CHNICAL INFORMATION



Model No.

4340CT, 4340FCT

Description > Jig Saw

Concept and main applications

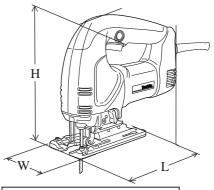
The above mentioned top handle type jig saw is the advanced version of the existing model 4304T series.

* Pre-setting speed dial for optimal speed setting

Its brief benefits and features are

- * New tool less blade change system
- * Incredibly low vibration and noise level
- * Built-in electronic control system for keeping constant speed and soft start
- In addition to the above features, Model 4340FCT

is equipped with LED job light for easy tracing your cutting line.



Dimensions: mm (")		
Length (L) 236 (9-1/4)		
Height (H) 204 (8)		
Width (W) 73 (2-7/8)		

Specification

Voltage (V) Cumont (A)		Cycle (Uz)	Continuous Rating (W)		Mov. Output(W)
Voltage (V)	Current (A)	Cycle (Hz)	Input	Output	Max. Output(W)
110	6.9	50 / 60	720	320	700
120	6.3	50 / 60	720	320	700
220	3.4	50 / 60	720	320	700
230	3.3	50 / 60	720	320	700
240	3.2	50 / 60	720	320	700

Strokes per min. : spm.= min1		800 - 2,800	
Length of Stroke : mm (")		26 (1)	
Blade BOSCH Type		Yes	
shank Oo MAKITA Type			
Orbital action of blade		Yes / 3 stages	
Max.cutting	Wood	* 135 (5-5/16)	
capacities	Mild Steel	10 (3/8)	
: mm (")	Aluminum	20 (25/32)	

nic	Speed control	Yes	
Electronic	Soft start	Yes	
Ele	Variable speed	Yes	
Protection from electric shock		by double insulation	
Net weight: Kg (lbs.)		2.4 (5.3)	
Cord length: m (ft)		2.5 (8.2)	

^{*} With attaching jig saw blade No. B-16L(optoinal accessory),

► Standard equipment

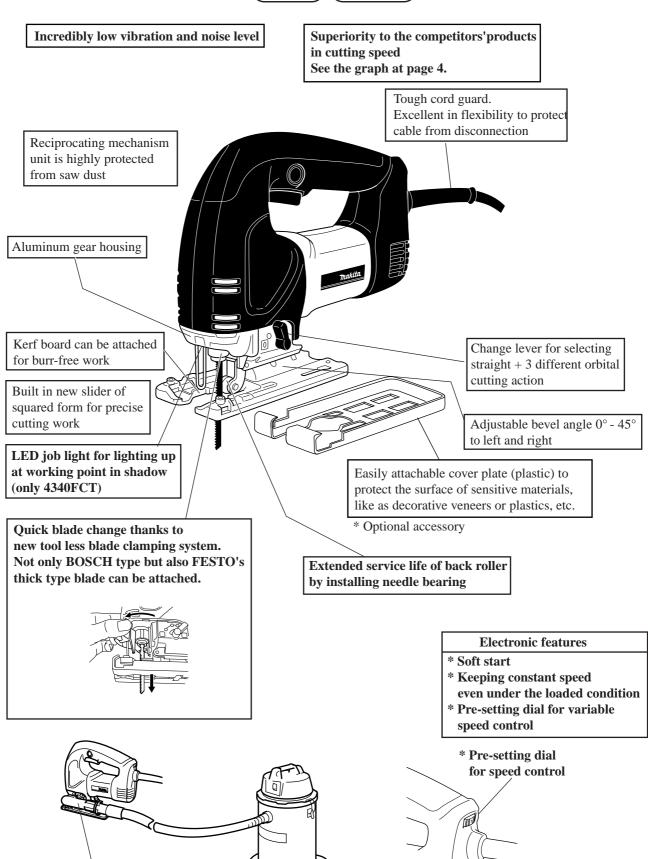
- * Jig saw blade set (including B-10: 2 pcs., BR-13: 2 pcs., B-22: 2 pcs.)....... 1 set * Cover plate ______1 pc. * Hex wrench 1 pc.
- < Note > The standard equipment for the tool shown may differ from country to country.

