

MODELS

C 12LCH

C 12LC

C 12FCH

Hitachi Power Tools

COMPOUND MITER SAW

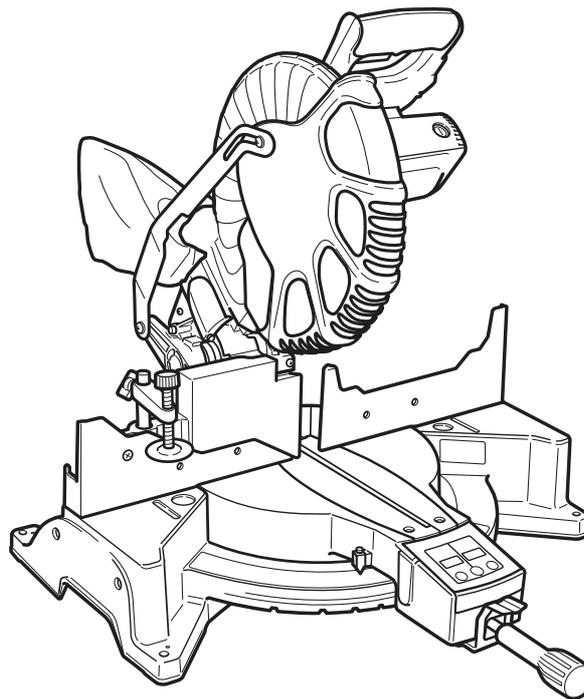
C 12LCH

C 12LC

C 12FCH

**TECHNICAL DATA
AND
SERVICE MANUAL**

C



LIST Nos. C 12LCH: E938
C 12LC : E940
C 12FCH: E939

Revised June 2005

REMARK:

Throughout this TECHNICAL DATA AND SERVICE MANUAL, a symbol(s) is(are) used in the place of company name(s) and model name(s) of our competitor(s). The symbol(s) utilized here is(are) as follows:

Symbol Utilized	Competitor	
	Company Name	Model Name
P	DEWALT	DW705S
Q	DELTA	36-255L
R	RIDGID	MS1250LZ

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1. PRODUCT NAME

Hitachi Compound Miter Saw, Models C 12LCH, C 12LC and C 12FCH

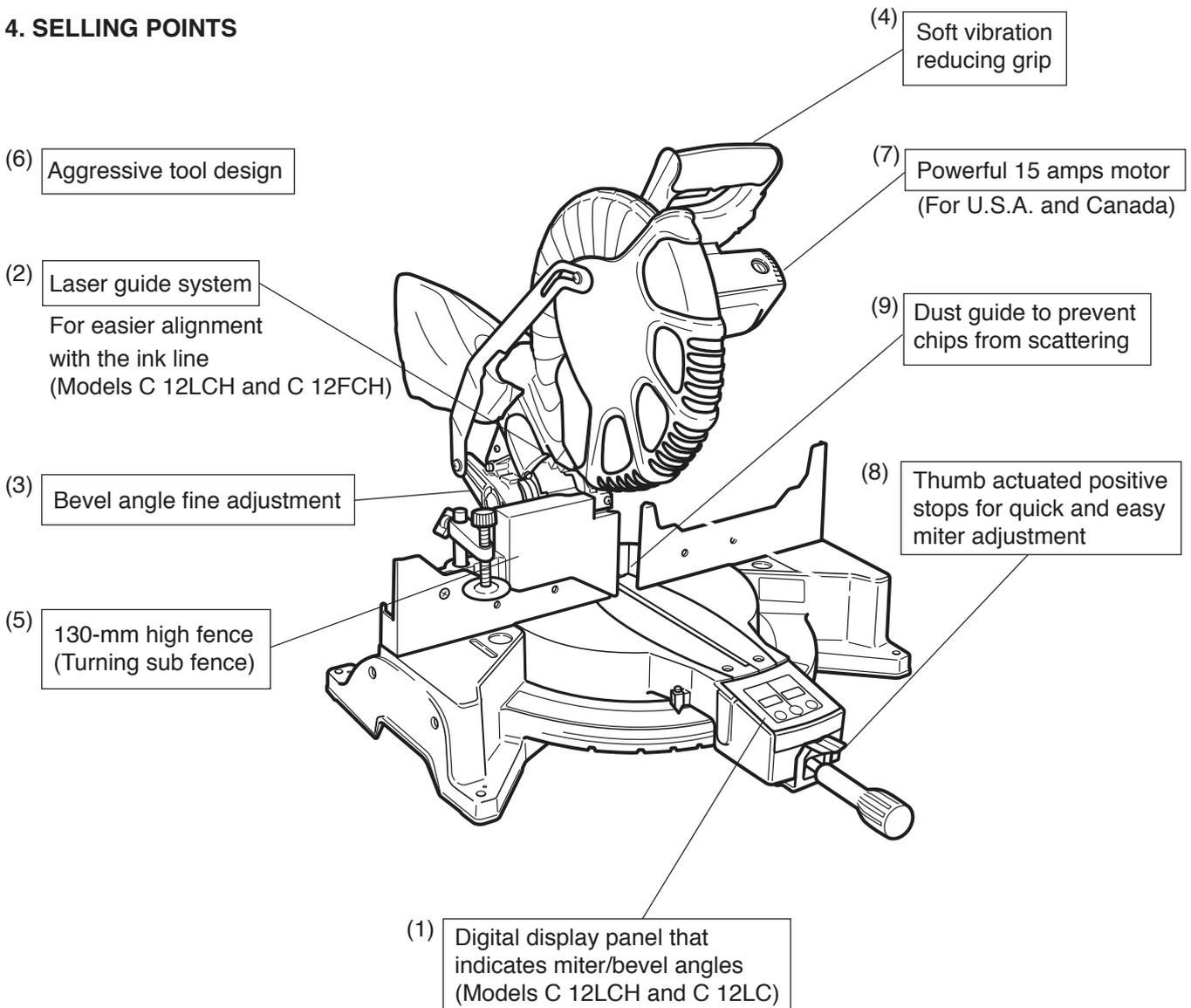
2. MARKETING OBJECTIVE

Following the 10" compound miter saw Model C 10FCH equipped with the laser marker, we introduce the new three 12" compound miter saws Models C 12LCH, C 12LC and C 12FCH. The Models C 12LCH and C 12LC are equipped with the class-first digital display panel that indicates miter/bevel angles. With the new Models C 12LCH, C 12LC and C 12FCH, we aim to expand our market share.

3. APPLICATIONS

- Cutting various types of wood workpieces
- Cutting workpieces of plywood, decoration panels, soft fiberboard and hard board
- Cutting aluminum sashes

4. SELLING POINTS



4-1. Selling Point Descriptions

(1) Digital display panel that indicates miter/bevel angles

Use the digital display panel when cutting a workpiece at an optional angle. The class-first digital display panel indicates a miter/bevel cutting angle with a numeric value. There is no reading error caused by visual check between the indicator and the scale. The digital display indicates a miter angle or a bevel angle in increments of 0.5° . The digital display is equipped with the convenient back light ON/OFF switch that makes the display easily readable even in a dimly lit place.

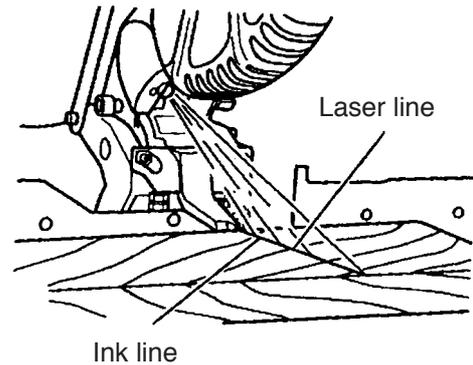


Fig. 1

(2) Laser guide system (Only Models C 12LCH and C 12FCH)

Use the laser marker for aligning with the ink line on the workpiece.

- ① Cutting position can be properly adjusted by aligning the positioning ink line with the laser line. There is no need to make a long ink line on the workpiece.
- ② There is no need to lower the motor head to align with the ink line because the laser marker makes a laser line on the workpiece. In addition, cutting position can be easily adjusted because the operator can hold the workpiece with both hands to move.
- ③ Cutting position can be easily adjusted because the laser line can be aligned with an optionally angled ink line.
- ④ Even the workpieces such as crown moldings and base boards that have decorative surfaces and are difficult to be made an ink line can be cut just by aligning the laser line with the ink line on the fence side. The laser line is adjusted to the width of the saw blade at the time of factory shipment. Depending upon the user's cutting choice, the laser line can be aligned with the left side of the cutting width (saw blade) or the ink line on the right side. Adjust the position of the laser line according to "8-1. Position Adjustment of Laser Line" on page 10.

(3) Bevel angle fine adjustment

The Models C 12LCH, C 12LC and C 12FCH are easily and finely adjustable to an optional bevel angle. Pulling the plates allows the bevel angle to be adjusted by about 48° to the left or about 3° to the right with one-touch simple operation.

(4) Soft, vibration reducing grip

The handle grip is comfortable and slip-resistant thanks to the integrally molded rubber. In addition, it reduces vibration transmitted to the operator's hand. The Models C 12LCH, C 12LC and C 12FCH are easier to operate.

(5) 130-mm high fence (Turning sub fence)

The Models C 12LCH, C 12LC and C 12FCH realize stable cutting thanks to the widely supportable high fence.

(6) Aggressive tool design

The tool color is gunmetallic silver to give a sturdier image. The circular saw portion is of a powerful, original and aggressive design.

(7) Powerful 15 amps motor (for the U.S.A. and Canada)

The Models C 12LCH, C 12LC and C 12FCH are equipped with a 15-ampere motor. The Models C 12LCH, C 12LC and C 12FCH can cut workpieces as quickly as the Model C 10FCB.

(8) Thumb actuated positive stops for quick and easy miter adjustment

The positive stops are provided to adjust the turn table position for miter cutting more securely than the conventional Model C 10FCB. These stops can be actuated (fixed or released) with thumb quickly and easily holding the side handle.

(9) Dust guide to prevent chips from scattering

A dust guide is provided to prevent wood chips from adhering to the saw blade and scattering when cutting the edge of the workpiece.

5. SPECIFICATIONS

		Except for Europe		For Europe	
Maximum cutting dimensions Height x Width (H x W)	0° (Right angle)	63.5 mm (2-1/2") x 200 mm (7-7/8") 98 mm (3-7/8") x 155 mm (6-1/8")		61.5 mm (2-27/64") x 200 mm (7-7/8") 96 mm (3-25/32") x 155 mm (6-1/8")	
	Miter right/left 45°	63.5 mm (2-1/2") x 140 mm (5-1/2")		61.5 mm (2-27/64") x 140 mm (5-1/2")	
	Miter right/left 52°	63.5 mm (2-1/2") x 120 mm (4-3/4")		61.5 mm (2-27/64") x 120 mm (4-3/4")	
	Bevel left 45°	42 mm (1-5/8") x 200 mm (7-7/8")		40 mm (1-37/64") x 200 mm (7-7/8")	
	Miter right/left 45° + Bevel left 45°	42 mm (1-5/8") x 140 mm (5-1/2")		40 mm (1-37/64") x 140 mm (5-1/2")	
Miter cutting ranges		Right and left 0° – 52°			
Bevel cutting ranges		Left -3° – 48°			
Compound (miter + left bevel) cutting ranges		Miter: Right and left 0° – 45°, Bevel: Left 0° – 45°			
Angle stopper positions		Right and left 0°, 15°, 22.5°, 31.6°, 45°			
Saw blade outer diameter		305 mm (12") external dia.			
Saw blade bore		USA/CAN	Europe	Asia/China	AUS/NZL
		25.4 mm (1")	30 mm (1-11/64")	25.4 mm (1")	25.4 mm (1") and 30 mm (1-11/64")
Lower guard lock		Not provided	Provided	Not provided	Not provided
Digital display (For Models C 12LCH/C 12LC)		Precision ± 0.5° (It is not the actual precision when cutting a wood workpiece.)			
Laser marker (Models C 12LCH/ C 12FCH)	Maximum output	< 1 mW (CLASS II)			
	Wave length	400 nm – 700 nm			
	Laser medium	Laser diode			
Power source type and voltage		AC single phase 60 Hz, 120V			
Type of motor		AC single phase commutator series motor			
Full-load current		110 V – 120 V: 15 A, 220 V: 7.5 A, 230 V: 7.2 A, 240 V: 6.9 A			
No-load rotation speed		4,000 min ⁻¹			
Max. output		1,950 W			
Main unit dimensions Width x Depth x Height		625 mm x 775 mm x 610 mm (24-5/8" x 30-1/2" x 24")			
Weight	C 12LCH	19.5 kg (43.0 lbs.), gross weight 26 kg (57 lbs.)			
	C 12LC/C 12FCH	19.0 kg (41.9 lbs.), gross weight 25.5 kg (56 lbs.)			
Coating		Gunmetallic silver			
Packaging		Corrugated cardboard box			
Cord		Type: 2-conductor cabtire cable Length: 1.8 m (6 ft)			

Standard accessories	<ul style="list-style-type: none"> • 305 mm (12") TCT saw blade (32 teeth, Code No. 323522) for wood cutting (except for China, Europe) • 305 mm (12") TCT saw blade (120 teeth, Code No. 324269) for aluminum cutting (for China) • 305 mm (12") TCT saw blade (32 teeth, Code No. 324268) for wood cutting (for Europe) • Dust bag • Vise ass'y • 17 mm box wrench • 4 mm hex. bar wrench (For Models C 12LCH/C 12FCH)
Optional accessories	<ul style="list-style-type: none"> • 305 mm (12") TCT saw blade (60 teeth, Code No. 305546) • Extension holder and stopper • Crown molding vise ass'y (including crown molding stopper (L)) • Crown molding stopper (L) • Crown molding stopper (R)

6. COMPARISONS WITH SIMILAR PRODUCTS

Maker/Model		HITACHI	P	Q	R
Item		C 12LCH/C 12LC/C 12FCH			
Max. cutting dimensions Height x Width (H x W)	0° (Right angle)	63.5 mm x 200 mm (2-1/2" x 7-7/8") 98 mm x 155 mm (3-7/8" x 6-1/8")	63.5 mm x 200 mm (2-1/2" x 7-7/8") 99 mm x 149 mm (3-29/32" x 5-7/8")	57 mm x 203 mm (2-1/4" x 8") 83 mm x 178 mm (3-1/4" x 7")	51 mm x 203 mm (2" x 8") 94 mm x 158 mm (3-11/16" x 6-7/32")
	Miter right/left 45°	63.5 mm x 140 mm (2-1/2" x 5-1/2")	63.5 mm x 140 mm (2-1/2" x 5-1/2")	57 mm x 133 mm (2-1/4" x 5-7/32")	51 mm x 153 mm (2" x 6")
	Bevel left 45°	42 mm x 200 mm (1-5/8" x 7-7/8")	43 mm x 200 mm (1-11/16" x 7-7/8")	32 mm x 203 mm (1-1/4" x 8")	51 mm x 203 mm (2" x 8")
	Miter right/left 45° + Bevel left 45°	42 mm x 140 mm (1-5/8" x 5-1/2")	43 mm x 140 mm (1-11/16" x 5-1/2")	63.5 mm x 133 mm (2-1/2" x 4")	51 mm x 137 mm (2" x 5-13/32")
Miter cutting ranges		Right and left 0° – 52°	Right and left 0° – 48°	Right and left 0° – 47°	Right and left 0° – 47°
Bevel cutting ranges		Left -3° – 48°	Left -3° – 48°	Left -3° – 48°	Left -2° – 47°
Compound (miter + left bevel) cutting ranges		Miter: Right and left 0° – 45° Bevel: Left 0° – 45°	Miter: Right and left 0° – 45° Bevel: Left 0° – 45°	Miter: Right and left 0° – 45° Bevel: Left 0° – 45°	Miter: Right and left 0° – 45° Bevel: Left -2° – 45°
Angle stopper position		Right and left 0°, 15°, 22.5°, 31.6°, 45°	Right and left 0°, 15°, 22.5°, 31.6°, 45°	Right and left 0°, 15°, 22.5°, 31.6°, 45°	Right and left 0°, 15°, 22.5°, 31.6°, 45°
Saw blade outer diameter (mm)		305 (12")	305 (12")	305 (12")	305 (12")
Digital display		Provided (Models C 12LCH/C 12LC)	None	None	None
Motor	Full-load current (A)	15	15	15	15
	No-load revolution (min ⁻¹)	4,000	4,000	3,500	4,000
	Power input (W)	1,520	—	—	—
	Max. output (W)	1,950	—	—	—
Laser marker		C 12LCH/ C 12FCH Provided	C 12LC Not provided	Not provided	Provided
Laser output		1 mW	—	1 mW	5 mW
Insulation structure		Double insulation	Double insulation	Double insulation	Double insulation
Debris guard		Provided (fixed)	None	Provided	None
Dust bag size (mm)		250 x 160 (9-27/32" x 6-5/16")	—	—	270 x 200 (10-5/8" x 7-7/8")
Main unit dimensions Width x Depth x Height		625 x 775 x 610 (24-5/8" x 30-1/2" x 24")	585 x 635 x 600 (23-1/32" x 25" x 23-5/8")	889 x 914 x 578 (35" x 36" x 22-3/4")	630 x 616 x 630 (24-13/16" x 24-1/4" x 24-13/16")
Product weight (kg)		C 12LCH 19.5 (43.0 lbs.)	C 12LC/FCH 19 (41.9 lbs.)	19.3 (43 lbs.)	22.5 (50 lbs.)
Standard accessories		<ul style="list-style-type: none"> • 305 mm (12") TCT saw blade (32 teeth) for wood cutting • Dust bag • Vise ass'y • 17 mm box wrench • 4 mm hex. bar wrench (Models C 12LCH/C 12FCH) 	<ul style="list-style-type: none"> • 305 mm (12") carbide blade (60 teeth) • Dust bag • Blade wrench 	<ul style="list-style-type: none"> • 305 mm (12") saw blade • Dust bag • Blade wrench • 3 mm hex. bar wrench • 6 mm hex. bar wrench • Extension table • Slide fence 	<ul style="list-style-type: none"> • 305 mm (12") carbide blade (40 teeth) • Dust guide • Dust bag • Vise ass'y • Blade wrench • Extension table • Leg stand
Optional accessories		<ul style="list-style-type: none"> • 305 mm (12") TCT saw blade (60 teeth) for normal cutting • Extension holder and stopper • Crown molding vise ass'y (including crown molding stopper (L)) • Crown molding stopper (L) • Crown molding stopper (R) 	<ul style="list-style-type: none"> • Extension holder and stopper • Vise ass'y • Crown molding stopper 		

7. PRECAUTIONS IN SALES PROMOTION

In the interest of promoting the safest and most efficient use of the Models C 12LCH, C 12LC and C 12FCH Compound Miter Saws by all of our customers, it is very important that at the time of sale the salesperson carefully ensures that the buyer seriously recognizes the importance of the contents of the Instruction Manual, and fully understands the meaning of the precautions listed on the Warning Labels and Caution Labels attached to each machine.

7-1. Instruction Manual

Although every effort is made in each step of design, manufacture and inspection to provide protection against safety hazards, the dangers inherent in the use of any compound miter saw cannot be completely eliminated. Accordingly, general precautions and suggestions for the use of electric power tools, and specific precautions and suggestions for the use of the compound saw are listed in the Instruction Manual to enhance the safe, efficient use of the tool by the customer. Salespersons must be thoroughly familiar with the contents of the Instruction Manual to be able to offer appropriate guidance to the customer during sales promotion.

7-2. Warning Labels and Caution Labels

(1) Precautions on the name plate

Each Model C 12LCH/C 12LC/C 12FCH is furnished with a Name Plate that lists the following precautions.

