623	306-162	DIAMOND WHEEL 106MM-D20 HOLE	1	WAVE SHAPE TYPE FOR CONCRETE
624	302-098	GUIDE BASE	1	
626	986-381	DUST COLLECTOR (FOR DISC GRINDER)	1	



1. PRECAUTIONS IN DISASSEMBLY AND REASSEMBLY

The **[Bold]** numbers in the descriptions below correspond to the numbers in the Parts Lists and exploded assembly diagrams for G 10SR and G 12SR.

1-1. Disassembly of the Armature

- (1) Loosen the M5 x 20 Machine Screw **[26]** and remove Wheel Guard (A) Ass'y **[28]**.
- (2) Remove the Brush Caps **[41]**, and take out the Carbon Brushes **[42]**.
- (3) Loosen the D5 x 25 Tapping Screws **[1]**, and remove the Gear Cover Ass'y **[4]**. Separate the Inner Cover **[9]** from the Housing Ass'y **[37]** with a slotted-head screwdriver, and remove the Inner Cover **[9]** together with the Armature **[10]**.
- (4) Holding the Armature **[10]**, loosen the M7 Special Nut **[5]** with a wrench, and remove the Pinion **[6]**.
- (5) Support the Inner Cover **[9]** with a tubular jig (inner diameter 63 - 72 mm is recommended), and push down on the armature shaft with a hand press to remove the Armature **[10]**. (see Fig. 4)

1-2. Disassembly of the Stator Ass'y

- (1) After removing the Armature **[10]**, disconnect the lead wires of the Stator Ass'y **[12]** from the Slide Switch **[45]**. Then, remove the Brush Terminals **[13]** from the Brush Holders **[43]**.
- (2) Loosen the D4 x 70 Hex. Hd. Tapping Screws **[11]**, and remove the Stator Ass'y **[12]**.

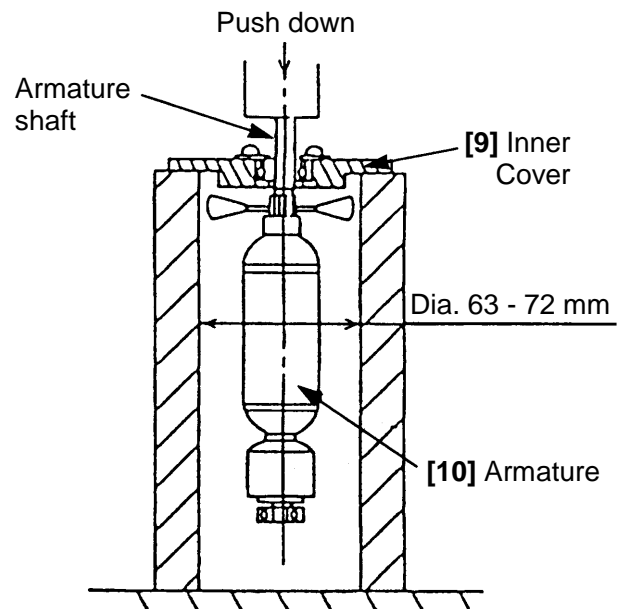


Fig. 4

1-3. Disassembly of the Gear

- (1) Loosen the M4 x 12 Seal Lock Screw **[23]**, and remove the Packing Gland **[22]** together with the Spindle **[25]**, and Gear **[17]** from the Gear Cover Ass'y **[4]** in a single body.
- (2) As illustrated in Fig. 5, support the angled surface of the Gear **[17]** with a J-129 gear puller (special repair tool, Code No. 970905), rest the J-129 gear puller on a J-130 sleeve (special repair tool, Code No. 970907), and push down on the tip of the Spindle **[25]** with a hand press to remove the Gear **[17]**.

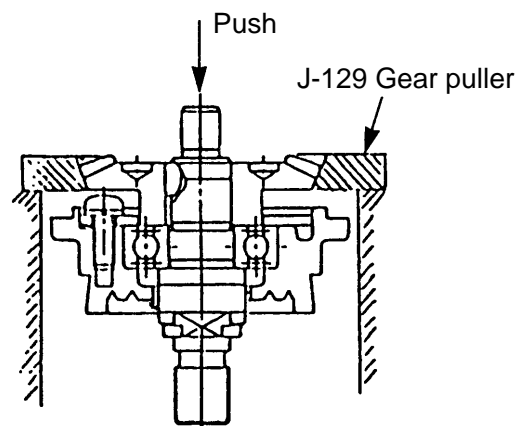


Fig. 5

1-4. Precautions on Reassembly

1) Thoroughly coat the grease (Hitachi Motor Grease N.P.C. SEP-3A, Code No. 930035, is recommended) on the gear teeth of the gear and pinion. Special attention must be given to ensure that the grease is applied properly all the way to the base of each gear teeth.

Failure to do so could result in early wear and/or damage to the gear and pinion.

2) Liberally moisten the inner circumference of the felt packing with machine oil:

Failure to properly moisten the inner circumference of the felt packing could cause early wear and/or damage of the ball bearing.

3) When replacing the gear cover assembly with a new one, apply mixed oil into the inner roller of the needle bearing (metal).

Mixed oil: A mixture of Hitachi Power Tool Grease No. 2 (unilube No. 00, Code No. 939302) and turbine oil is recommended.

Mixture ratio: 1 : 1 (Weight ratio)

Supply amount: 0.5cc

1-5. Amount of Lubricant

- Pinion chamber of Gear Cover Ass'y [4] (supply from inner cover side) 8gr. of N.P.C. SEP-3A grease (Code No. 930035)

Also, thoroughly apply grease on the gear teeth of the gear and pinion. (see Para. 1-4.)