Optional accessories

- * Guide rule * Jig saw blade No.B-8 * Jig saw blade No.B-10 * Guide rail set * Guide rail adaptor * Jig saw blade No.B-11 * Kerf board * Jig saw blade No.B-12 * Dust nozzle * Jig saw blade No.B-13 * Jig saw blade No.B-14 * Hose * Jig saw blade No.51 * Jig saw blade No.B-15
- * Jig saw blade No.B-17
- * Jig saw blade No.B-18 * Jig saw blade No.B-19
- * Jig saw blade No.B-21
- * Jig saw blade No.B-22 * Jig saw blade No.B-23
- * Jig saw blade No.B-24
- * Jig saw blade No.B-26
- * Jig saw blade No.B-27
- * Jig saw blade No.B-16L
- * Jig saw blade No.BR-13
- * Plastic base plate

- * Jig saw blade No.58
- * Jig saw blade No.B-16
- * Jig saw blade No.B-25

(4340CT) (4340FCT)



* Dust nozzle is the standard equipment for Europe

You can enjoy dust-less work by attaching dust nozzle for connecting with vacuum cleaner

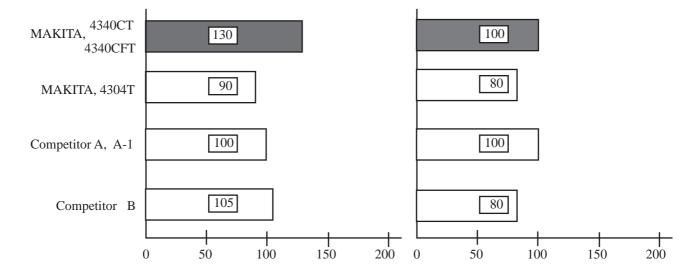
► Comparison of products

Model No.		MAKI	ГА	Comp	petitor A	Competitor B	
Specifications		4340CT / FCT	4304T	A-1	A-2	В	
Power input : W		720	600	580	650	720	
	ke per min.: s	spm.(min -1)	800 - 2,800	500 - 3,000	500 - 3,100	500 - 3,000	1,000 - 2,900
Len	gth of stroke	: mm (")	26 (1)	26 (1)	26 (1)	26 (1)	26 (1)
Cutt	ing	Wood: mm	135	110	110	110	120
l	·. I	(")	(5-5/16)	(4-5/16)	(4-5/16)	(4-5/16)	(4-3/4)
(bev	el angle 0°)	Mild steel : mm (")	(3/8)	10 (3/8)	10 (3/8)	10 (3/8)	10 (3/8)
	Pre-setting defor speed cor	ial	Yes	Yes	Yes	Yes	Yes
Elec	Keeping constant spee	ed	Yes	No	No	Yes	Yes
Ort	oital action		Yes	Yes	Yes	Yes	Yes
Bla	ade B type		0	0	0	0	0
sha	nk M type	00		0			
ı	l less blade mping system	One action clamp type	0			0	0
	mpmg system	Conventional type		0	0		
LEI) job light		Yes / No	No	No	No	No
	Connecting with vacuum cleaner		Yes	Yes	Yes	Yes	Yes
Vib	ration: m/s2	No loaded	3.3	4.8	5.4		3.6
VIO	ration . III/82	Loaded	8.1	11.9	7.7		8.3
Noi	se : dB (A)	No loaded	83	86	83		82
1101	se . ub (11)	Loaded	85	88	86		88
s	Length: mm	1	236 (9-1/4)	249 (9-3/4)	275 (10-7/8)	242 (9-1/2)	232 (9-1/8)
Dimensions	Width: mm (")		73 (2-7/8)	77 (3)	81 (3-3/16)	77 (3)	71 (2-13/16)
Dim	Height: mm		204 (8)	204 (8)	202 (8)	197 (7-3/4)	200 (7-7/8)
Protection from electric shock		by double insulation	by double insulation	by double insulation	by double insulation	by double insulation	
Cord length : m (ft)		2.5 (8.2)	2.5 (8.2)	2.5 (8.2)	4.0 (13.1)	4.0 (13.1)	
Net weight: Kg (lbs)		2.4 (5.3)	2.4 (5.3)	2.4 (5.3)	2.3 (5.1)	2.4 (5.3)	
nts	Plastic carrying case		0	0	0	0	(-Plus type)
Plastic carrying case Blade set Hex wrench Dust nozzle Cover plate		0	0	0	0	0	
		0	0	0	0		
ırd e	Dust nozzle	·	for Europe O	for Europe O	0	0	0
ande	Cover plate		0		0	0	
St	Kerf board		0	0	0	0	0

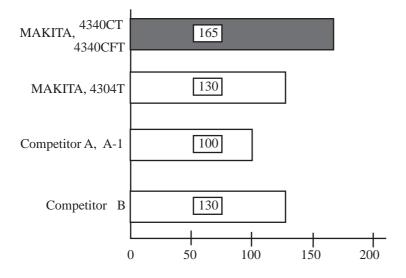
Numbers in graph below are relative values when setting the capacity of competitor A's Mod.A-1 as 100.