USA/CAN

CAUTION / AVERTISSEMENT
● For safe operation, see Instruction Manual. / Lire avec attention la notice d'utilisation. ● Do not expose to rain or use in damp locations. / Ne pas exposer à la pluie et ne pas utiliser dans les emplacements humides.

Fig. 2-1

Europe



Fig. 2-2

AUS/NZL/China/Asia

CAUTION
● Read thoroughly HANDLING INSTRUCTIONS before use. ● Ensure that power supply is disconnected before replacing blades, cutter etc. or carrying out any maintenance. ● Use protective glasses while operating.

Fig. 2-3

Instruct the customer to thoroughly read the Instruction Manual prior to operate the machine.

(2) Warning label (A)

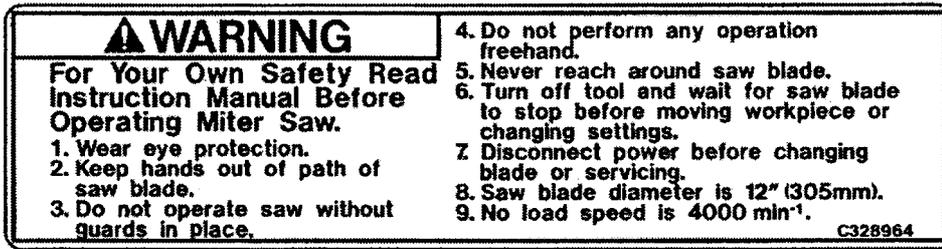


Fig. 3

Warning label (A) specified by the UL is affixed on the right side of the base. Please instruct users to strictly observe the contents 1 to 9 in warning label (A) shown above.

(3) Caution label (B) (at the side of the gear case) (Models C 12LCH/C 12FCH)

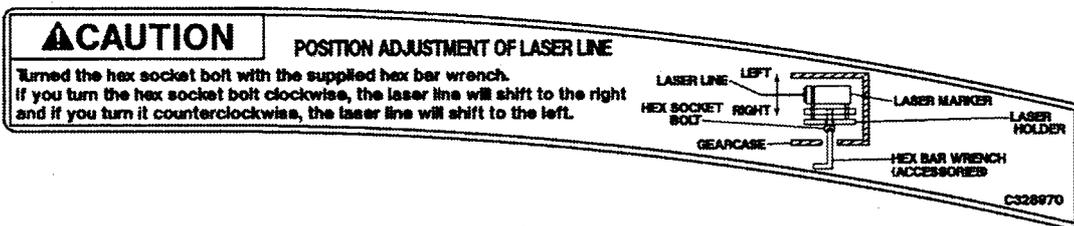


Fig. 4

(4) Caution label (A) (at the front of the hinge) and caution label (C) (at the front of the base) (Models C 12LCH/C 12FCH)

Do not stare into laser beam. If your eye is exposed directly to the laser beam, it can be hurt. Caution label (A) and caution label (C) are adhered to each machine to comply with the standards for the safe use of laser equipment.

- Caution label (A) (at the front of the hinge) (Models C 12LCH/C 12FCH)

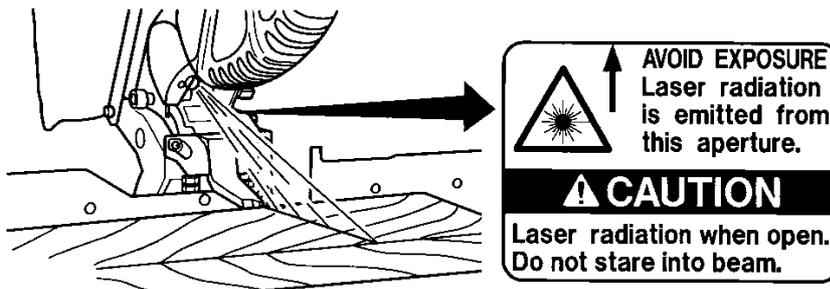


Fig. 5

- Caution labels (C) and (D) (at the front of the base) (Models C 12LCH/C 12FCH)

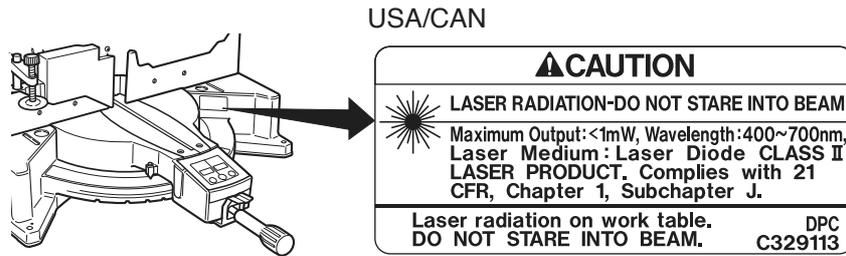


Fig. 6-1



Fig. 6-2

- (5) Warning label (C) (at the front of sub fence)

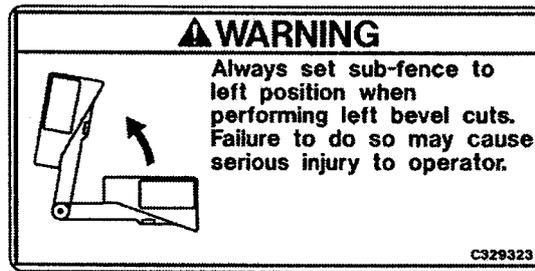


Fig. 7

- (6) Caution label (F) (at the front of link (B)) (for Europe)

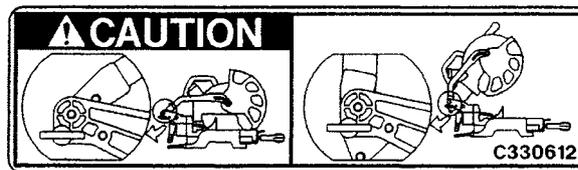


Fig. 8

7-3. Relative Standards

Standards, regulations and guidelines for the safe use of laser equipment.

[The U. S. A.]

There is a standard "Complies with 21 Code of Federal Regulation (21 CFR), Chapter 1, Subchapter J, Part 1010 and 1040" established by the Center for Devices and Radiological Health (CDRH) of the Food and Drug Administration (FDA). Standards, regulations and guidelines of the other countries are under investigation.

[AUS/NZL] AS/NZS 2211, 1: 1997

[Europe] EN 60825-1: 2001-11

7-4. Laser Marker (Models C 12LCH/C 12FCH)

The Models C 12LCH and C 12FCH are equipped with the laser marker that complies with the U. S. A. standard, FDA Complies with 21 CFR, Food and Drugs, Part 1040 "Performance Standard for Light-emitting Products", Class II. The Class II laser is defined as follows:

- The laser power is low and it is safe by the protective measures such as blinking. However, it is dangerous if the operator's eyes are exposed directly to the laser for a protracted period.
- The operator can use the laser equipment without particular training and instruction.
- The amount of light exposure (output) is 1mW or less at the position where the operator can be exposed to the laser radiation during operation.

Table 1

Wave length (nm)	Emission duration (s)	Class II accessible emission limit		
		(Threshold value)	(Unit)	(Amount)
> 400 ≤ 710	> 2.5 x 10 ⁻¹	1.0 x 10 ⁻³	W	Radiant power

The saw blade unit prevents access of the operator's eye to the laser emitting aperture less than 65 mm. In addition, the amount of light exposure (output) is 1 mW or less (about 0.4 mW) at this position. Thus the Models C 12LCH and C 12FCH satisfy the Class II requirements adequately. There is no ill effect on the operator's body if looking at the laser line on the workpiece during operation.

CAUTION: (1) Be sure to disconnect the power cord plug from the receptacle before removing the laser marker for repair. If it is unavoidable to check the operation of the removed laser marker with the power turned on, face the laser emitting aperture to the ground to show the laser line on the ground.

(2) Laser radiation when open. DO NOT STARE INTO BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.

The lifespan of the laser marker in the Models C 12LCH and C 12FCH are about 2,160 hours. (About three years: 4 hours of use/day x 180 days/year)

7-5. Ambient Illuminance and Visibility of Laser Line (Models C 12LCH/C 12FCH)

The visibility of the laser line on the workpiece changes depending on the brightness of the working environment. Instruct the customer to consider the brightness of the working environment when using the laser marker referring to the following table.

Table 2 Ambient illuminance and visibility of laser line

Illuminance (lux)		3000 or more	3000 or more	3000 - 2500	800 - 600	300 - 200	150 - 80	30 or less
Ambient conditions (reference)	Outdoor	Under direct sunlight of fine weather	Shaded area in fine weather	Cloudy weather	Shaded area in cloudy weather	Just before the sunset in cloudy weather	—	Ink line is invisible.
	Indoor	—	Near the window under fine weather	Indoor under fine weather	Near the window under cloudy weather	Indoor under cloudy weather	Near the window under cloudy weather, just before the sunset	
Laser line		Invisible	Visible	Visible	Visible	Visible	Glaring	Glaring

(The working environment where the illuminance is 200 luxes or less is dark and difficult to operate the Models C 12LCH and C 12FCH.)

The laser line is invisible under direct sunlight of fine weather. Prepare a shaded area or relocate to a shaded area to operate the Models C 12LCH and C 12FCH.

8. ADJUSTMENT AND OPERATION PRECAUTIONS

8-1. Position Adjustment of Laser Line (Models C 12LCH/C 12FCH)

The laser line is adjusted to the width of the saw blade at the time of factory shipment. Depending upon the cutting choice, align the laser line with the left side of the cutting width (saw blade) or the right side according to the following procedure. First, make a right-angle ink line on the workpiece that is about 38 mm (1-1/2") in height and 89 mm (3-1/2") in width. To cut the right side of the ink line with the saw blade as shown in Fig. 11, align the left side of the saw blade with the ink line on the workpiece and make a groove of about 5 mm deep on the workpiece to the middle. Hold the grooved workpiece by the vise as it is and do not move it. Light up the laser marker. Then insert a 4 mm hex. bar wrench in the 12 diameter hole on the side of the gear case, turn the hex. socket set screw to move the laser line. (If you turn the hex. socket screw clockwise, the laser line will shift to the right and if you turn it counterclockwise, the laser line will shift to the left.) (Fig. 10)

Thus the cutting position matches the laser line position. Align the ink line on the workpiece with the laser line. When aligning the ink line, slide the workpiece little by little and secure it by vise at a position where the laser line overlaps with the ink line (Fig. 11). Work on the grooving again and check the position of the laser line. When the ink line and the laser line are overlapped, the strength and weakness of light will change, resulting in a stable cutting operation because you can easily discern the conformity of lines. This ensures the minimum cutting errors.

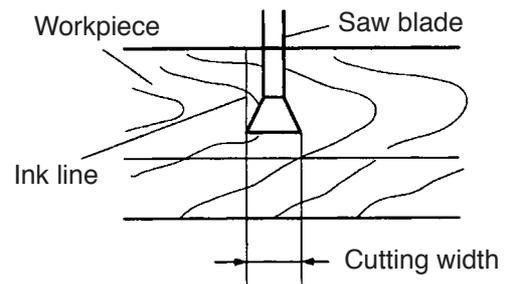


Fig. 9

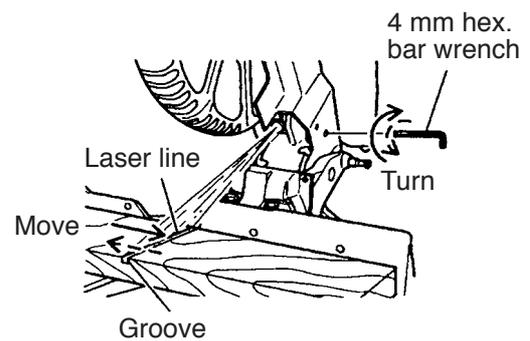


Fig. 10

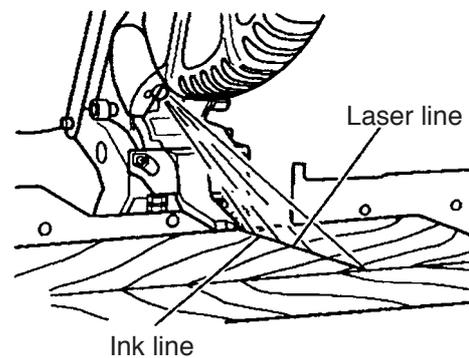


Fig. 11

⚠ WARNING:

- **Make sure before plugging the power plug into the receptacle that the main body and the laser marker are turned off.**
- **Exercise utmost caution in handling a switch trigger for the position adjustment of the laser line, as the power plug is plugged into the receptacle during operation. If the switch trigger is pulled inadvertently, the saw blade can rotate and result in unexpected accidents.**
- **Do not remove the laser marker to be used for other purposes.**

⚠ CAUTION:

- **Laser radiation - Do not stare into beam.**
- **Laser radiation on work table. Do not stare into beam. If your eye is exposed directly to the laser beam, it can be hurt.**
- **Do not dismantle it.**
- **Do not give strong impact to the laser marker (main body of tool); otherwise, the position of a laser line can go out of order, resulting in the damage of the laser marker as well as a shortened service life.**
- **Keep the laser marker lit only during a cutting operation. Prolonged lighting of the laser marker can result in a shortened service life.**
- **Use of controls adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.**

NOTE:

- **Perform cutting by overlapping the ink line with the laser line. When the ink line and the laser line are overlapped, the strength and weakness of light will change, resulting in a stable cutting operation because you can easily discern the conformity of lines. This ensures the minimum cutting errors.**
- **In outdoor or near-the-window operations, it may become difficult to observe the laser line due to the sunlight. Under such circumstances, move to a place that is not directly under the sunlight and engage in the operation.**
- **Do not tug on the cord behind the motor head or hook your finger, wood and the like around it; otherwise, the cord may come off and the laser marker may not be lit up.**
- **The laser marker will not light up if the digital display switch is turned off. (Only Model C 12LCH)**

Instruct the above precautions on the laser marker to the customers.

8-2. How to Use the Vise Assembly

- (1) The vise assembly can be mounted on either the left fence (fence (B)) or the right fence (fence (A)) by loosening 6 mm wing bolt (A).
- (2) The screw holder can be raised or lowered according to the height of the workpiece by loosening 6 mm wing bolt (B). After the adjustment, firmly tighten 6 mm wing bolt (B) and fix the screw holder.
- (3) Turn the upper knob and securely fix the workpiece in position (Fig. 12).

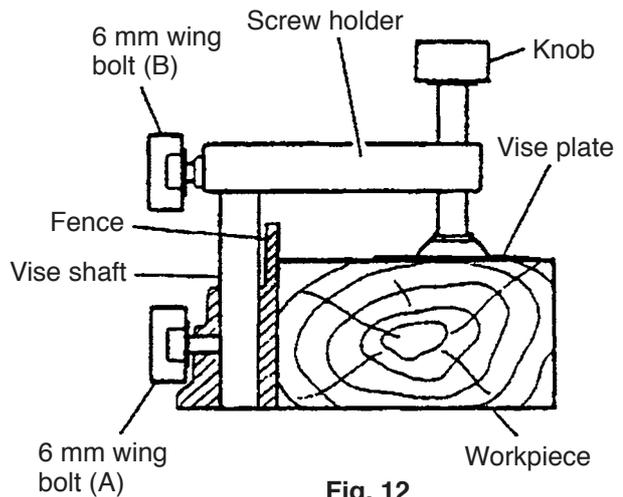


Fig. 12

⚠ WARNING: Always firmly clamp or vise to secure the workpiece to the fence; otherwise the workpiece might be thrust from the table and cause bodily harm.

⚠ CAUTION: Always confirm that the motor head does not contact the vise assembly when it is lowered for cutting. If there is any danger that it may do so, loosen the 6 mm wing bolt (B) and move the vise assembly to a position where it will not contact the saw blade.

8-3. Confirmation for Use of Sub Fence

This power tool is equipped with a sub fence.

In the case of direct angle cutting and angle cutting, use the sub fence. Then you can realize stable cutting of the material with a wide back face.

In the case of left bevel cutting, raise the sub fence up as illustrated in Fig. 13 and then turn it counterclockwise.

⚠ WARNING: In the case of left bevel cutting, turn the sub fence counterclockwise. Unless it is turned counterclockwise, the main body or saw blade may contact the sub fence, resulting in an injury.

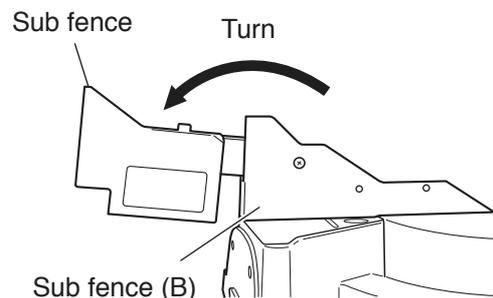


Fig. 13

8-4. Cutting Operation

- (1) Cutting efficiency will be reduced if a dull saw blade is used, if an excessively long extension cord is used, or if the wire gauge of the extension cord is too small. (For details on extension cords, please refer to the Instruction Manual.) This is particularly important when cutting materials with dimensions which are at or near the maximum capacity for the machine.
- (2) The customer should be advised to thoroughly inspect the workpiece to ensure that there are no metallic objects (nails in particular), sand, or other foreign matter in or on the workpiece. Saw blade contact with such foreign matter will not only shorten the service life of the saw blade, but could cause serious accident. Should the saw blade tips be broken off, the tips may fly toward the operator.
- (3) Direct current cannot be used. The switch can be faulty if used.

(4) Press cutting

The Models C 12LCH, C 12LC and C 12FCH can be used for press cutting of workpieces up to 63.5 mm x 200 mm (2-1/2" x 7-7/8") (except for Europe) in a single operation by simply pushing the saw blade section (head) downward.

The customer should be cautioned that excessive pressure on the handle will not increase the cutting speed. On the contrary, excessive pressure may result in reduced cutting efficiency (irregular or rough cutting of the workpiece), and could also cause overload and subsequent burnout of the motor.

On completion of the cutting operation, turn the switch OFF and wait for the saw blade to come to a complete stop before raising the saw blade section (head) to its original position. Raising the saw blade section (head) while the saw blade is rotating may cause unwanted cutting marks on the workpiece.

Techniques to avoid unwanted cutting marks

Uneven and unwanted cutting marks can be avoided throughout the cutting operation by gently and smoothly pressing down on the handle, so that the entire cutting operation is accomplished in a single uninterrupted motion.

(5) Miter cutting

Miter cutting is accomplished by turning the table. (For details, please refer to the Instruction Manual.)

(6) Bevel cutting

Bevel cutting of 0 – 45° to the left is accomplished by inclining the saw blade section (head). (For details, please refer to the Instruction Manual.)

⚠ CAUTION:

When the workpiece is secured on the left side, the cut-off portion comes to rest on the side of the saw blade as illustrated in Fig. 14. If the handle is raised before the saw blade rotation comes to a complete stop, there is a chance that the cut-off portion of the workpiece could become jammed against the saw blade, causing a hazardous condition. Instruct the customer to ensure without fail that the saw blade comes to a complete stop before attempting to raise the handle.