- Needle bearing (Metal) Mixed oil 0.5cc
Mixed oil: Hitachi Power Tool Grease No. 2 (Code No. 939302) and turbine oil.
Mixture ratio: 1 : 1 (Weight ratio)

1-6. Tightening Torque of Each Screw or Nut

- M4 Slotted Hd. Screw [7] and M4 Seal Lock Screw [18] [23] 1.8 ± 0.5 N·m (18 ± 4 kgf·cm, 1.3 ± 0.3 ft-lbs.)
- D4 Tapping Screws [11] [44] [47] [53] 2.0 ± 0.5 N·m (20 ± 5 kgf·cm, 1.5 ± 0.4 ft-lbs.)
- D5 Tapping Screws [1] 2.9 ± 0.5 N·m (30 ± 5 kgf·cm, 2.2 ± 0.4 ft-lbs.)
- M7 Special Nut [5] 6.4 ± 1.0 N·m (65 ± 10 kgf·cm, 4.7 ± 0.7 ft-lbs.)
- M4 Flat Hd. Screw [35] 0.6 ^{+0.3}₀ N·m (6 ⁺³₀ kgf·cm, 0.4 ^{+0.2}₀ ft-lbs.)

1-7. Wiring Diagram

(1) For European countries, South Africa, China, Australia and New Zealand

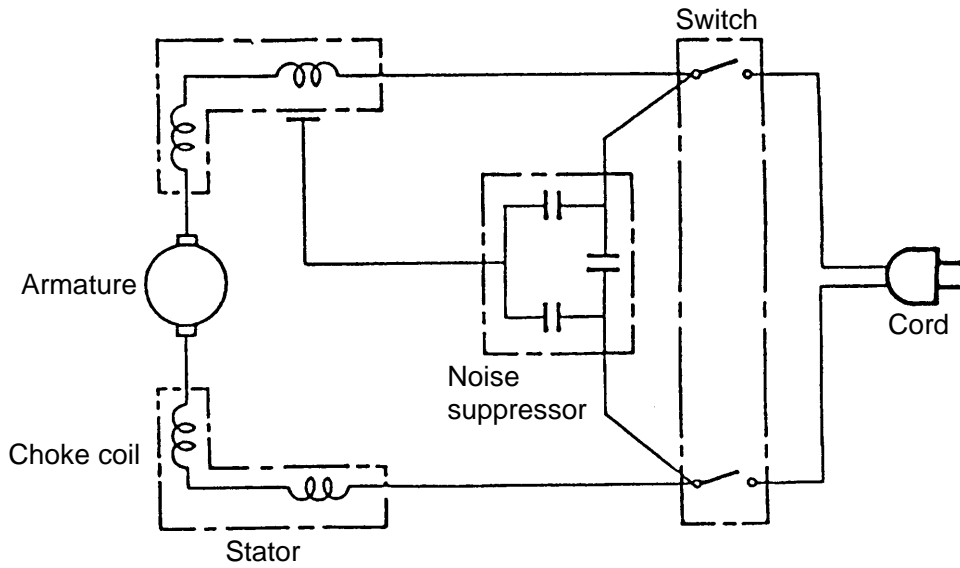


Fig. 6

(2) For other countries

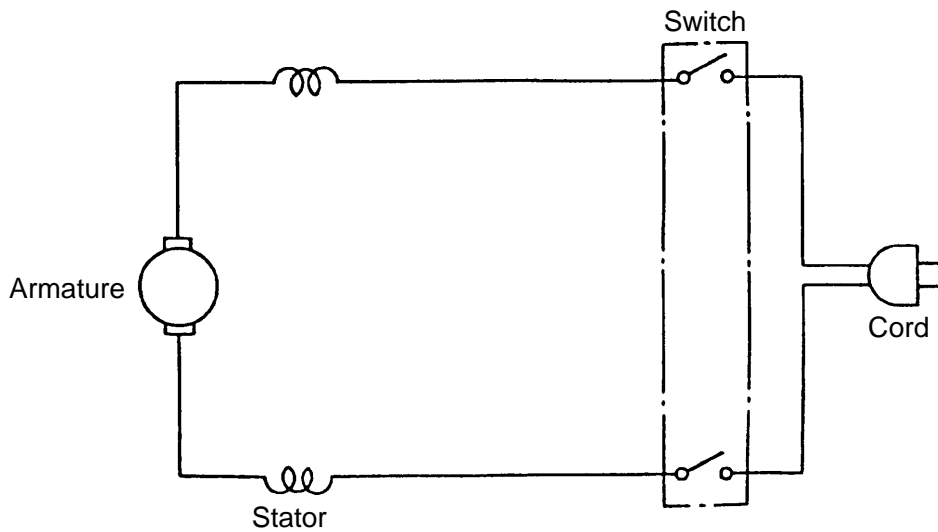


Fig. 7

1-8. Remaining Reassembly

Remaining reassembly can be accomplished by following the disassembly procedures in reverse.

1-9. Insulation Tests

On completion of disassembly and repair, measure the insulation resistance and conduct the dielectric strength test.

Insulation resistance: 7M Ω or more with DC500V Megohm Tester.

Dielectric strength: AC4000V/1 minute, with no abnormalities

220V - 240V

(and 110V for U.K. products)

AC2500V/1 minute, with no abnormalities

110V - 127V

(except U.K. products)

1-10. No-Load Current Value

After no-load operation for 30 minutes, the no-load current value should be as follows:

Voltage (V)	110	115	220	230	240
Current (A) (Max.)	2.5	2.5	1.3	1.2	1.2