Testing conditions			
Jig saw blade	Tooth length: 150mm (5-7/8")		
B-16L	Teeth per inch: 6 T		
Setting of orbital	0		
I Material	Medium Density Fiber Board Thickness: 40mm (1-9/16)		

Testing conditions			
Jig saw blade	Tooth length: 50mm (2")		
B-22	Teeth per inch: 24 T		
Setting of orbital	0		
Material	SPCC Thickness: 3.2mm (1/8)		



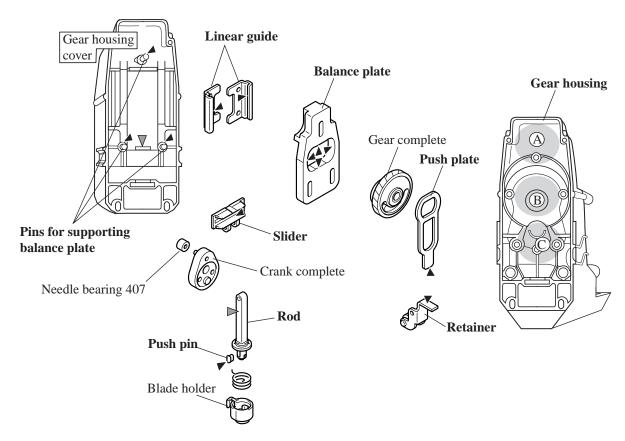
Testing conditions			
Jig saw blade	Tooth length: 150mm (5-7/8")		
B-16L	Teeth per inch: 6 T		
Setting of orbital 3			
Material	Lauan Thickness: 90mm (3-1/2)		





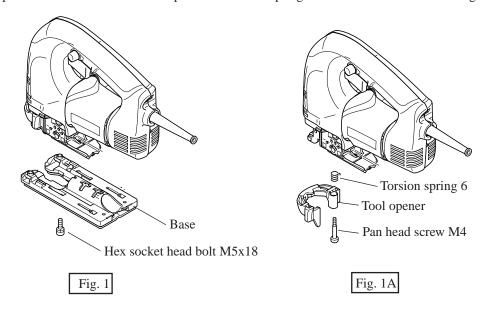
< 1 > Lubrication

Apply MAKITA grease FA. No.2 to the portions marked with black triangle, and machine oil No.120 to the portions marked with gray triangle to protect parts and product from unusual abrasion.



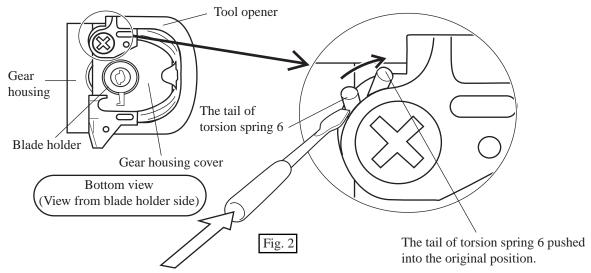
Lubricant to be applied	Parts' name	The portion to be lubricated	
	Gear housing	The positions painted with gray	
	Balance plate	The portion where contacts gear complete.	
MAKITA grease FA. No.2	Gear housing cover	The three pins which supports balance plate.	
	Push plate	The portion where contacts retainer.	
	Retainer	The portion where contacts push plate.	
	Linear guides	The portion where contacts slider.	
	Slider	The portion where contacts needle bearing 407.	
	Push pin	Its whole part	
Machine oil No.120	Gear housing cover	The hole where the rod reciprocates.	
Iviacinne on No.120	Rod	The portion where contacts dust seal.	

- < 2 > Disassembling tool opener
 - 1. Separate base from the jig saw unit by unscrewing hex socket head bolt M5x18. See Fig. 1.
 - 2. Unscrew pan head screw M4. Then tool opener and torsion spring 6 can be disassembled. See Fig. 1A.



< 3 > Assembling tool opener

- 1. Put torsion spring 6 into tool opener. And fasten tool opener with pan head screw M4. See Fig. 1A above.
- 2. Bring the tail of torsion spring 6 which is extruding from tool opener, to the original position by turning it clockwise. See Fig. 2.

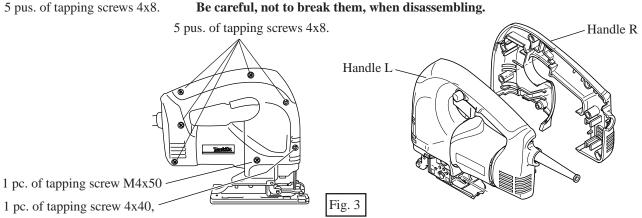


< 4 > Disassembling handle section (Model 4340T / 4340CT / 4340FCT)

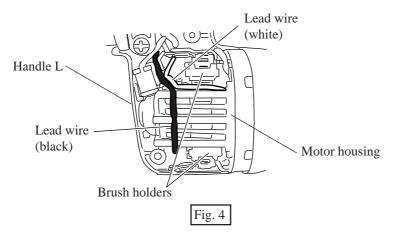
1. Separate handle R from handle L by unscrewing the following screws. See Fig. 3.