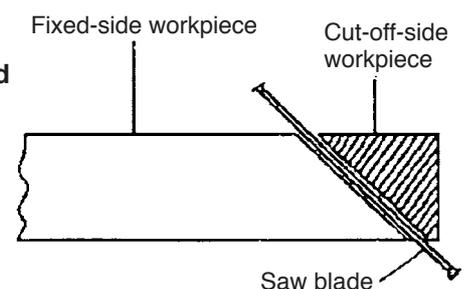


Fig. 14

(7) Bevel angle fine adjustment

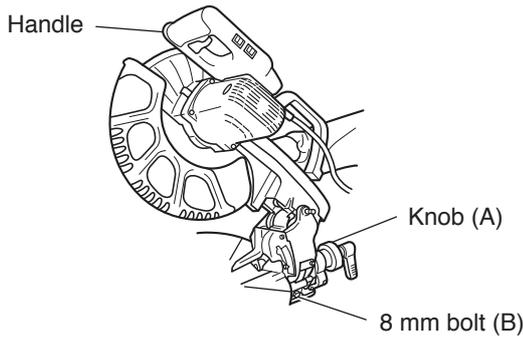


Fig. 15-1

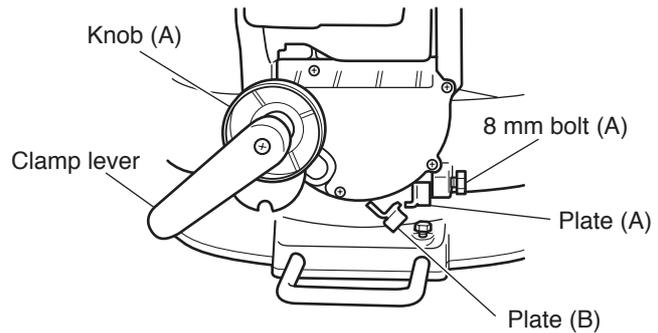


Fig. 15-2

① Grip the handle on the motor head and position it at the bevel angle you need. Temporarily tighten the clamp lever.

⚠ CAUTION: If not tightened firmly enough the motor head might suddenly move or slip, causing injuries. Be sure to tighten the motor head section enough so it will not move.

② Make fine adjustments to the bevel angle by gripping the handle and moving knob (A).

NOTE: Turning knob (A) clockwise, allows fine adjustment of the main unit to the left (as seen from front).

Turning knob (A) counterclockwise, allows fine adjustment of the main unit to the right (as seen from front).

If you tilt the main unit in the direction that does not place a load on plate (A) and pull plate (A), the contact position changes and the right slope angle becomes 3°.

If you tilt the main unit in the direction that does not place a load on plate (B) and pull plate (B), the contact position changes and the right slope angle becomes 48°.

③ After adjusting to the desired angle, tighten the clamp lever and clamp the motor head.

⚠ CAUTION: Instruct the customers to always check that the clamp lever is secured and the motor head is clamped. If customers attempt angle cutting without clamping the motor head, then the motor head might shift unexpectedly causing injuries.

(8) **Compound (miter + bevel) cutting**

Compound cutting can be accomplished by combining the miter cutting and bevel cutting operations described in paragraphs (5) and (6) above. (For details, please refer to the Instruction Manual.) When the saw blade section (head) is inclined 45° to the left, the table can be turned up to 45° to the right and left.

(9) **Crown molding cutting**

This machine can cut two types of crown molding workpieces by combining the miter and bevel cutting operations (for USA).

Figure 16 shows two common crown molding types having angles of (θ) 38° and 45°. For the typical crown molding fittings, see Fig. 17.

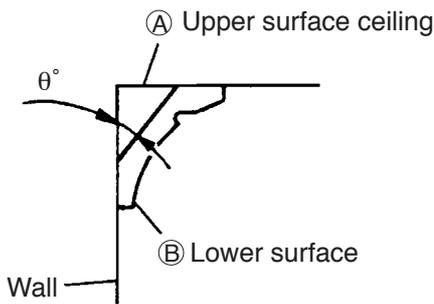


Fig. 16

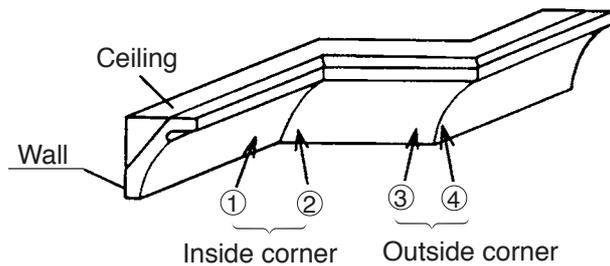


Fig. 17

The table below shows the miter angle and the bevel angle settings that are ideal for the two crown molding types.

NOTE: For convenience, positive stops are provided for both the miter setting and the bevel setting (left and right 31.6°) positions.

For miter cut setting

If the turn table has been set to either of the angles described, move the turn table adjusting side handle a little to the right and left to stabilize the position and to properly align the miter scale and the tip of the indicator before the operation starts.

For bevel cut setting

Move handle on miter section to the right and left and check that the position is stable and the angle scale and the tip of the indicator are properly aligned. Then tighten the clamp lever.

Table 3

Type of crown molding	To process crown molding at positions ① and ④ in Fig. 16		To process crown molding at positions ② and ③ in Fig. 16	
	Miter angle setting	Bevel angle setting	Miter angle setting	Bevel angle setting
45° type	Right 35.3° (● mark)	Left 30° (● mark)	Left 35.3° (● mark)	Left 30° (● mark)
38° type	Right 31.6° (▲ mark)	Left 33.9° (▲ mark)	Left 31.6° (▲ mark)	Left 33.9° (▲ mark)

(1) Setting to cut crown molding at positions ① and ④ in Fig. 17 (See Fig. 18, tilt the head to the left.):

- ① Turn the turn table to the right and set the miter angle as follows:
 - For 45° type crown moldings: 35.3° (● mark)
 - For 38° type crown moldings: 31.6° (▲ mark)
- ② Turn the head to the left and set the bevel angle as follows:
 - For 45° type crown moldings: 30° (● mark)
 - For 38° type crown moldings: 33.9° (▲ mark)
- ③ Position the crown molding so that the lower surface (Ⓐ in Fig. 16) contacts the fence as indicated in Fig. 20.

(2) Setting to cut crown moldings at positions ② and ③ in Fig. 17 (See Fig. 19, tilt the head to the left.):

- ① Turn the turn table to the left and set the miter angle as follows:
 - For 45° type crown moldings: 35.3° (● mark)
 - For 38° type crown moldings: 31.6° (▲ mark)
- ② Tilt the head to the left and set the bevel angle as follows:
 - For 45° type crown moldings: 30° (● mark)
 - For 38° type crown moldings: 33.9° (▲ mark)
- ③ Position the crown molding so that the lower surface (Ⓑ in Fig. 16) contacts the fence as indicated in Fig. 21.

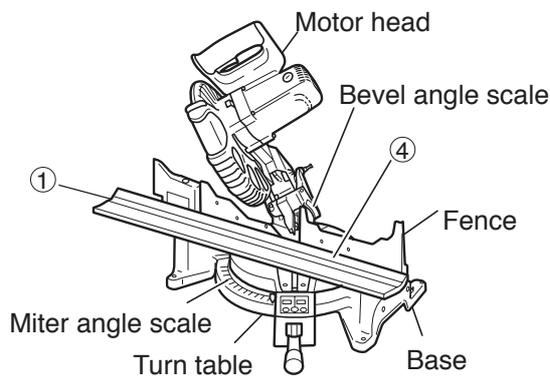


Fig. 18

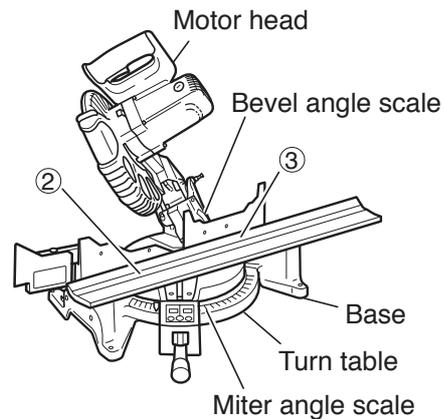


Fig. 19

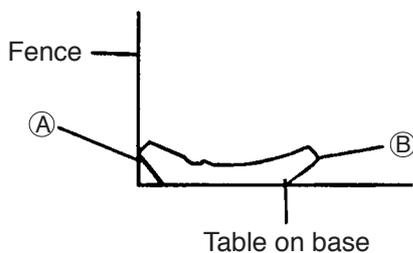


Fig. 20

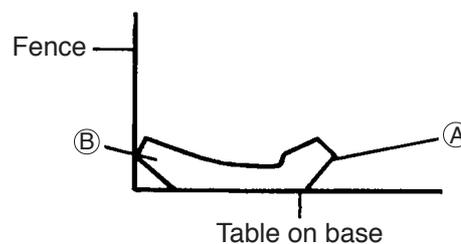


Fig. 21

Cutting method of crown molding without tilting the saw blade

(1) Crown molding stoppers (L) and (R) (optional accessories) allow easier cuts of crown molding without tilting the saw blade. Install them to both sides of the base as shown in Fig. 22. After inserting, tighten the 6 mm knob bolts to secure the crown molding guides.

[Optional accessories used]

- Crown molding vise ass'y (including crown molding stopper (L))
- Crown molding stopper (L)
- Crown molding stopper (R)

(2) The crown molding vise ass'y (optional accessory) can be mounted on either the left fence (fence (B)) or the right fence (fence (A)). It can unite with the slope of the crown molding and vise can be pressed down. Then turn the upper knob, as necessary, to securely attach the crown molding in position. To raise or lower the vise assembly, first loosen the 6 mm knob bolt.

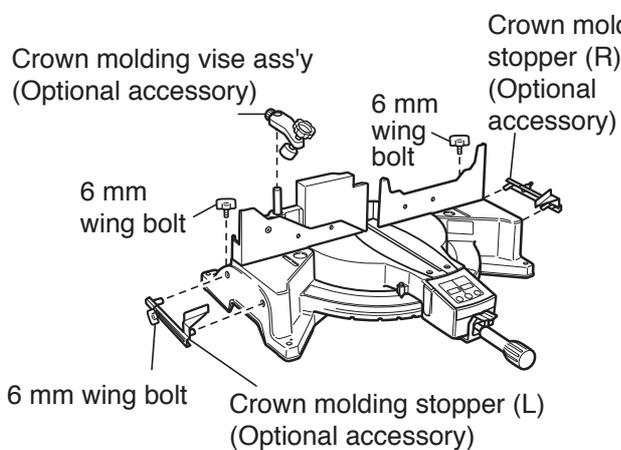


Fig. 22

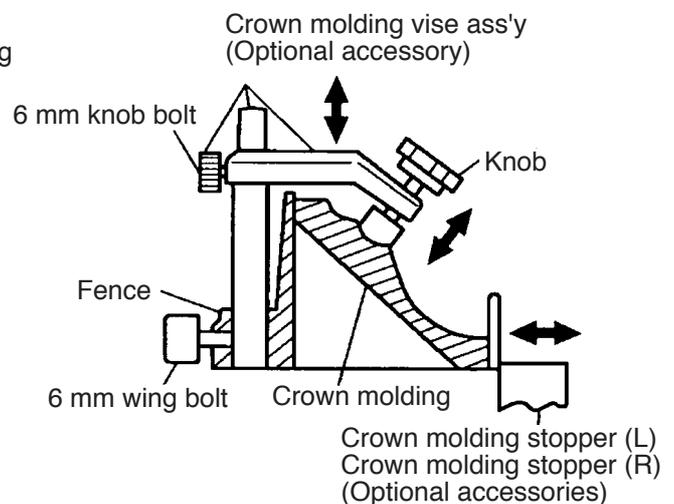


Fig. 23

After adjusting the height, firmly tighten the 6 mm wing bolt; then turn the upper knob, as necessary, to securely attach the crown molding in position. (See Fig. 23.)

⚠ WARNING: Always firmly clamp or vise to secure the crown molding to the fence; otherwise the crown molding might be thrust from the table and cause bodily harm. Do not perform bevel cutting. The main body or saw blade may contact the sub fence, resulting in an injury.

⚠ CAUTION: Always confirm that the motor head does not contact the crown molding vise ass'y when it is lowered for cutting. If there is any danger that it may do so, loosen the 6 mm knob bolt and move the crown molding vise ass'y to a position where it will not contact the saw blade.

Position crown molding with its WALL CONTACT EDGE against the guide fence and its CEILING CONTACT EDGE against crown molding stoppers as shown in Fig. 23. Adjust the crown molding stoppers according to the size of the crown molding. Tighten the 6 mm wing bolt to secure the crown molding stoppers.

8-5. Digital Display Panel (Models C 12LCH/C 12LC)

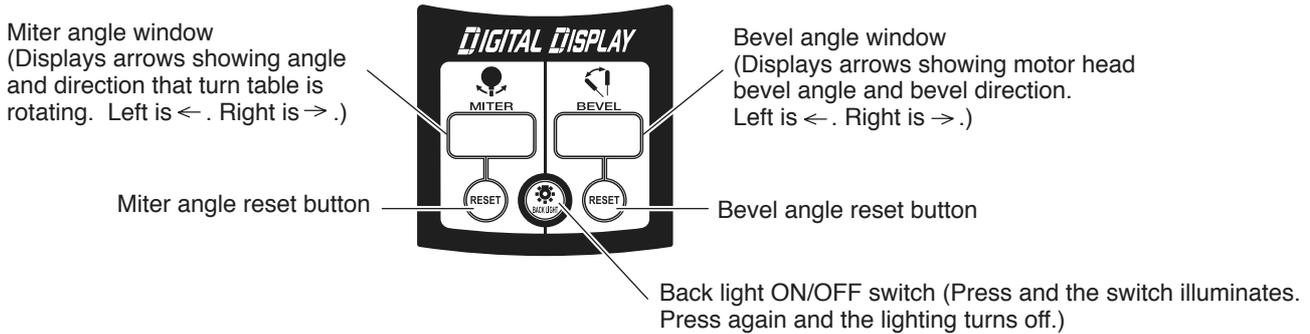


Fig. 24

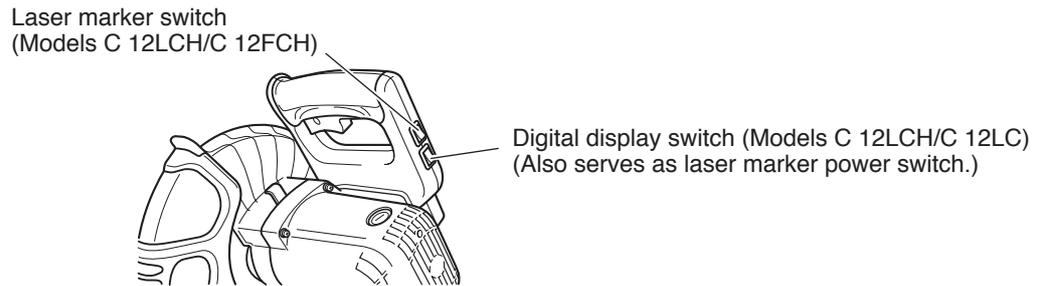


Fig. 25

- (1) Turning on the digital display switch shows 0° for both miter and bevel angle, regardless of main unit angle.
- (2) Align the main unit angle with the tilt angle (0°) and miter angle (0°) and hold down their reset buttons for at least 0.2 second.
- (3) Turning on the laser marker switch while the digital display switch is on, lights up the laser marker. (On the Model C 12FCH, only the laser marker switch.)

⚠ CAUTION: When operating the digital panel, have the motor head section at the top limit position and the blade stopped.

NOTE:

- Instruct the customers to align the main unit to the miter angle 0° and the bevel angle 0° and hold down their reset buttons for at least 0.2 second before starting to cut. If customers press the digital display switch to ON without aligning the main unit to 0° , then the figures appearing on the digital display and the main unit angle will not match.

- The laser marker will not light up if the digital display switch is turned off. (only Model C 12LCH)
- Do not use the main unit near equipment that generates electrical noise such as generators. Electrical noise might cause faulty readings or operation on the digital display.
- If there is a malfunction on digital display because of power supply noise, turn the digital display switch OFF and perform the procedures (1) and (2) in 8-5 to reset it.
- The digital display may show a deviated value if the flush surfaces for the bevel angle adjustment bolt are worn (plates (A) and (B) in Fig. 15-2). Instruct the customers to adjust the angle according to section 9-1 in this case.

⚠ CAUTION:

If the figure shown on the miter angle digital display is different from the positive stop angle (for example, $45.0^\circ \rightarrow 45.5^\circ$, $31.6^\circ \rightarrow 32.0^\circ$) then the positive stop has probably deviated slightly from its correct position. If this happens, do as follows.

- (1) Move the turn table left and right with the side handle loosened, and set the turn table to the correct position.
- (2) If the figures on the display and positive stop still do not match, then return the turn table to the 0° position. Next move the turn table left and right with the side handle loosened as shown in Fig. 26. After setting it to the correct position 0° , press the reset button again.

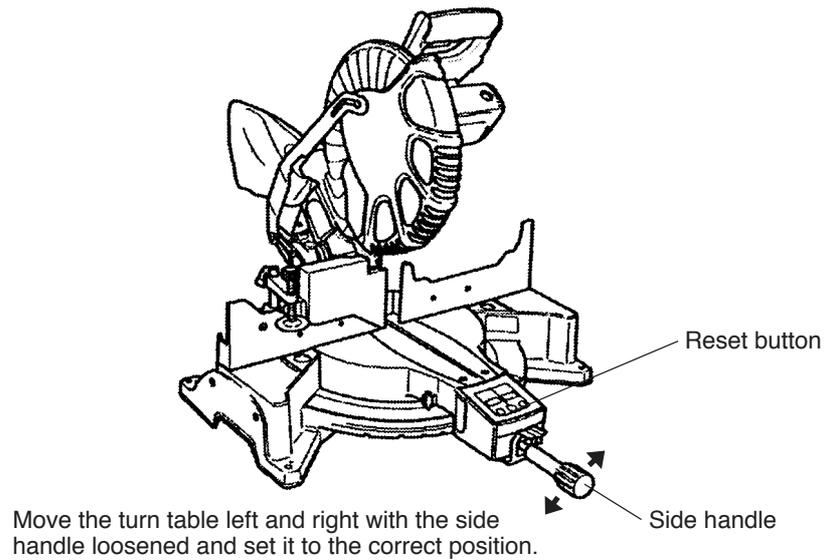


Fig. 26

9. ADJUSTMENT OF COMPONENTS

9-1. Bevel Angle Adjustment

Before the power tool is shipped from the factory, it is adjusted for 0°, left 45° bevel cutting angle with the 8 mm nylock bolt. When changing the adjustment, change the height of the 8 mm nylock bolt by turning them. (The maximum bevel cutting angle is 48°).

NOTE: Do not adjust the 8 mm nylock bolt with plates (A) and (B) (Fig. 15-2) pulled.

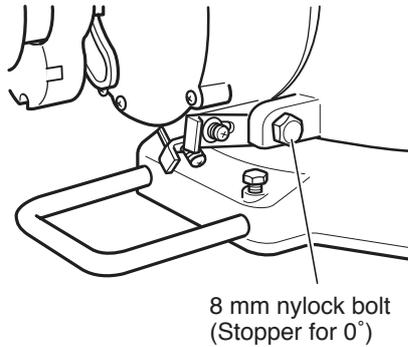


Fig. 27-a

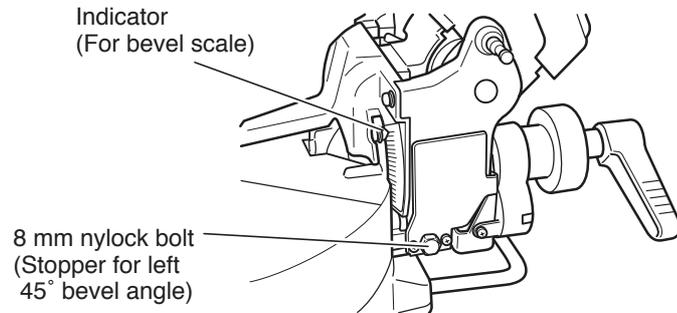


Fig. 27-b

10. PACKING

(1) Preparation before packing

Turn the turn table 45° clockwise.