1 pc. of tapping screw 4x40, 1 pc. of tapping screw M4x50 < Note in disassembling >
Handles R and L have spi

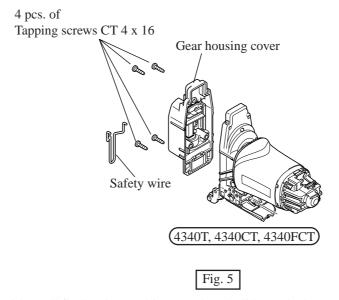
Handles R and L have spikes respectively for fixing on motor housing. Be careful, not to break them, when disassembling.



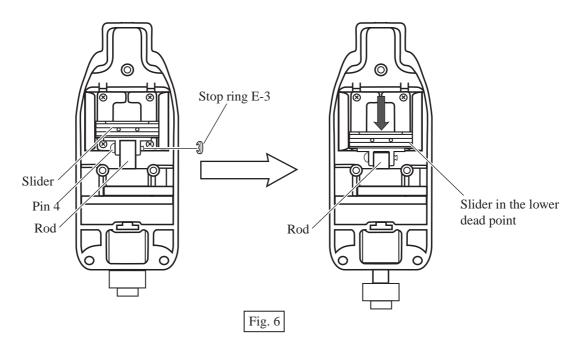
2. After removing lead wires (black and white) from lead holder, separate handle L from motor housing.



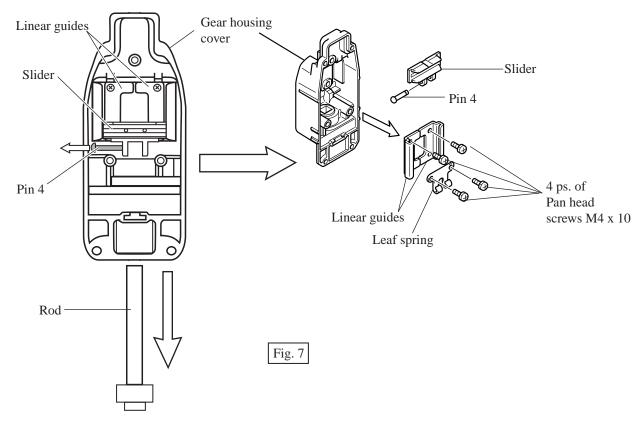
- < 5 > Disassembling gear housing cover section
 - 1.After taking off safety wire from gear housing cover, unscrew 4 pcs. of tapping screws CT 4 x 16. Then, gear housing cover can be separated from gear housing. See Fig. 5.



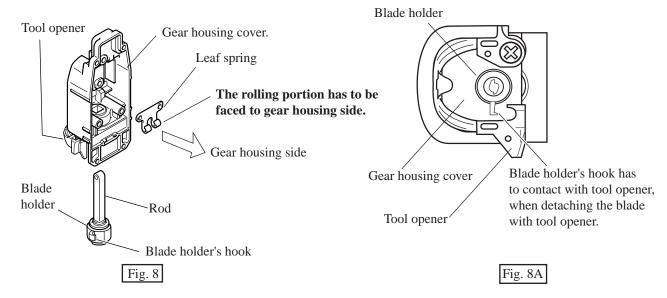
2. Take off stop ring E-3 with small flat head screwdriver. And push slider to the lower dead point. See Fig. 6.



3.Slide pin 4 in order to disconnect rod with slider. And then, pull out rod from gear housing cover. Disassemble linear guides by unscrewing 4 ps. of pan head screws M4 x 10. So, leaf spring, pin 4 and slider can be disassembled from gear housing cover. See Fig. 7.

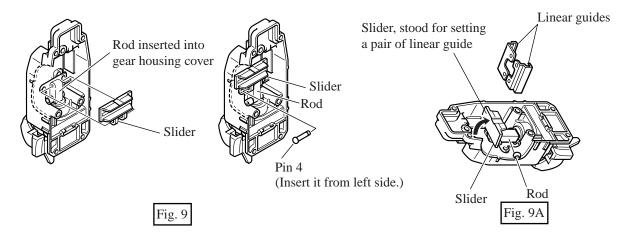


- < 6 > Assembling gear housing cover section
 - 1. Assemble tool opener to gear housing cover with referring to Fig. 1A and Fig. 2 at page 6.
 - 2. Put leaf spring in gear housing cover, paying attention to its assembling direction as illustrated in Fig. 8. And insert rod into gear housing cover, paying attention to the direction of hook of blade holder as illustrated in Fig. 8A.