(2) Mounting packing (C)

Place packing (C) under the gear case and swing the motor section. Pressing on packing (C), hook the stopper pin on the gear case.

(3) Mounting packing (E)

Fold packing (E) in two at the center and insert it between the gear case and protective cover (A).

(4) Mounting packings (B) and (A)

Place the base packing in the carton box and place the power tool on it. Fit packing (B) on the housing. Place packing (A) at the left of the base.

(5) Mounting upper packing

Place the upper packing on packings (A) and (B). Close the carton box.

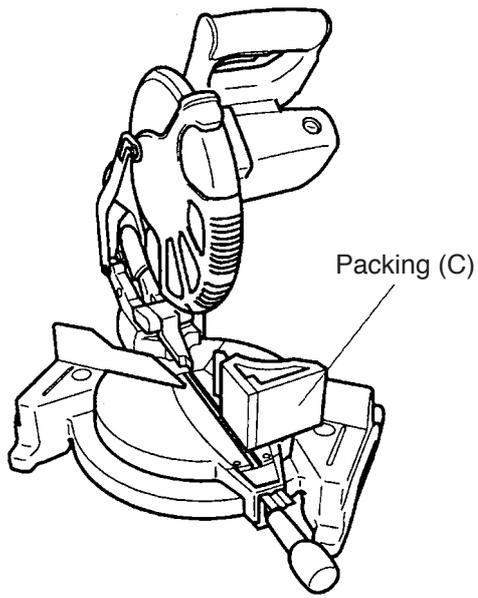


Fig. 28

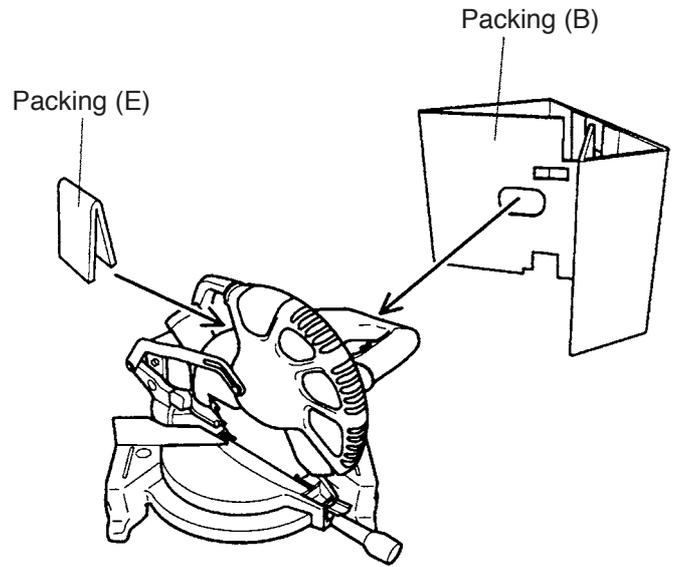


Fig. 29

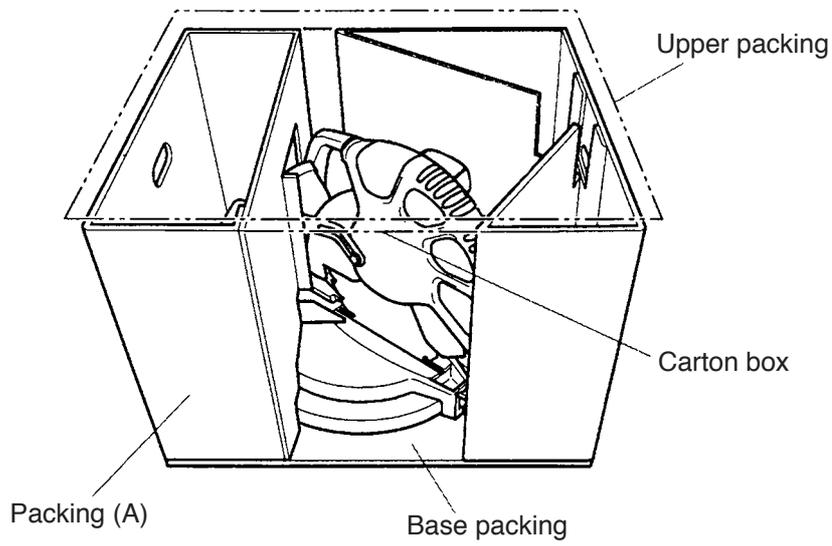


Fig. 30

11. PRECAUTIONS IN DISASSEMBLY AND REASSEMBLY

11-1. Precautions in Disassembly and Reassembly of the Laser Marker (Models C 12LCH/C 12FCH)

Do not stare into the laser emitting aperture during disassembly and reassembly of the laser marker. Do not observe beam directly with an optical instrument. Use of controls or adjustments or performance of procedures other than those specified in this TECHNICAL DATA AND SERVICE MANUAL and the Instruction Manual may result in hazardous radiation exposure.

11-2. Disassembly

Special attention in disassembly should be given to the following items. The circled numbers in the figures and the **[Bold]** numbers in the descriptions below correspond to the item numbers in the parts list and exploded assembly diagram of the Model C 12LCH. For the Models C 12LC and C 12FCH, refer to the parts list separately.

- Be sure to first disconnect the power plug when performing disassembly or replacement of the saw blade.

A. Turn table and base

Tools required:

- Phillips screwdriver
- Flat-blade screwdriver
- Box wrench 13 mm
- Box wrench 19 mm
- Wrench 10 mm
- Hex. bar wrench 4 mm
- Hex. bar wrench 6 mm
- Pliers
- Nipper

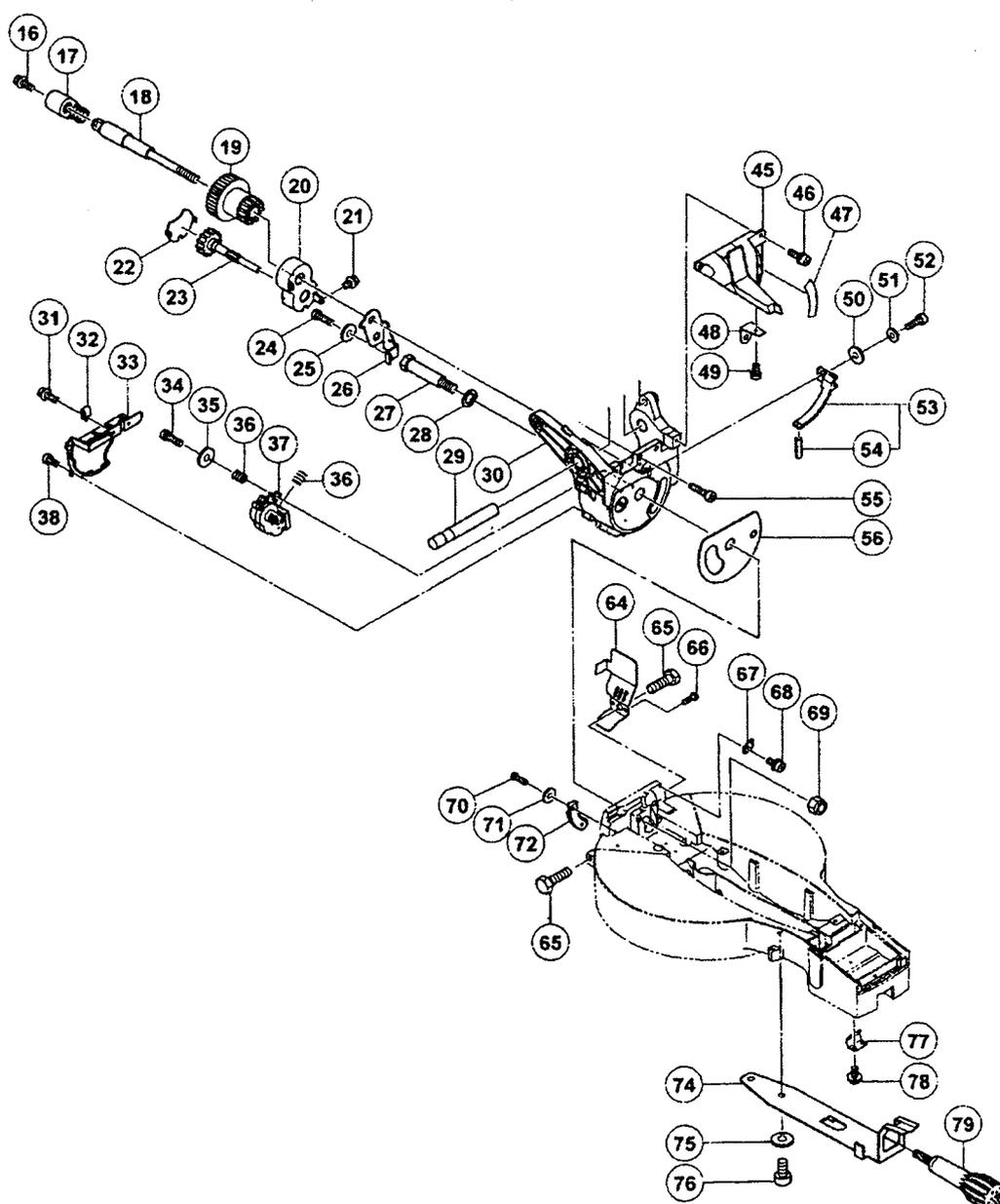


Fig. 31

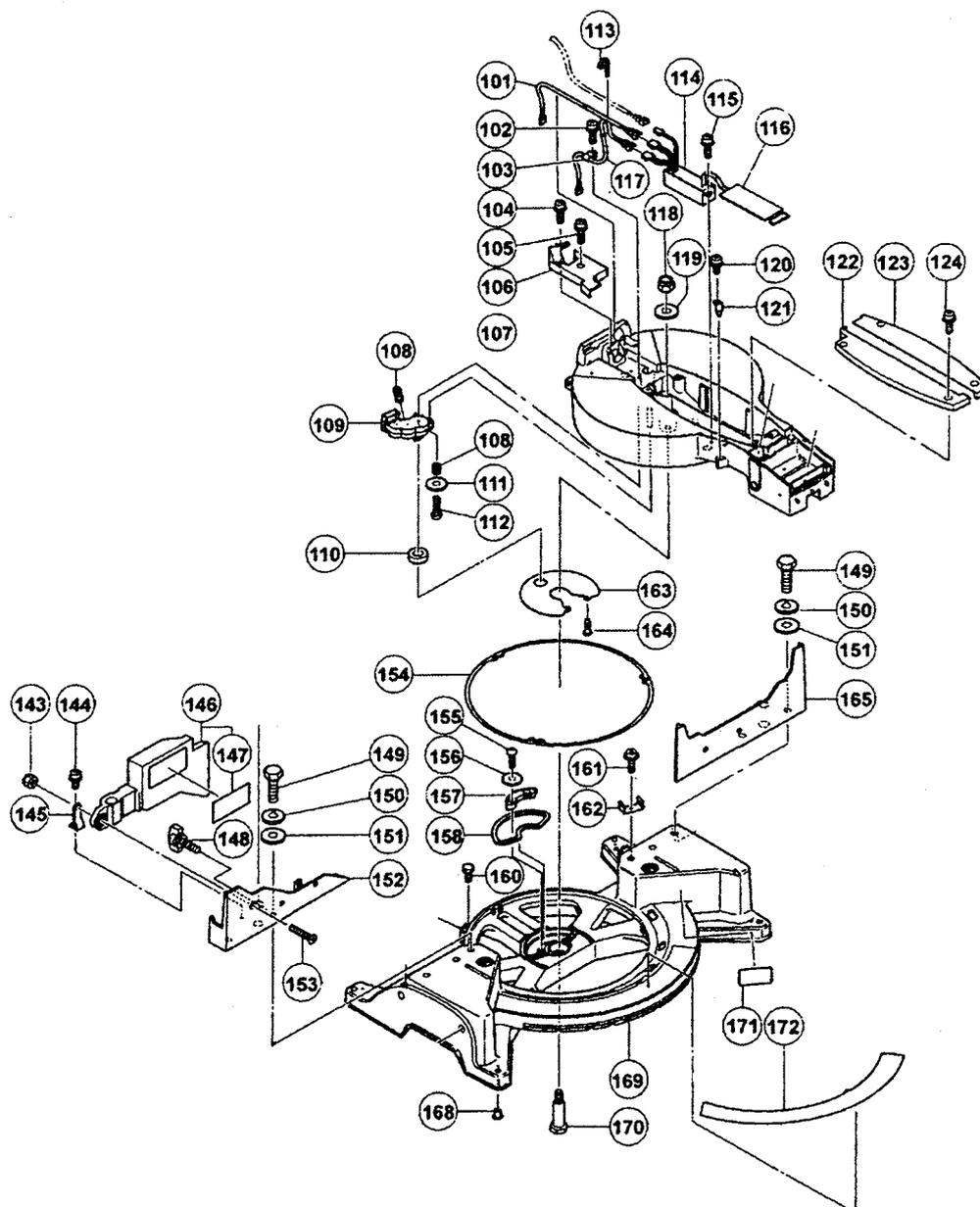


Fig. 32

1. Remove the Machine Screw (W/Washers) M4 x 10 (Black) [68] and Indicator (B) [67]. Remove the two Machine Screws (W/Washers) M5 x 16 [46] and remove the Dust Guide Ass'y [45].
2. Remove the Nylon Nut M6 [143] with a wrench 10 mm and remove the Flat Hd. Screw M6 x 30 [153] and the Sub Fence Ass'y [146]. Then, remove the Machine Screw (W/Washers) M4 x 10 (Black) [144] and Plate (C) [145].
3. Remove the four Bolts M8 x 35 [149], Spring Washers M8 [150] and Bolt Washers M8 [151] then remove Fence (A) [165] and Fence (B) [152].
4. Loosen the Clamp Lever [17] and remove the Machine Screw (W/Washers) M6 x 20 (Black) [16]. Turn the Bolt (Left Hand) M10 [18], Knob (A) [19] and remove it from the Hinge [30A].
5. Remove Gear Box (C) Cover [22] to remove the Pinion [23]. Then remove the Hex. Socket Hd. Bolt M5 x 16 [24] and the Spring Washer M5 [25] to remove Gear Box (C) [20] and Hinge Plate [26].
6. Remove the two Nylock Bolts M8 x 25 [65] and Machine Screws (W/Washers) M4 x 12 (Black) [66]. Then Cover (A) [64] can be removed.

7. Remove the Machine Screw (W/Washers) M4 x 16 [31] and the Nylon Clip [32]. Then remove the four Machine Screws M4 x 10 [38] to remove the Hinge Cover [33]. Press the Encoder [37] turning clockwise and secure it with the Machine Screw M5 x 20 [34].

NOTE: When reassembling the Hinge [30A] to the Turn Table [107], loosen the Machine Screw M5 x 20 [34] securing the Encoder [37] (about one turn) and move the Encoder [37] to engage with Gear (B) [72].

8. Remove Table Insert (A) [122] and Table Insert (B) [123] from the Turn Table [107] by removing each fixing screw.

9. Remove the Machine Screw (W/Washers) M4 x 10 (Black) [104] and the Machine Screw (W/Washers) M4 x 16 [105] to remove the Cord Cover [106]. Disconnect the connector from the Controller [114] and cut off the Cable Tie [113]. Then Cord (A) Length 380 mm [101] and Cord (B) [238] can be pulled out to the rear of the Hinge [30A]. The head portion can be removed from the Turn Table [107] with the Hinge [30A] by removing Shaft (D) [27].

10. Disconnect the connector of Cord (A) Length 380 mm [101] from the Encoder [37]. Remove the Machine Screw M5 x 20 [34] and Spring (C) [36] with a flat-blade screwdriver. Then Encoder [37] can be removed from the Hinge [30A].

11. Remove the Hex. Socket Hd. Bolt M5 x 16 [52], Spring Washer M5 [51] and Bolt Washer M5 [50]. Pull out Gear (C) Ass'y [53] using pliers.

12. Remove the two Hex. Socket Hd. Bolts M8 x 16 [76] and two Spring Washers M8 [75]. Remove the Side Handle [79] to remove the Spring Plate [74A] from the Turn Table [107].

NOTE: When reassembling the removed Spring Plate [74A], adjust the squareness of the TCT Saw Blade 305 mm-D25.4 Hole-NT32 [193] to Fence (A) [165] and Fence (B) [152].

13. Press the Encoder [109] turning clockwise from the rear of the Turn Table [107] and secure it with the Machine Screw M5 x 20 [112].

NOTE: When reassembling the Turn Table [107] to the Base Ass'y [169], loosen the Machine Screw M5 x 20 [112] securing the Encoder [109] (about one turn) and move the Encoder [109] to engage with Gear (A) [157]. Adjust the squareness of the TCT Saw Blade 305 mm-D25.4 Hole-NT32 [193] to Fence (A) [165] and Fence (B) [152].

14. Remove the Nylock Nut M8 [118] and remove the Turn Table [107] from the Base Ass'y [169].

15. Remove the Machine Screw M4 x 8 [164] and the Dust Cover [163].

16. Disconnect the connector of Cord (A) Length 160 mm [117] from the Encoder [109]. Remove the Machine Screw M5 x 20 [112] and Spring (C) [108] using a flat-blade screwdriver. Then the Encoder [109] can be removed from the Turn Table [107].