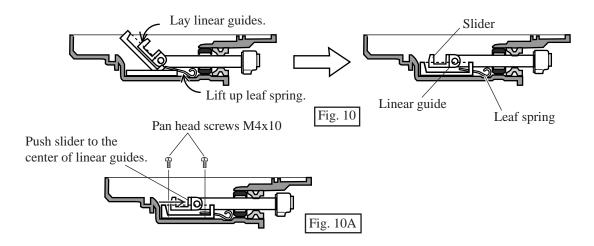
3. Align the hole of slider and the same of rod, and insert pin 4 into the aligned holes from left side as illustrated in Fig. 9.

Stand slider and insert a pair of linear guide as illustrated in Fig. 9A.

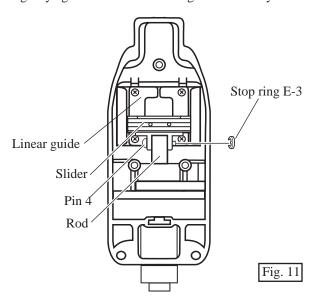


4. Lifting up leaf spring, lay a pair of linear guide in order to position leaf spring on linear guides as illustrated in Fig. 10.

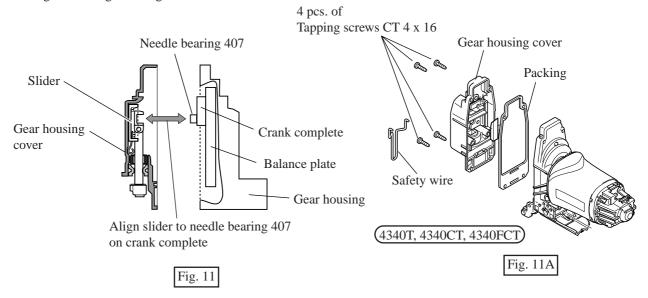
And push slider to the center of linear guides. Fasten linear guides with 4 pcs. of pan head screws M4 x 10 as illustrated in Fig. 10A.



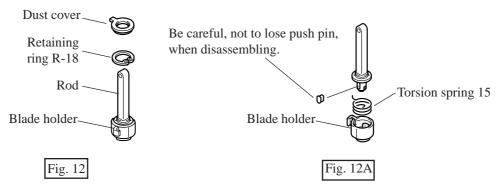
5. Assemble stop ring E-3 to pin 4 as illustrated in Fig. 11. Check, whether slider can reciprocate on linear guide smoothly, or not. If slider does not reciprocate smoothly, incorrectly assembled linear guides can interfere with slider in reciprocating. Try again to assemble linear guides correctly.



- 5. Lubricate the parts assembled in gear housing cover with referring to "< 1 > Lubrication " at page 5.
- 6. Aligning slider to needle bearing 407 on crank complete, assemble gear housing cover section to gear housing as illustrated in Fig. 11. Do not forget to assemble packing between gear housing cover and gear housing. See Fig.11A

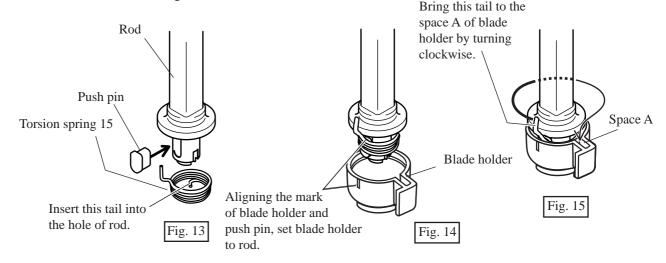


- < 7 > Disassembling blade holder
 - 1. Disassemble rod with referring to "< 5 > Disassembling gear housing cover section" at page 8.
 - 2. Disassemble dust cover, and then disassemble retaining ring R-18. as illustrated in Fig. 12. So blade holder and torsion spring 15 can be separated from rod as illustrated in Fig. 12A.

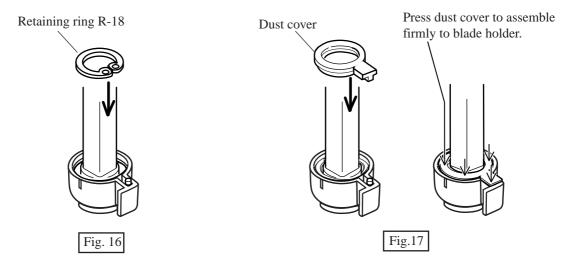


< 8 > Assembling blade holder

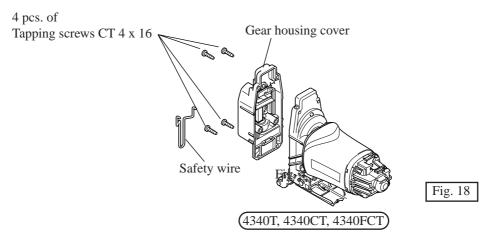
- 1. Apply MAKITA grease FA No.2 to push pin and set it in the hole of rod. And assemble torsion spring 15 to rod by inserting its tail shown in Fig. 13 into the hole of rod.
- 2. Set blade holder to rod as illustrated in Fig. 14. And bring the tail of torsion spring 15 to the space A of blade holder as illustrated in Fig. 15.



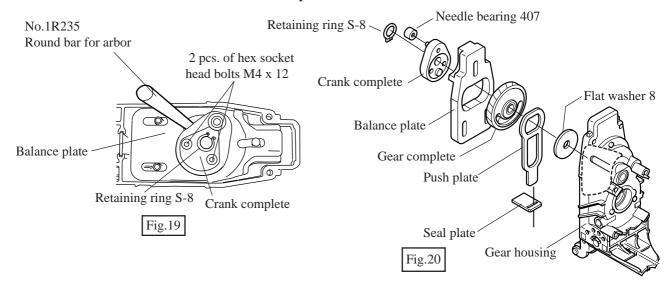
- 3. Push rod into blade holder, and assemble retaining ring R-18 to the groove in blade holder as illustrated in Fig. 16.
- 4. Assemble dust cover as illustrated in Fig.17.



- < 9 > Disassembling parts in gear housing
 - 1. After taking off safety wire from gear housing cover, unscrew 4 pcs. of tapping screws CT 4 x 16. Separate gear housing cover from gear housing. See Fig. 18.



- 2. Locking crank complete with something bar-formed metal, unscrew 2 pcs. of hex socket head bolts M4 x 12 as illustrated in Fig.19.
- 3. Disassemble retaining ring S-8. Then, the inner parts can be disassembled from gear housing as illustrated in Fig.20.
 - < Note in disassembling>
 - 2 pcs. of hex socket head bolts M4 x 12 are adhesive bolts.
 - It is recommended to unscrew them with impact driver.



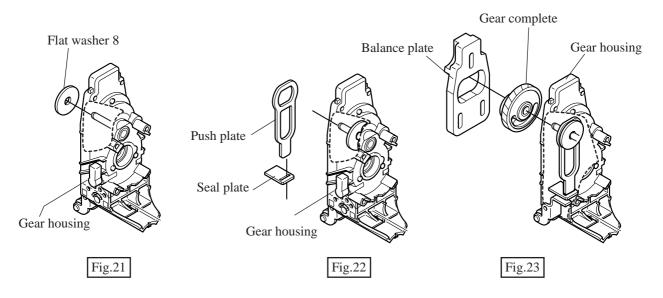


- < 10 > Assembling parts in gear housing
 - 1. Assemble flat washer 8 to the shaft in gear housing. See Fig. 21.
 - 2. After assembling seal plate to push plate, assemble them to the shaft in gear housing. See Fig. 22.
 - 3. Lubricate the parts with referring to " < 1 > Lubrication " at page 5.
 - 4. Assemble gear complete and balance plate to the shaft in gear housing. See Fig. 23.
 - 5. Assemble crank complete to gear housing. With turning crank complete, press it down to the position in which you can see the shaft's groove for retaining ring S-8. See Fig. 24.(With turning crank complete, press it down to the position in which you can see the shaft's groove for retaining ring S-8.)
 - 6. Lock crank complete with something like 1R235 "round bar for arbor", and fasten crank complete with 2 pcs. of hex socket head bolts M4 x 12 with adhesive. See Fig. 25.

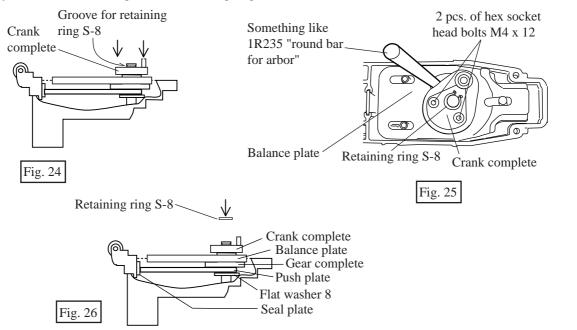
< Note >

Do not fasten with the used hex socket head bolts M4 x 12. The fresh adhesive hex socket head bolts M4 x 12 have to be used. The fastening torque of these bolts is 2.4 - 3.5 N.m.

7. Assemble retaining ring S-8 to the shaft of gear housing. See Fig. 26.

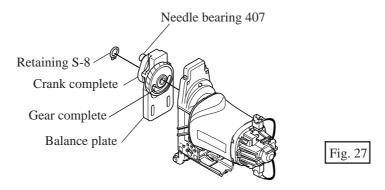


Press crank complete down to the position where you can see the shaft's groove for retaining ring S-8.