B. Armature ass'y

Cord, stator ass'y and housing ass'y

Tools required:

- Phillips screwdriver
- Flat-blade screwdriver
- Plastic hammer
- Nippers

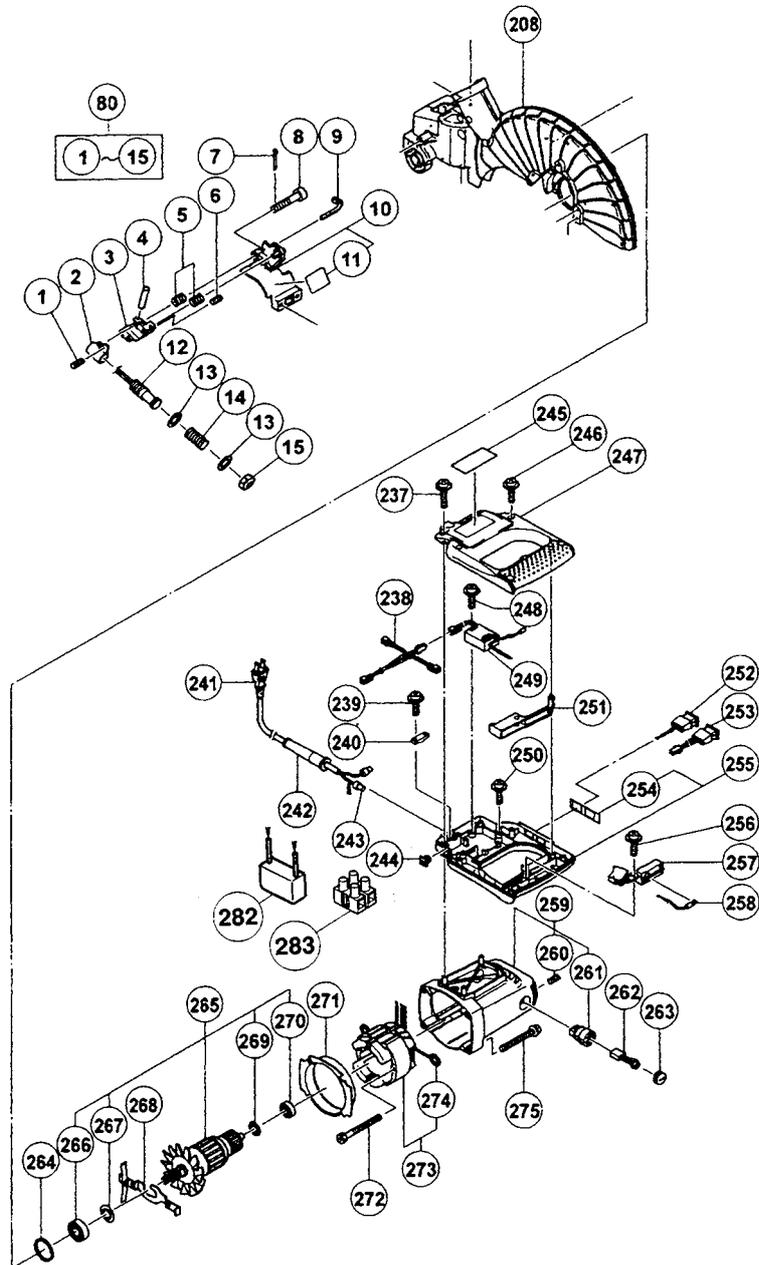


Fig. 33

1. Remove the two Tapping Screws (W/Flange) D4 x 25 (Black) [237] and the four Tapping Screws (W/Flange) D4 x 20 (Black) [246], then remove Switch Handle (C) [247].
2. Remove the three connectors of Cord (B) [238] (Model C 12LCH only) (Model C 12LC: one connector of Cord (C) Model C 12FCH: one connector of internal wire of Laser Module (A) Ass'y [12A]) and disconnect the two Connectors 50092 [243] crimping the internal wire.
3. Remove the Tapping Screw (W/Flange) D4 x 16 [256] and disconnect the three internal wires. Then the Switch (1P Screw Type) [257] can be removed.
4. Remove the two Tapping Screws (W/Flange) D4 x 20 (Black) [250]. Then Switch Handle (D) Ass'y [255] can be removed from the Housing Ass'y [259].
5. Pull out the internal wire of the Switching Power Supply [249] from Switch (A) (1P Type) [252]. Then Switch (A) (1P Type) [252] can be removed.
6. Remove the Tapping Screw (W/Flange) D4 x 16 [248]. Then the Switching Power Supply [249] can be removed.
7. Disassembly of the armature ass'y
 - (1) Perform the above steps 1 to 4 and remove the Brush Cap [263] and the Carbon Brush (1 Pair) [262].
 - (2) Remove the four Machine Screws (W/Washers) M5 x 40 (Black) [275]. Then the Lock Lever [268] and Housing Ass'y [259] can be removed from the Gear Case [208].
 - (3) Gently tap the surface of the Housing Ass'y [259] where the Gear Case [208] was mounted to remove the Armature Ass'y 110V-120 V [265].
8. Disassembly of the stator ass'y
 - (1) Remove the Housing Ass'y [259] from the Gear Case [208] according to the above step 7.
 - (2) Remove the two Hex. Hd. Tapping Screws D5 x 55 [272] to remove the Brush Terminal [274] from the Brush Holder [261]. Gently tap the surface of the Housing Ass'y [259] where the Gear Case [208] was mounted with a plastic hammer to remove the Stator Ass'y 120 V [273].

NOTE: After reassembling the Housing Ass'y [259] to the Gear Case [208], gently tap the rear of the Housing Ass'y [259] with a plastic hammer.

C. Safety cover and link

Spindle and spring

Tools required:

- Phillips screwdriver
- Hex. bar wrench 5 mm
- Hex. bar wrench 4 mm
- Hex. bar wrench 2.5 mm
- Box wrench 17 mm (standard accessory)
- Plastic hammer
- Long-nose pliers

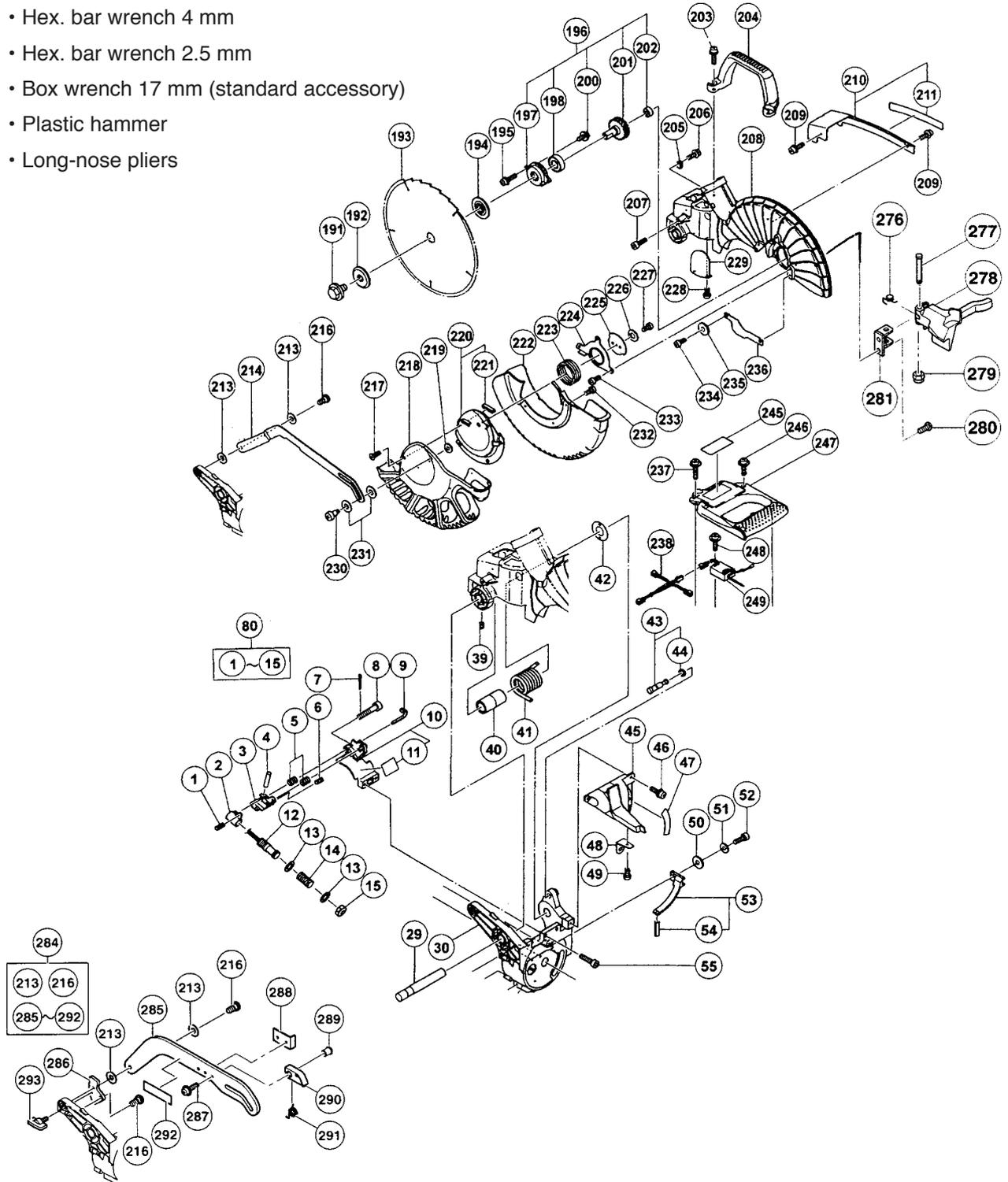


Fig. 34

1. Remove the Machine Screw M5 x 10 (Black) [234] at the notched side of the Spindle Cover [236] and slide the Spindle Cover [236] to remove the TCT Saw Blade 305 mm-D25.4 Hole-NT32 [193] in the next step.
2. Remove Bolt (A) M10 [191] using the box wrench 17 mm (standard accessory). Then Washer (B) [192], TCT Saw Blade 305 mm-D25.4 Hole-NT32 [193] and the other Washer (A) [194] can be removed in this order.
3. Remove Special Screw (C) M5 [230] and Special Screw M6 [216], then remove the Link [214].
4. Remove the three Machine Screws M5 x 10 (Black) [233] and remove Cover Plate (B) Ass'y [220] from the Gear Case [208].
5. Remove the two Machine Screws (W/Washers) M6 x 20 (Black) [195]. Slightly tap the Gear Case [208] with a plastic hammer to remove the Spindle Ass'y [196].
6. Perform the steps 1 to 6 in "E. Laser marker" on the next page.
7. Remove the Hex. Socket Hd. Bolt M6 x 16 [207]. Note that the Gear Case [208] moves upward when the Hex. Socket Hd. Bolt M6 x 16 [207] is removed because the Hex. Socket Hd. Bolt M6 x 16 [207] acts as an upper limit stopper of the Gear Case [208].
8. Remove the Seal Lock Hex. Socket Set Screw M6 x 10 [39]. Holding the Gear Case [208], slightly tap Shaft (C) [29] to remove it. Then Spring (A) [41] can be removed.
9. Remove the two Machine Screws M5 x 10 [280]. Then Lever Holder (A) [281] can be removed from the Gear Case [208] (for Europe).
10. Remove the Nylon Nut M5 [279], Lever Shaft [277] and Lever Spring (A) [276], then Lock Lever (D) [278] can be removed (for Europe).

D. Vise ass'y

Tool required:

- Phillips screwdriver

1. Remove the Wing Bolt M6 x 15 [137] to remove the Vise Shaft [142].
2. Remove the Machine Screw M4 x 10 [141] to remove the Vise Plate [140].
3. Remove the Knob Bolt [136] from the Screw Holder [138].

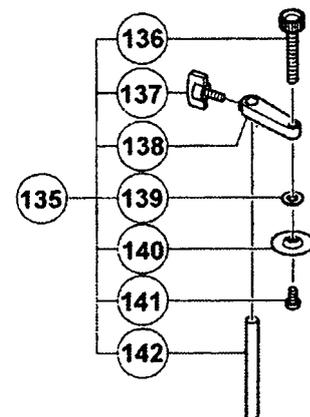


Fig. 35

E. Laser marker

Tools required:

- Phillips screwdriver
- Hex. bar wrench 5 mm
- Hex. bar wrench 4 mm
- Hex. bar wrench 2.5 mm
- Long-nose pliers

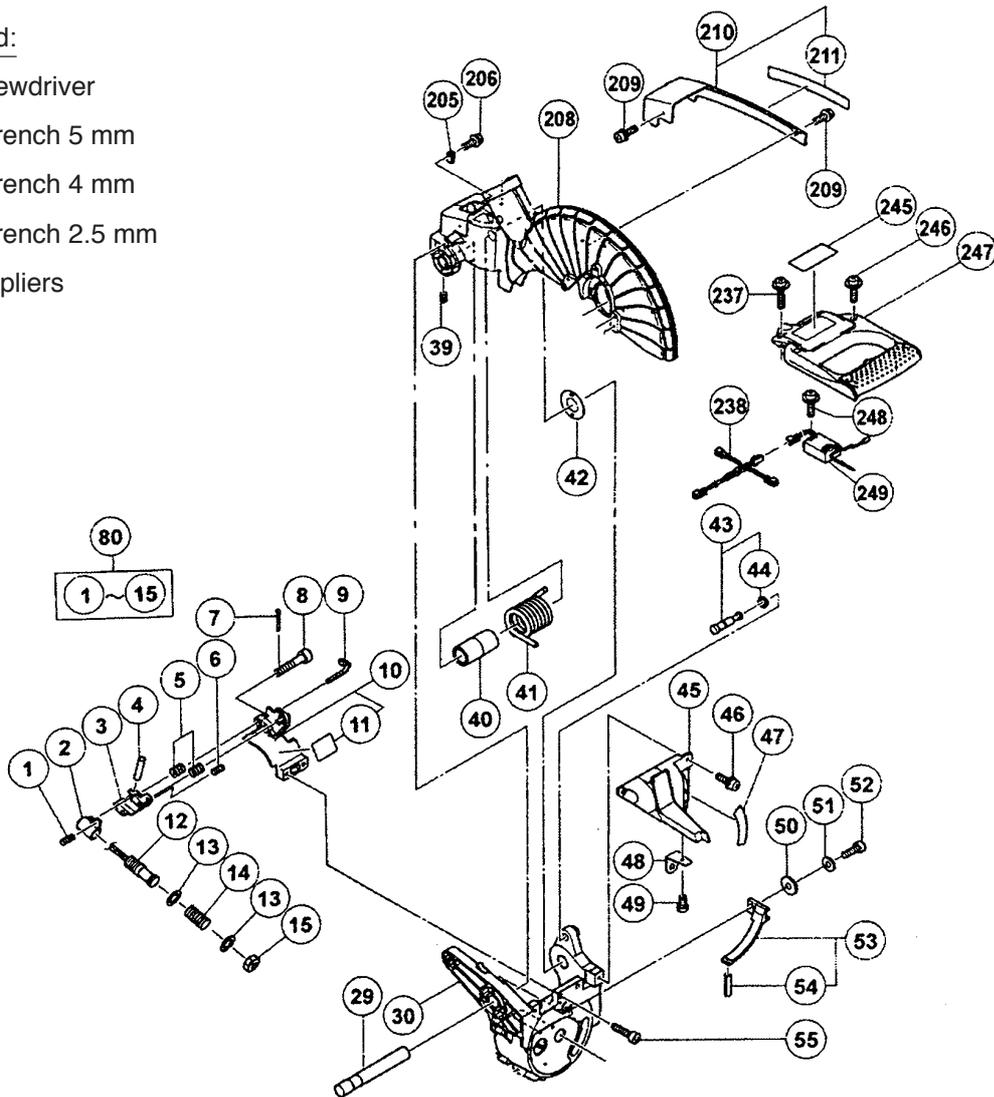


Fig. 36

1. Remove the two Tapping Screws (W/Flange) D4 x 25 (Black) [237] and the four Tapping Screws (W/Flange) D4 x 20 (Black) [246], then remove Switch Handle (C) [247]. Remove the wire of the Laser Module (A) Ass'y [12A] from Cord (B) [238]. (Only the Model C 12LCH)
2. Remove the two Machine Screws (W/Washers) M4 x 16 [209] and the Gear Case Cover Ass'y [210].
3. Remove the Machine Screw (W/Washers) M4 x 12 (Black) [206] and the Nylon Clip [205].
4. Remove the Machine Screw (W/Washers) M4 x 10 (Black) [68] to remove Indicator (B) [67].
5. Remove the two Machine Screws (W/Washers) M5 x 16 [46] and remove the Dust Guide Ass'y [45] from the Hinge [30A].
6. Remove the two Hex. Socket Hd. Bolts M6 x 20 [55] and remove the Laser Holder Ass'y [80] from the Hinge [30A].
7. Remove the Split Pin D2 x 12 [7] using a pair of long-nose pliers. Loosen the Special Bolt M5 [8] and remove the Laser Base Ass'y [10] and Spring (C) [5].

F. Digital display (Models C 12LCH/C 12LC)

Tool required:

- Phillips screwdriver

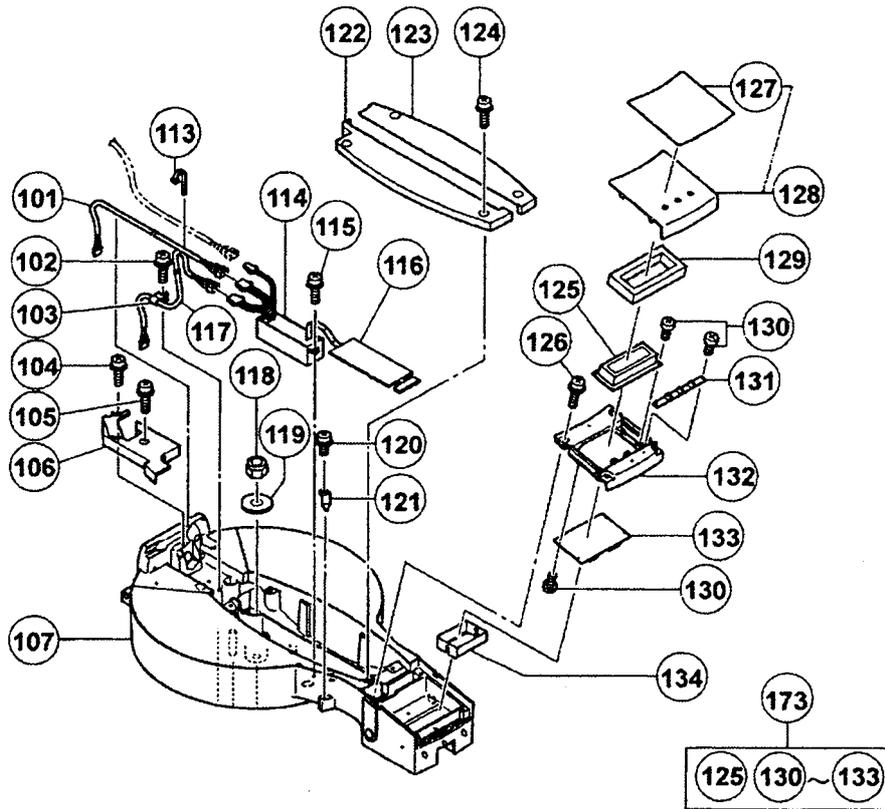


Fig. 37

1. Remove the Indication Panel Ass'y [128] and Packing (D) [129] and remove the four Machine Screws (W/Washers) M4 x 16 [126].
2. Remove the two Machine Screws (W/Washers) M5 x 16 [124] securing Table Insert (A) [122] and remove Table Insert (A) [122].
3. Disconnect the three connectors and the Machine Screw (W/Washers) M4 x 16 [115] from the Controller [114]. Then the Controller [114] and Monitor Ass'y [173] can be removed from the Turn Table [107].

NOTE: Be careful not to disconnect the flat cable between the Controller [114] and the Monitor Ass'y [173] when removing from the Turn Table [107].

4. Peel off the silicone from the flat cable between the Controller [114] and the Monitor Ass'y [173] and pull out the flat cable from the Monitor Ass'y [173]. Then the Controller [114] can be removed. At reassembly, apply a light coat of silicone (Maker: ShinEtsu, Name: RTV rubber, Model: KE348W) to the connecting portion between the flat cable and the Monitor Ass'y [173].

11-3. Reassembly

Reassembly can be accomplished by following the disassembly procedures in reverse. However, special attention should be given to the following items.

- (1) Prior to reassembly, measure the insulation resistance of the armature, stator, switch and other electrical components and confirm that the insulation resistance of each part is more than 5 M Ω .
- (2) When replacing Spring (A) **[41]**, apply 5 grams of Hitachi Motor Grease to the inner circumference of the new Spring (A) **[41]** prior to reassembly.
- (3) When replacing Liner (A) **[154]**, apply Hitachi Motor Grease to the sliding surface of the Base Ass'y **[169]** prior to reassembly.
- (4) When replacing the Return Spring **[223]**, apply 2 grams of Hitachi Motor Grease to the inner circumference of the new Return Spring **[223]** prior to reassembly.
- (5) When replacing Liner (B) **[56]**, apply 5 grams of Hitachi Motor Grease to the sliding surface of the Turn Table **[107]** prior to reassembly.

11-4. Wiring Diagram

Carefully ensure that wiring is accomplished as illustrated below. As incorrect wiring will result in lack of rotation, reverse rotation or other malfunctions, close attention is absolutely necessary.

⚠ WARNING: Be sure to turn off Switch (A) (1P Type) [252] on the side of the switch handle and unplug the power cord plug from the receptacle before replacing the Laser Module (A) Ass'y [12A] and the Switching Power Supply [249]. Do not stare into beam while the laser marker is lighting.

Wiring diagram (C 12LCH) USA/CAN

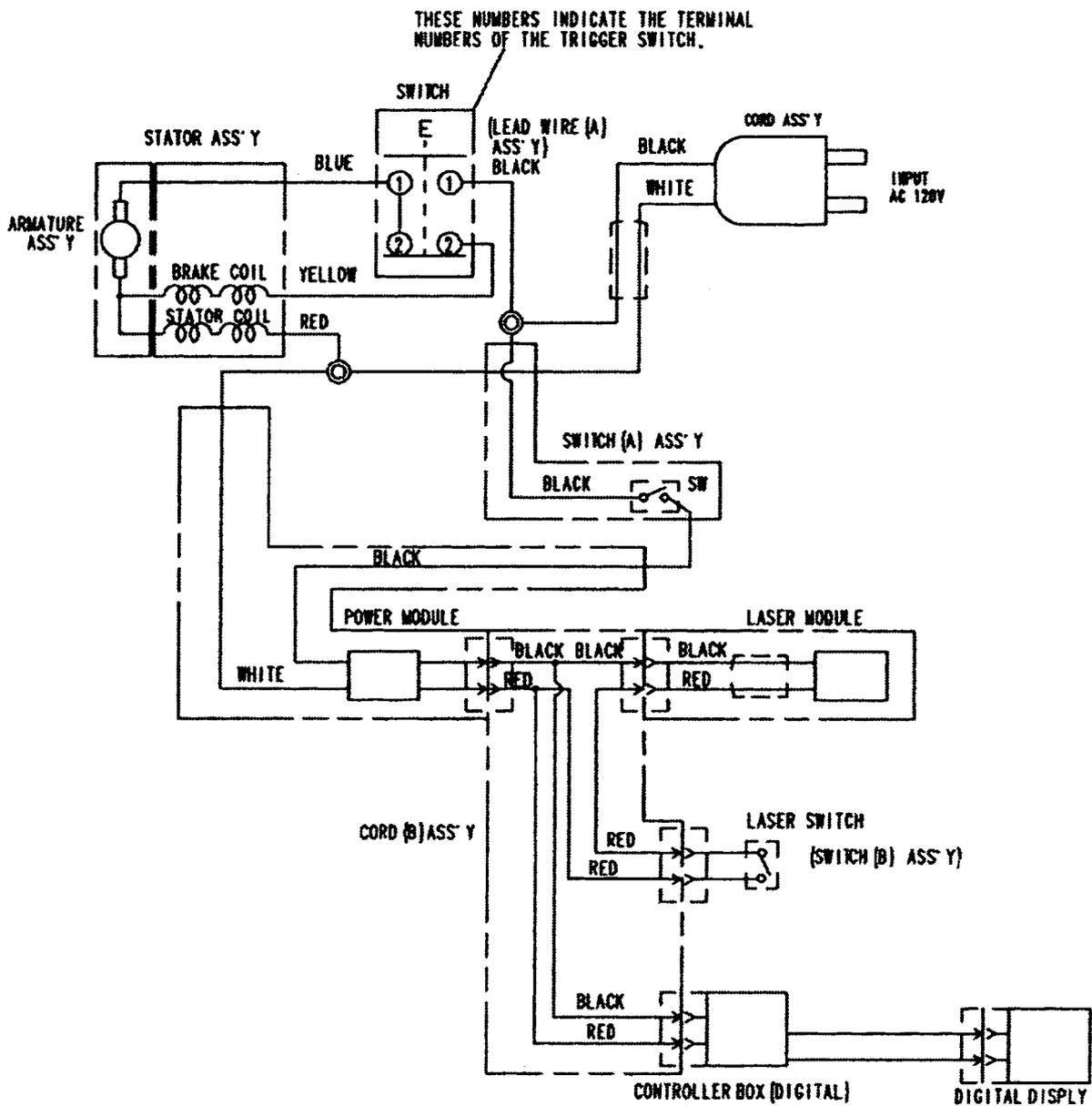


Fig. 38-1

Wiring diagram (C 12LCH)