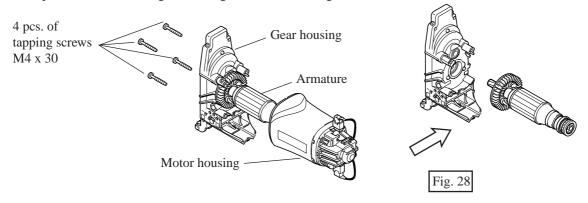




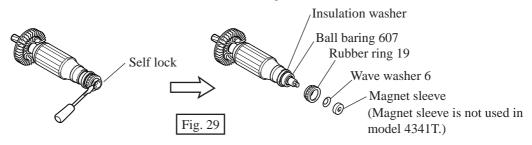
- < 11 > Disassembling armature (4340T, 4340CT, 4340FCT)
 - 1. With referring to the following section, disassemble handle L and R, and gear housing cover.
 - "<4> Disassembling handle section" at page 6
 - "< 5 > Disassembling gear housing cover section" at page 7
 - 2. Disassemble retaining ring S-8, and separate crank complete and balance plate from the shaft of gear housing as illustrated in Fig. 27.
 - < Note in disassembling >
 - * No need to disassembling hex socket head bolt M4 x 12 and crank complete from balance plate.
 - * Be careful, not to lose needle bearing 407.



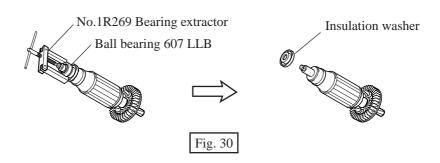
3. Unscrew 4 pcs. of tapping screws M4 x 30, and separate gear housing from motor housing. Separate armature from gear housing as illustrated in Fig. 28.



4. Disassemble self lock with small flat head screwdriver. Then, magnet sleeve, wave washer 6 and rubber ring 19 can be disassembled from armature shaft as illustrated in Fig. 29.

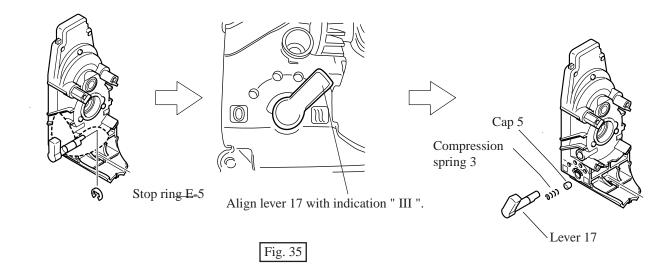


5. Disassemble ball bearing 607 LLB from armature shaft as illustrated in Fig. 30.



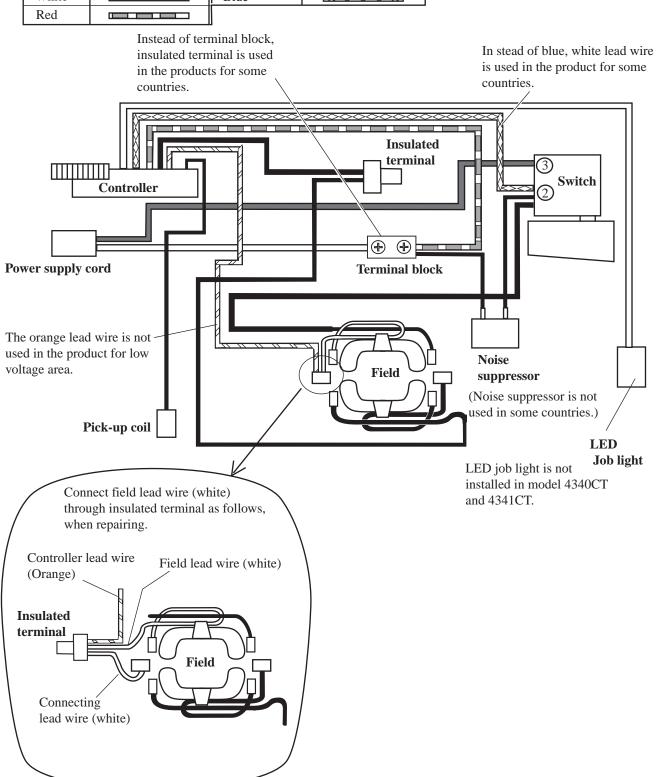


- < 12 > Disassembling lever 17 (for orbital action mode change)
 - 1. With referring to the following section, disassemble handle L and R, or head cover L and R, and gear housing cover.
 - "<4> Disassembling handle section" at page 6 (for 4340T, 4340CT, 4340FCT)
 - "< 5 > Disassembling gear housing cover section" at page 7
 - 2. Disassemble stop ring E-5 from the shaft portion of lever 17 with small flat head screwdriver. See Fig. 35.
 - 3. Aligning lever 17 with indication " III ", pull out it from gear housing. Then, cap 5 and compression spring 3 are disassembled. See Fig. 35.



Model 4340FCT (with controller and LED job light) Model 4340CT (with controller, without LED job light)

Color index of lead wires				
Black Orange				
White		Blue	00000	
Red				

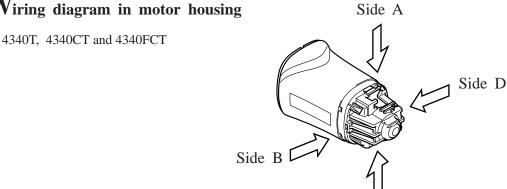


► Circuit diagram P 16 / 19

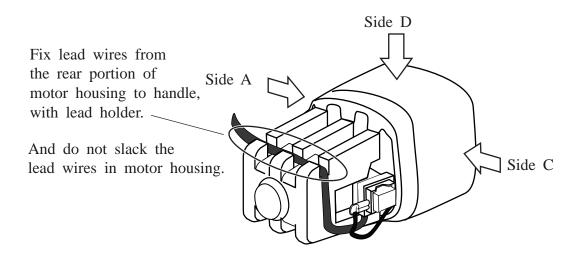
Model 4340T (without controller andt LED circuit)

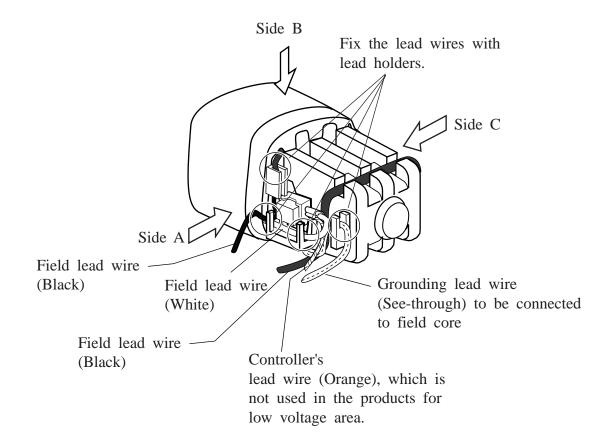
,	,	
Color index of lead wires		
Black		
White		
See-through	Instead of terminal block,	
	insulated terminal is used	
	in the products for some	3
	countries.	Switch
	(+) (+)	_ 11
Power supply cord	Terminal block	7 II
	1	
		
		Noise
	Field Field	Suppressor
		(Noise suppressor is not used in some countries.)
		acta in come countries.)
To be connected to	<i>></i>	
field core.		

► Wiring diagram in motor housing

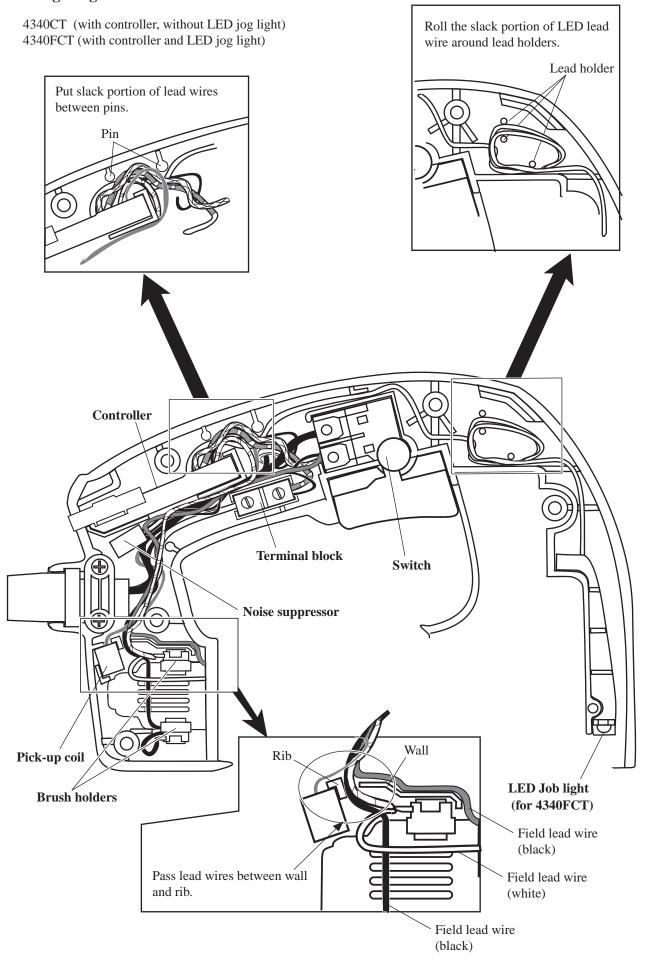


Side C





► Wiring diagram in handle section



► Wiring diagram in handle section

4340T (without controller, without LED jog light)