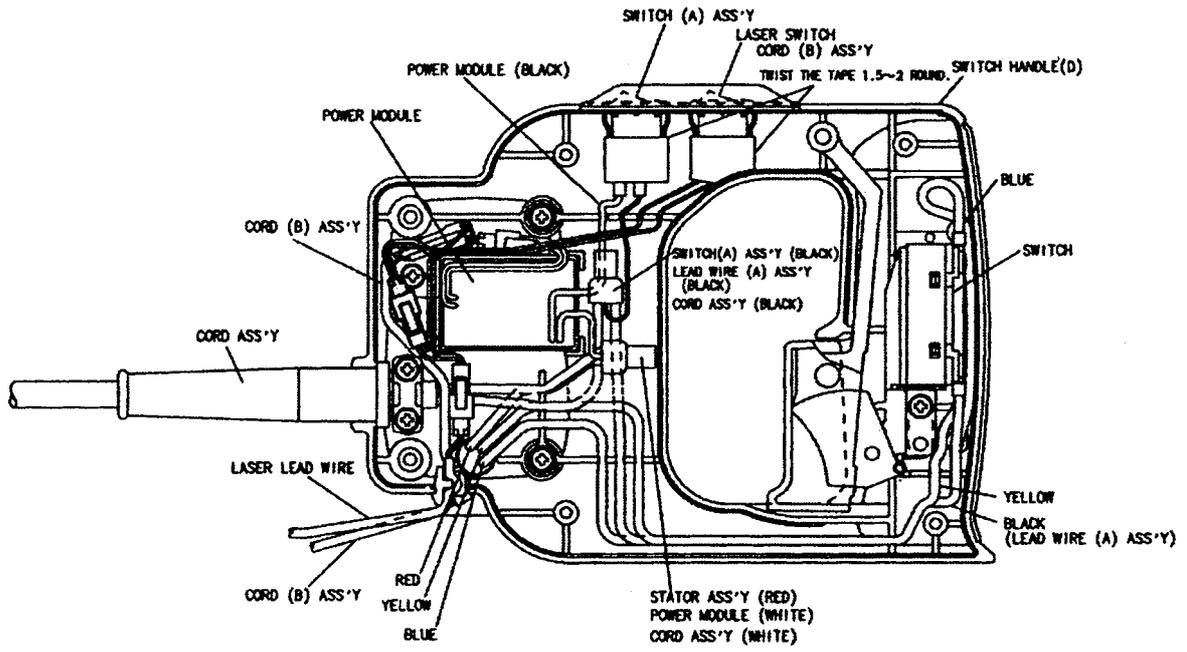


Fig. 38-2

Wiring diagram (C 12LC) USA/CAN

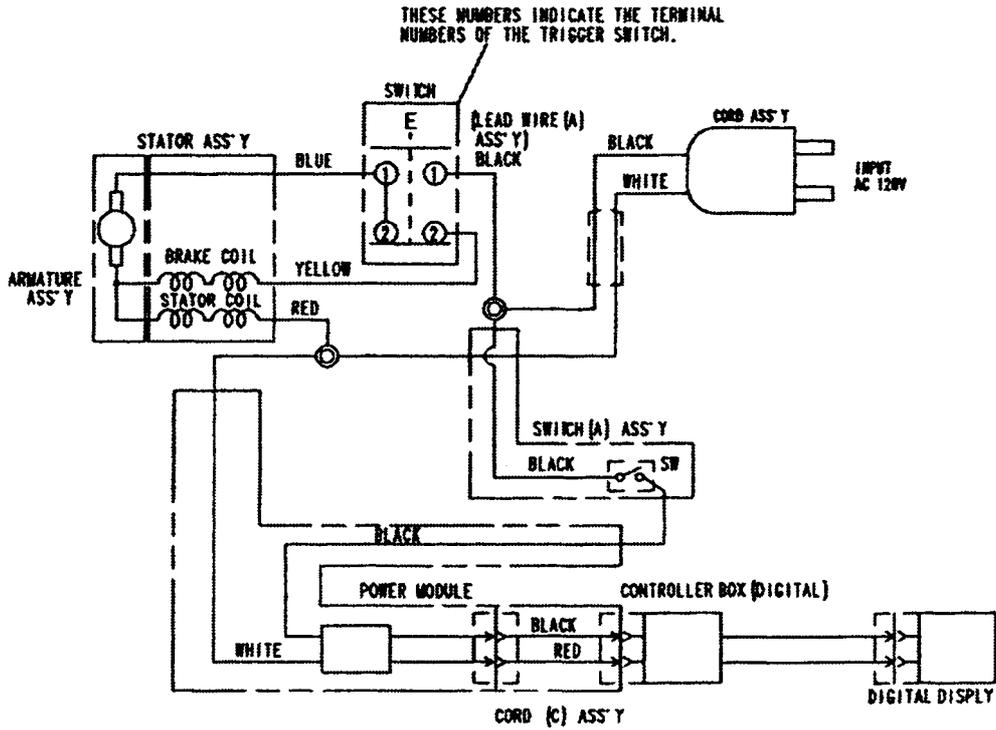


Fig. 40-1

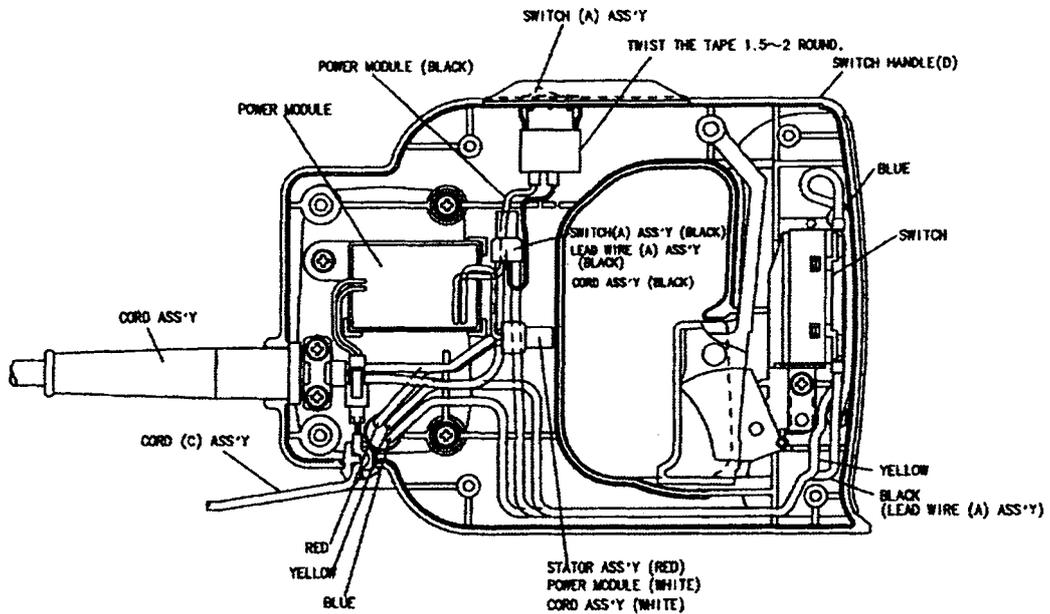


Fig. 40-2

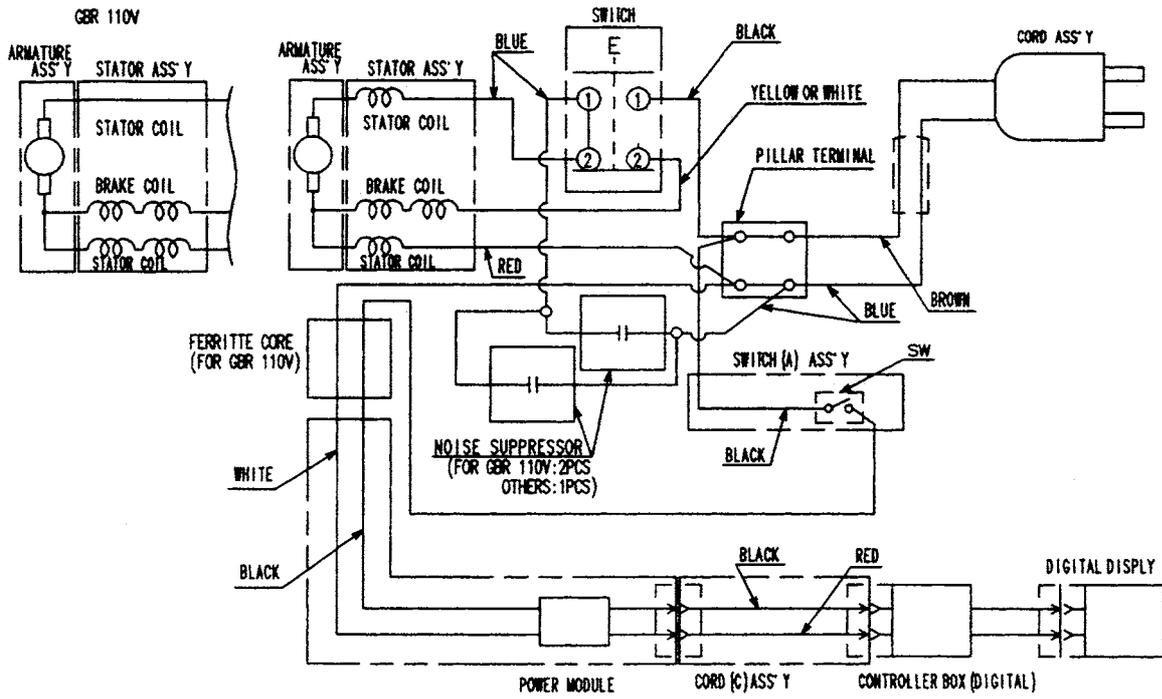


Fig. 41-1

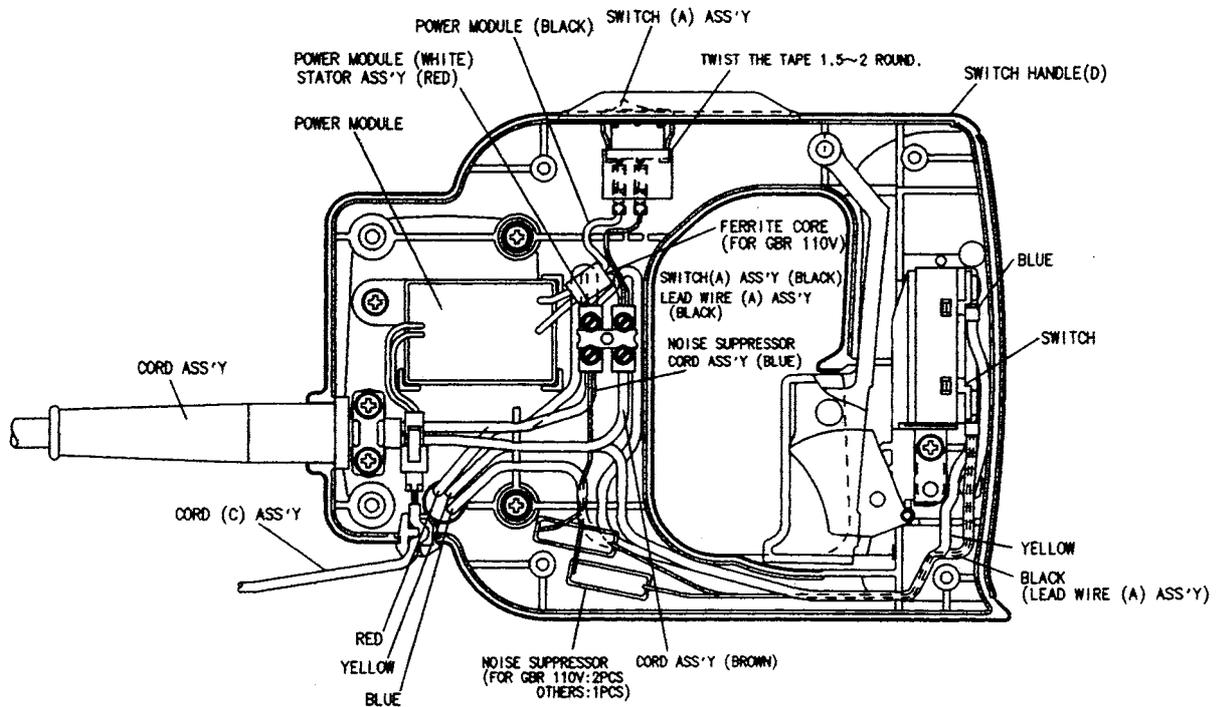


Fig. 41-2

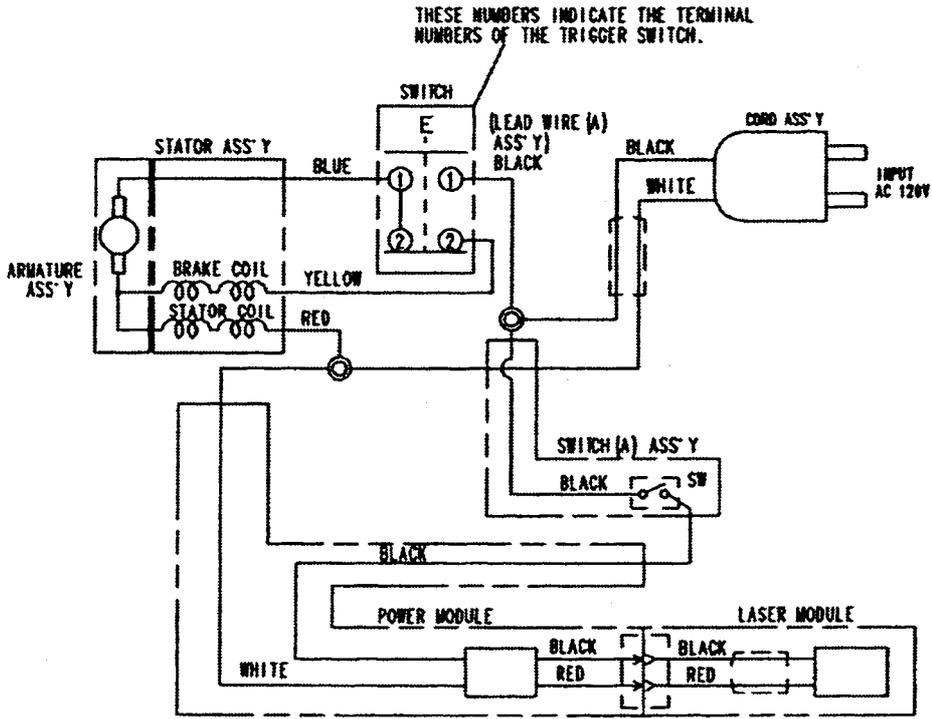


Fig. 42-1

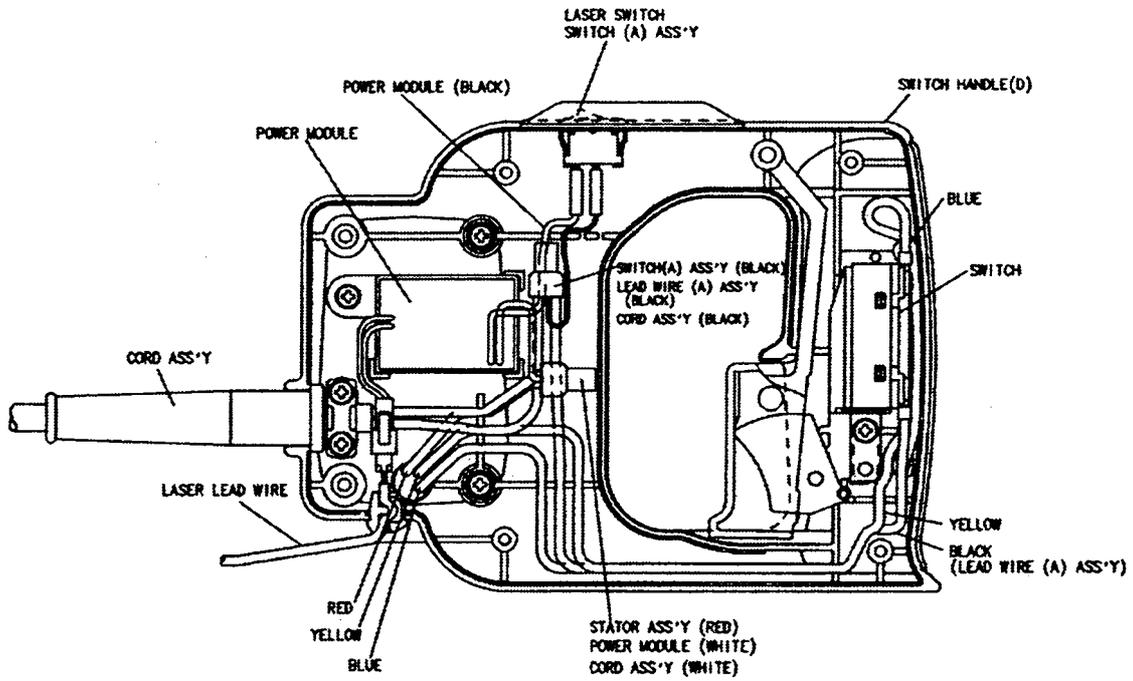


Fig. 42-2

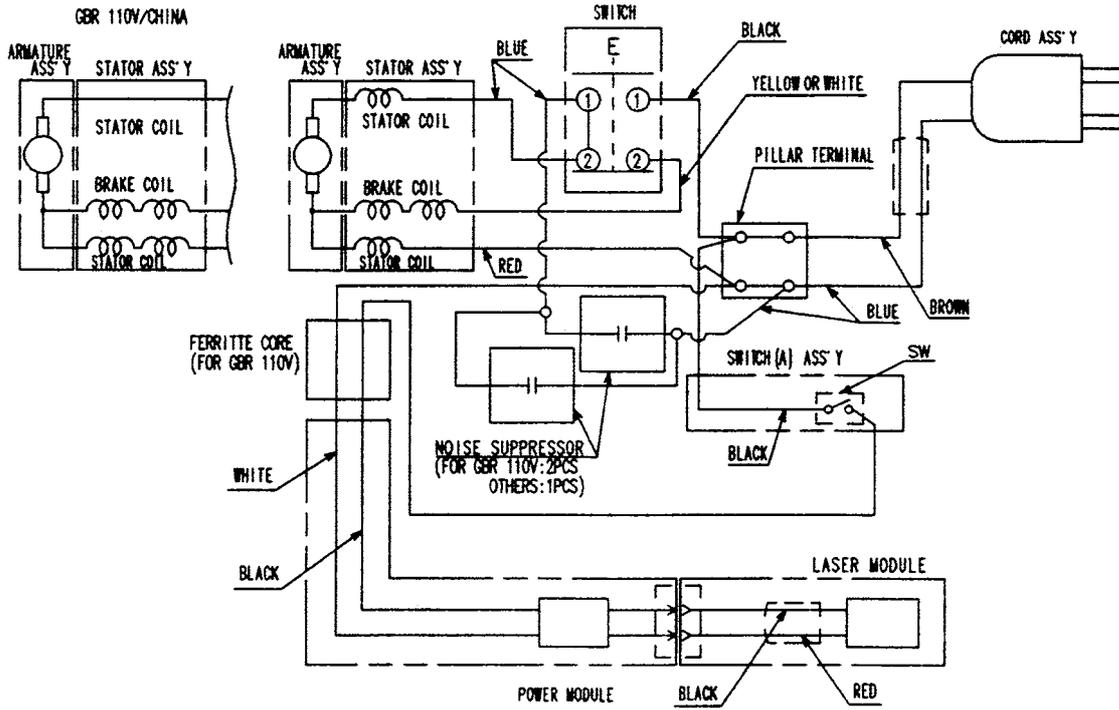


Fig. 43-1

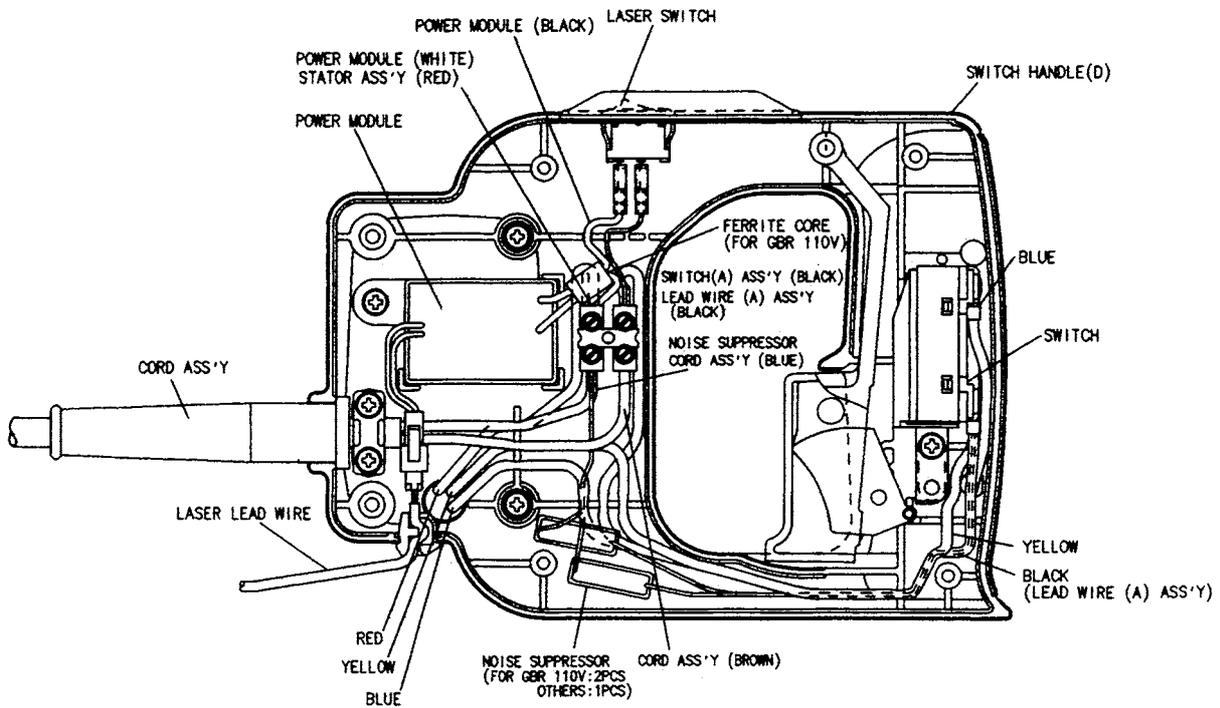


Fig. 43-2

11-5. No-load Current

After no-load operation for 30 minutes, the no-load current values should be as follows.

Voltage, frequency	110 V, 120 V	220 V, 230 V	240 V
No-load current	7.5 A max.	4.0 A max.	3.8 A max.

11-6. Reassembly Requiring Adjustment

(1) Adjustment of squareness between the saw blade (dummy disc) and the fences

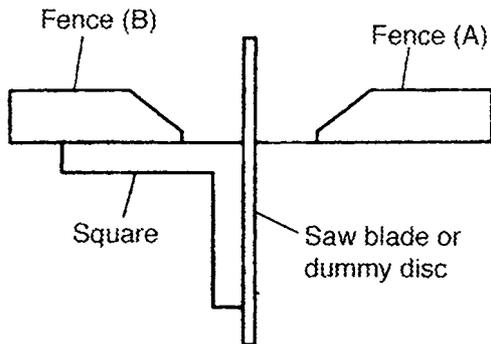


Fig. 44

After disassembly or replacement of the Base Ass'y [169], Turn Table [107], Fence (A) [165], Fence (B) [152] or Hinge [30A], it is necessary to perform necessary adjustment to ensure that the fences are positioned at precise right angles with relation to the saw blade (or dummy disc). Align fence (B) with the saw blade (or dummy disc), and adjust them as necessary to ensure squareness (tolerance: 0.2/100 mm). As shown in Fig. 44, use a square to adjust fence (B) so that it is square with the saw blade. Next, use a straight edge to adjust fence (A) so that it is exactly aligned with fence (B). Finally, use the square to confirm squareness of fence (A) with the saw blade (tolerance: 0.2/100 mm).

(2) Reassembly of the Turn Table [107]

When reassembling the Turn Table [107] and the Base Ass'y [169], tighten the Nylon Nut M8 [118] so that the Turn Table [107] turns smoothly without excessive play or vibration. During reassembly, liberally apply grease (Hitachi Motor Grease) at the point marked "A" in Fig. 45.

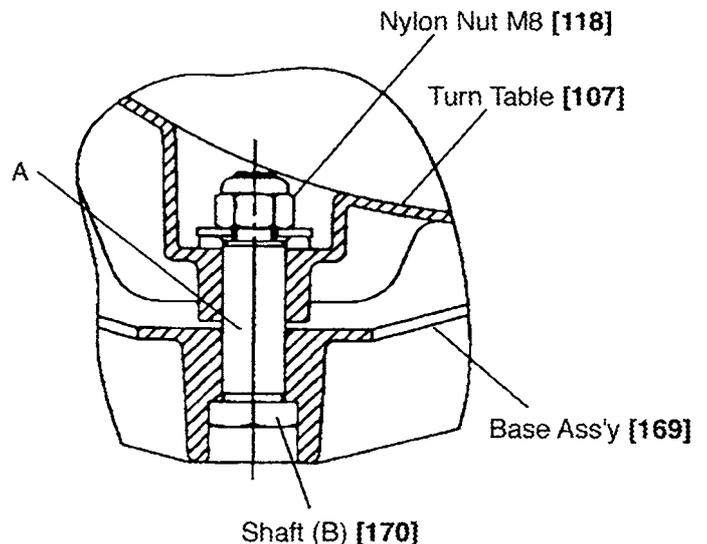


Fig. 45

11-7. Lubrication

Advise the customer to lubricate the machine as indicated below at least once a month. Also, prior to applying lubrication, any sawdust, dirt or other foreign matter should be thoroughly wiped away with a soft cloth.

(1) Swiveling section of the Gear Case [208] and the Hinge [30A]

Coat the swiveling and sliding portion of the Gear Case [208] and the Hinge [30A] with machine oil.

(2) Vise ass'y section

Coat the screw thread portion of the Knob Bolt [136] of the Vise Ass'y [135] with machine oil.

(3) Swiveling section of the Turn Table [107] and the Hinge [30A]

Coat the swiveling and sliding portion of the Turn Table [107] and the Hinge [30A] with machine oil.

11-8. Product Precision

On completion of reassembly, confirm precision tolerances.

(Unit: mm)

Item	Tolerance
Run-out of dummy disc	0.2/280 (0.008"/11")
Squareness between base and fences (A) and (B)	0.2/height of fence (0.008"/height of fence)
Flatness between fence (A) and fence (B)	0.2 (0.008")
Squareness between dummy disc and fences (A) and (B)	0.2/100 (0.008"/4")
Squareness between dummy disc and turn table	0.2/100 (0.008"/4")
Surface alignment of base and turn table (Use the upper surface of the base as a reference.)	$\oplus 0.2 (\oplus 0.008")$ $\ominus 0.1 (\ominus 0.004")$

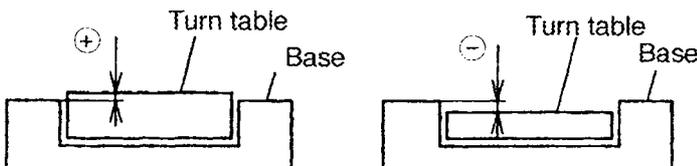


Fig. 46

11-9. Adjustment of Laser Marker Accuracy (Models C 12LCH/C 12FCH)

(1) Construction of laser marker and functions of each component

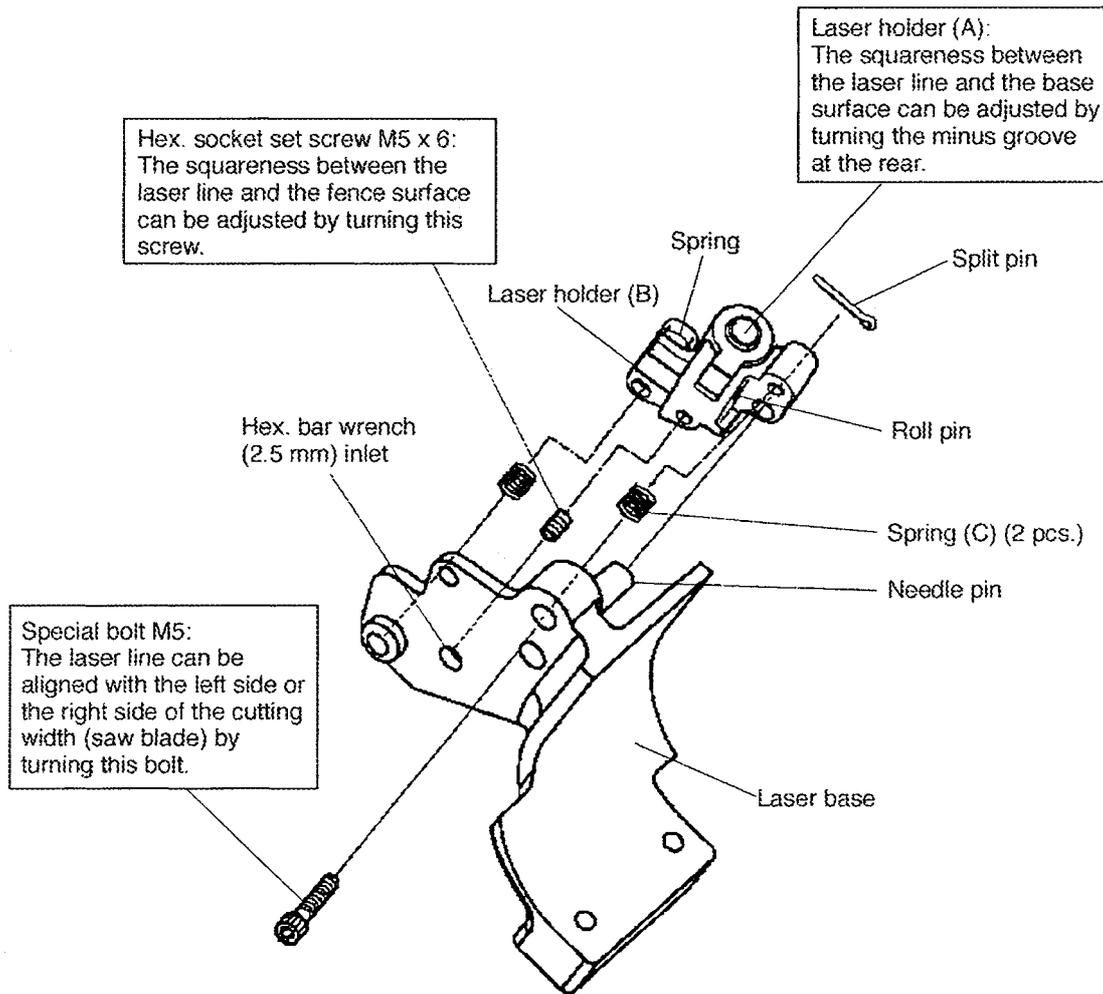


Fig. 47

⚠ CAUTION: Exercise utmost caution in handling a switch trigger for the position adjustment of the laser line, as the power plug is plugged into the receptacle during operation. If the switch trigger is pulled inadvertently, the saw blade can rotate and result in unexpected accidents.

Do not stare into beam while the laser marker is lighting. Do not observe beam directly with an optical instrument. If your eye is exposed directly to the laser beam, it can be hurt. Instruct the customer not to stare into beam. In addition, instruct the customer not to give strong impact to the laser marker (main body of tool) and not to dismantle the laser marker. Use of controls or adjustments or performance of procedures other than those specified in this TECHNICAL DATA AND SERVICE MANUAL and the Instruction Manual may result in hazardous radiation exposure.

(2) Adjustment of squareness with the fence surface

The laser line inclines to the left by turning the Hex. Socket Set Screw M5 x 6 [6] clockwise and inclines to the right by turning counterclockwise. The squareness of the laser line with the fence surface can be adjusted in this manner.

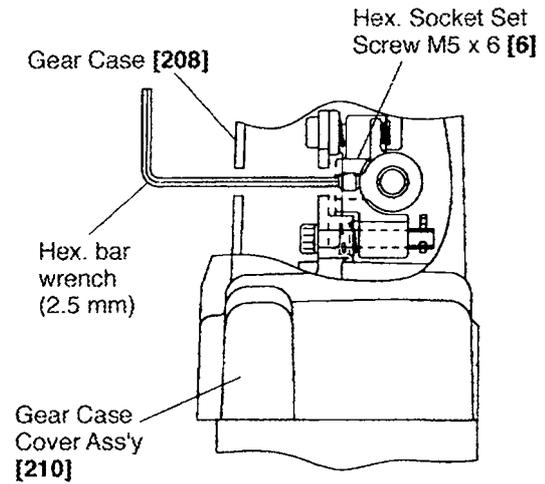


Fig. 48

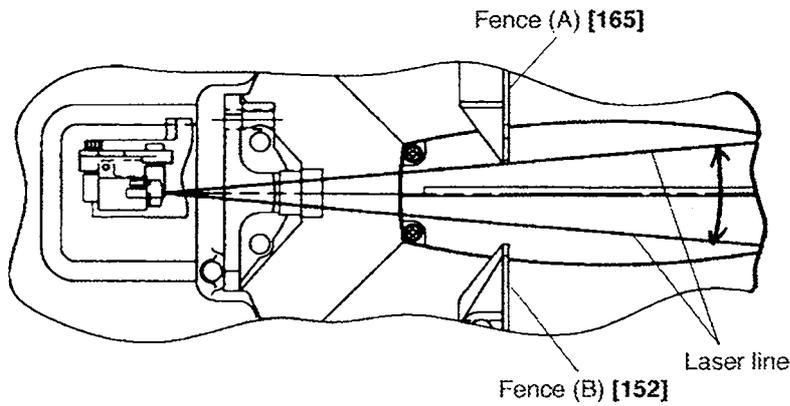


Fig. 49

(3) Adjustment of squareness with the base surface

The laser line inclines to the right by turning the minus groove clockwise and inclines to the left by turning counterclockwise. The squareness of the laser line with the base surface can be adjusted in this manner.

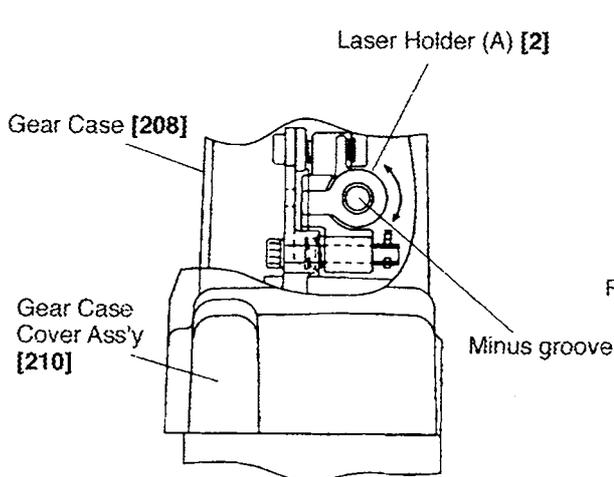


Fig. 50

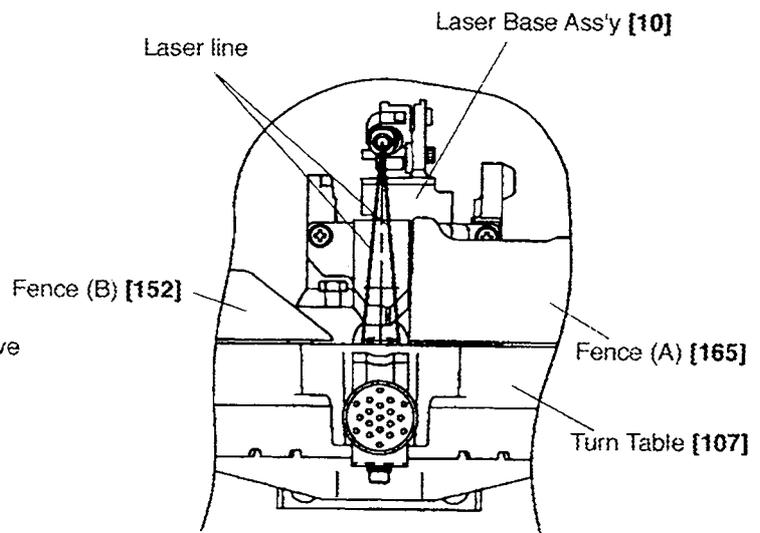


Fig. 51

(4) Adjustment of the laser marker

Adjust the laser marker according to the following steps from ① to ⑤ .

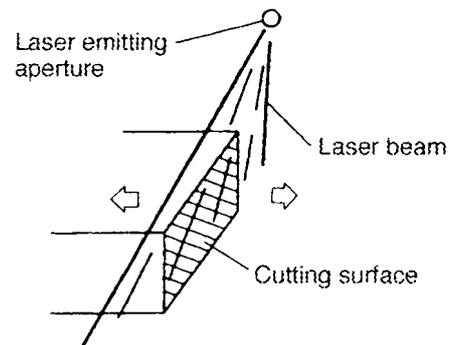
Adjust the product accuracy first because the accuracy of the laser marker is adjusted aligning the cut surface of the workpiece.

- ① First, hold a workpiece of 38 mm in height and 89 mm in width with the vise and perform right-angle cutting.
- ② Light up the laser marker with the workpiece held in the vise. Turn the Special Bolt M5 [8] to shift the laser line onto the cutting surface, top edge or rear edge of the cutting surface.

- ③ Turn the Hex. Socket Set Screw M5 x 6 [6] and the minus groove at the rear of Laser Holder (A) [2] so that laser beam is applied to the entire cutting surface of the workpiece. If the laser line gets out of the cutting surface during the laser line adjustment, turn the Special Bolt M5 [8] to shift the laser line onto the cutting surface, top edge or rear edge of the cutting surface then adjust the accuracy of the laser line. (Repeat this operation 3 or 4 times depending on the adjusting conditions of the laser marker.) Refer to the above (2) and (3) for the relation between the Hex. Socket Set Screw M5 x 6 [6] and the laser line, and the relation between the minus groove at the rear of Laser Holder (A) [2] and the laser line.

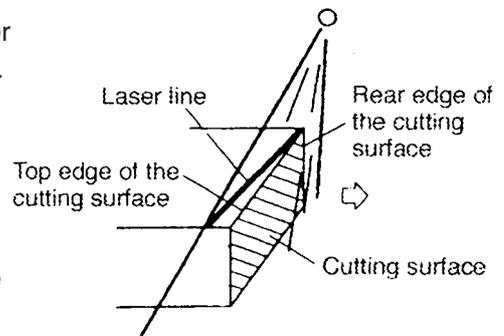
- ④ To check the accuracy of the laser marker, move the laser marker horizontally using the Special Bolt M5 [8] again and check that the laser beam is applied to the entire cutting surface. If the laser beam is applied to the cutting surface in parallel, the fine fuzz reflects the laser beam and the entire cutting surface becomes bright.

- ⑤ Make a right-angle ink line on the workpieces of 38 mm in height and 89 mm in width. Adjust the laser marker and perform cutting. If the ink line matches the cutting position, the accuracy adjustment is completed. (Visually check that the laser marker accuracy is 0.5/100 or less for both the squareness with the base surface and the squareness with the fence surface.)



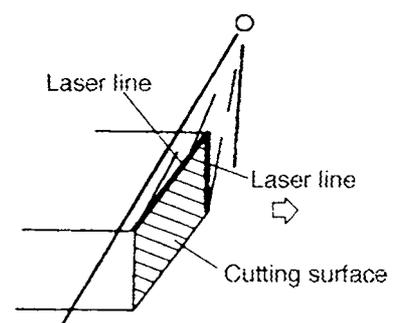
- Cut the workpiece and light up the laser marker.

Fig. 52



- Turn the Special Bolt M5 [8] to shift the laser line onto the cutting surface, top edge or rear edge of the cutting surface.

Fig. 53



- Adjust the Hex. Socket Set Screw M5 x 6 [6] and the minus groove at the rear of Laser Holder (A) [2] or the Special Bolt M5 [8] to apply laser beam to the entire cutting surface.

Fig. 54

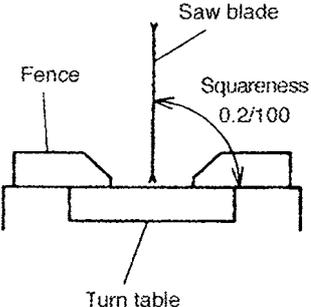
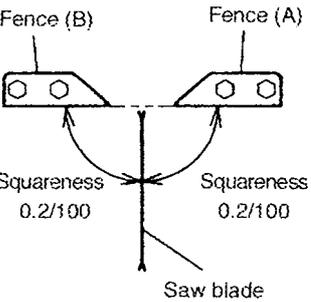
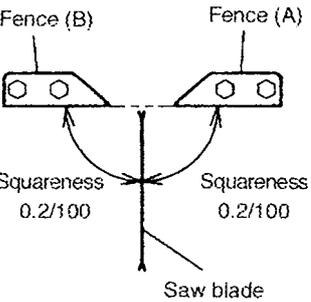
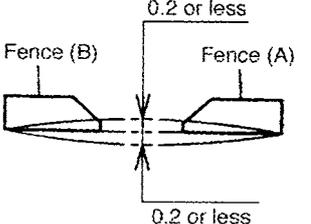
11-10. Tightening Torque

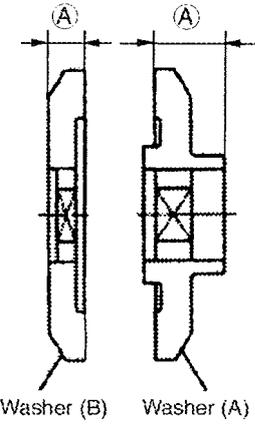
(1) Model: C 12LCH

• Machine Screw (W/Washers) M6 x 20 (Black) [16]	43.4 in-lbs. (4.9 N·m, 50 kgf·cm)
• Machine Screw M5 x 20 [34] [112]	26 in-lbs. (2.9 N·m, 30 kgf·cm)
• Seal Lock Hex. Socket Set Screw M6 x 10 [39]	43.4 in-lbs. (4.9 N·m, 50 kgf·cm)
• Machine Screw (W/Washers) M5 x 16 [46] [124]	30.4 in-lbs. (3.4 N·m, 35 kgf·cm)
• Hex. Socket Hd. Bolt M6 x 20 [55]	86.8 in-lbs. (9.8 N·m, 100 kgf·cm)
• Machine Screw (W/Washers) M4 x 10 (Black) [68] [200]	15.6 in-lbs. (1.8 N·m, 18 kgf·cm)
• Hex. Socket Hd. Bolt M8 x 16 [76]	86.8 in-lbs. (9.8 N·m, 100 kgf·cm)
• Machine Screw (W/Sp. Washer) M4 x 10 [78]	15.6 in-lbs. (1.8 N·m, 18 kgf·cm)
• Bolt M8 x 35 [149]	86.8 in-lbs. (9.8 N·m, 100 kgf·cm)
• Bolt M6 x 10 [160]	43.4 in-lbs. (4.9 N·m, 50 kgf·cm)
• Bolt (A) M10 [191]	130.2 in-lbs. (14.7 N·m, 150 kgf·cm)
• Machine Screw (W/Washers) M6 x 20 (Black) [195]	43.4 in-lbs. (4.9 N·m, 50 kgf·cm)
• Machine Screw (W/Washers) M6 x 20 (Black) [203]	43.4 in-lbs. (4.9 N·m, 50 kgf·cm)
• Machine Screw (W/Washers) M4 x 12 (Black) [206] [287]	15.6 in-lbs. (1.8 N·m, 18 kgf·cm)
• Hex. Socket Hd. Bolt M6 x 16 [207]	86.8 in-lbs. (9.8 N·m, 100 kgf·cm)
• Machine Screw (W/Washers) M4 x 16 [209]	15.6 in-lbs. (1.8 N·m, 18 kgf·cm)
• Special Screw M6 [216]	43.4 in-lbs. (4.9 N·m, 50 kgf·cm)
• Machine Screw M4 x 10 [228]	15.6 in-lbs. (1.8 N·m, 18 kgf·cm)
• Special Screw (C) M5 [230]	30.4 in-lbs. (3.4 N·m, 35 kgf·cm)
• Tapping Screw (W/Flange) D4 x 25 (Black) [237]	17.4 in-lbs. (2 N·m, 20 kgf·cm)
• Machine Screw M5 x 10 (Black) [233] [234] [280]	30.4 in-lbs. (3.4 N·m, 35 kgf·cm)
• Tapping Screw (W/Flange) D4 x 16 [239] [248]	17.4 in-lbs. (2 N·m, 20 kgf·cm)
• Tapping Screw (W/Flange) D4 x 20 (Black) [246]	17.4 in-lbs. (2 N·m, 20 kgf·cm)
• Hex. Socket Set Screw M5 x 8 [260]	8.7 in-lbs. (1 N·m, 10 kgf·cm)
• Machine Screw (W/Washers) M5 x 40 (Black) [275]	30.4 in-lbs. (3.4 N·m, 35 kgf·cm)

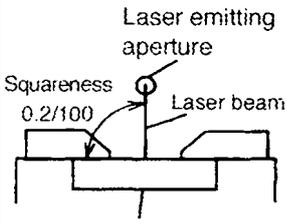
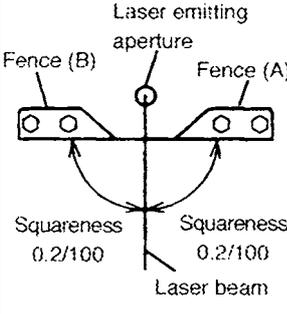
12. REPAIR GUIDE

Unit: mm

Item	Phenomenon	Cause	Factory standard	Inspection, repair or adjustment
1	<p>Inaccurate cutting ... Inaccurate squareness of the cut surface ... Cut surfaces do not fit together properly.</p>	<p>(a) Inaccurate squareness between the turn table and the saw blade causes the saw blade to cut into the workpiece at an angle.</p>	<p>0.2/100 (Dummy disc) (Fig. 55)</p>	<ul style="list-style-type: none"> • Adjust squareness with the Nylock Bolt M8 x 25 [65]. • Replace the Hinge [30A], Gear Case [208] or the Turn Table [107] (if deformed).
	 <p>Fig. 55</p>	<p>(b) Excessive deflection of the saw blade (Excessive vibration)</p>	<p>0.2/280 (Dummy disc)</p>	<ul style="list-style-type: none"> • Replace the TCT Saw Blade 305 mm-D25.4 Hole-NT32 [193]. • Check Washers (A) [194] and (B) [192] for dents, and replace them if dented.
	 <p>Fig. 56</p>	<p>(c) Inaccurate squareness between the fence and the saw blade</p>	<p>0.2/100 (Fig. 56)</p>	<ul style="list-style-type: none"> • Loosen the Bolt M8 x 35 [149] and adjust the squareness. • Replace Fence (A) [165] or Fence (B) [152].
	 <p>Fig. 57</p>	<p>(d) Inaccurate surface flatness of the fence causes workpiece to move irregularly, causing poor squareness of cut surface.</p>	<p>0.2 or less (Fig. 57)</p>	<ul style="list-style-type: none"> • Loosen the Bolt M8 x 35 [149] and adjust the squareness. • Replace Fence (A) [165] or Fence (B) [152].
	 <p>Fig. 57</p>	<p>(e) Loose fitting of swiveling portion of the hinge and the gear case or sluggish movement. As a result, components may be deformed because of unstable gear case or because the operator applies excessive pressure during operation.</p>	<p>—</p>	<ul style="list-style-type: none"> • Check the fitting surfaces of the Hinge [30A], Gear Case [208] and Shaft (C) [29] for any foreign substances (such as cutting dust), and remove it as necessary.
	<p>(f) The workpiece moves during cutting because it is bent or deformed.</p>	<p>—</p>	<ul style="list-style-type: none"> • Correct bend, flex or other deformation by planing and try cutting. 	

Item	Phenomenon	Cause	Factory standard	Inspection, repair or adjustment
2	Rough cut surface Parallelism (A)  Washer (B) Washer (A) Fig. 58	(a) Large deflection of the saw blade (It causes rough cut surface.)	0.2/280 (Dummy disc)	• Same as the Item 1- (b) .
		(b) Each surface parallelism of washer (A), (B) is inaccurate due to surface defects such as impact marks and scratches.	(Fig. 58)	• Replace Washers (A) [194] and (B) [192].
		(c) Inaccurate squareness between the turn table and the saw blade causes the saw blade to cut at an improper angle and make cutting marks.	0.2/100 (Fig. 55)	• Same as the Item 1- (a) .
		(d) Loose fitting of swiveling portion of the hinge and the gear case or sluggish movement.	—	• Same as the Item 1- (e) .
		(e) Cutting operation becomes sluggish because workpiece is warped or bent.	—	• Correct warp or bend with planer.
		(f) Excessive vibration	—	• Recheck the items (a) and (b).
3	Saw blade is locked.	(a) Excessively fast cutting speed	—	• Reduce cutting speed.
		(b) Core diameter of extension cord is too small.	—	• Use a thicker and shorter extension cord.
		(c) Excessive cutting force is applied due to dull saw blade.	—	• Replace the saw blade.
		(d) Incorrect saw blade is used.	—	<ul style="list-style-type: none"> • Use a suitable Hitachi-supplied saw blade. • If the saw blade has a large number of teeth, the cutting resistance will be increased. When using a saw blade with a large number of teeth, reduce the cutting speed.
		(e) The saw blade binds in workpiece during cutting because workpiece is warped or bent.	—	• Correct workpiece deformation with a planer.

Item	Phenomenon	Cause	Factory standard	Inspection, repair or adjustment
4	Saw blade does not rotate when switch is triggered.	Ⓐ The power cord is not connected to power supply.	—	<ul style="list-style-type: none"> • Check power supply voltage. • Connect the power cord to power supply.
		Ⓑ The carbon brush wear exceeds allowable limit (5 mm).	—	<ul style="list-style-type: none"> • Check the Carbon Brushes (1 Pair) [262] for wear. • Replace the Carbon Brushes (1 Pair) [262].
		Ⓒ Contact failure of the micro switch	—	<ul style="list-style-type: none"> • Check the Switch (1P Screw Type) [257] for conductivity. • Replace the Switch (1P Screw Type) [257].
5	Saw blade runs too slow (not within 3,600 — 4,400 min ⁻¹).	Ⓐ Power supply voltage is lower than rated voltage.	—	<ul style="list-style-type: none"> • Check power supply voltage. • Check if extension cord is appropriate.
6	Laser marker does not light. (Models C 12LCH/ C 12FCH)	Ⓐ Improper wiring	—	<ul style="list-style-type: none"> • Check the wiring.
		Ⓑ Switch (B) failure (Only Model C 12LCH)	—	<ul style="list-style-type: none"> • Check Switch (B) (1P Type) [253] for conductivity. • Replace Switch (B) (1P Type) [253].
		Ⓒ Switch (A) failure	—	<ul style="list-style-type: none"> • Check Switch (A) (1P Type) [252] for conductivity. • Replace Switch (A) (1P Type) [252].
		Ⓓ Switching power supply failure	—	<ul style="list-style-type: none"> • Check the Switching Power Supply [249] for conductivity, input and output referring to "11-4. Wiring Diagram". • Replace the Switching Power Supply [249].
		Ⓔ Laser module ass'y failure	—	<ul style="list-style-type: none"> • Replace the Laser Module (A) Ass'y [12A].
7	Laser light is poor or strong. (Models C 12LCH/ C 12FCH)	Ⓐ Switching power supply failure	—	<ul style="list-style-type: none"> • Same as item 6-(d).
		Ⓑ Laser module ass'y failure	—	<ul style="list-style-type: none"> • Same as item 6-(e).

Item	Phenomenon	Cause	Factory standard	Inspection, repair or adjustment
8	Laser line does not match the ink line. (Models C 12LCH/ C 12FCH)  Fig. 59  Fig. 60	(a) Ink line is not right angle.	—	• Make a correct ink line again.
		(b) Laser marker accuracy is not adjusted properly.	0.2/100 (Figs. 59 and 60)	• Readjust the accuracy of the laser marker. (Refer to "11-9. Adjustment of Laser Marker Accuracy".)
		(c) Product accuracy is not good.		• Readjust the accuracy of the product and the laser marker.
9	Laser line does not match the cutting position. (Models C 12LCH/ C 12FCH)	(a) Laser marker is horizontally deviated from the saw blade.	—	• Adjust the position of the laser line. (Refer to "8-1. Position Adjustment of Laser Line".)
		(b) Laser marker accuracy is not adjusted properly.	—	• Same as item 8-(b).
10	Digital display does not indicate anything. (Models C 12LCH/ C 12LC)	(a) Improper wiring	—	• Check the wiring.
		(b) Monitor (A) failure	—	• Replace Monitor (A) [125].
		(c) Monitor ass'y failure	—	• Check the Monitor Ass'y [173] for conductivity. • Replace the Monitor Ass'y [173].
		(d) Controller ass'y failure	—	• Check the Controller [114] for conductivity. • Replace the Controller [114].
		(e) Disconnection of flat cable between monitor ass'y and controller	—	• Replace the Controller [114].
		(f) Switching power supply failure	—	• Check the Switching Power Supply [249] for conductivity. • Replace the Switching Power Supply [249].

Item	Phenomenon	Cause	Factory standard	Inspection, repair or adjustment
11	Digital display does not indicate properly. (Models C 12LCH/ C 12LC)	Ⓐ Same as item 10- Ⓐ to Ⓕ.		• Same as item 10- Ⓐ to Ⓕ.
	(Miter angle)	Ⓑ Encoder failure		• Replace the Encoder [109].
	(Bevel angle)			• Replace the Encoder [109].
	(Miter angle)	Ⓒ Cord (A) is disconnected.		• Replace Cord (A) Length 160 mm [117].
	(Bevel angle)			• Replace Cord (A) Length 160 mm [117].
			Ⓓ Deformation of spring plate	
	Ⓔ Loose spring plate			• Adjust the squareness of the miter angle of the main body and replace the Spring Plate [74A].
12	Angle indicated on the digital display can not be reset. (Models C 12LCH/ C 12LC)	Ⓐ Switch failure of printed circuit board (B1)	—	• Replace Printed Circuit Board (B1) [131].
		Ⓑ Monitor (A) failure		• Replace Monitor (A) [125].
		Ⓒ End of switch life of panel sheet	—	• Replace the Indication Panel Ass'y [128].
13	Back light of digital display can not be turned on/off. (Models C 12LCH/ C 12LC)	Ⓐ Switch failure of printed circuit board (B1) ass'y	—	• Replace the Printed Circuit Board (B1) [131].
		Ⓑ Monitor (A) failure	—	• Replace Monitor (A) [125].
		Ⓒ End of switch life of panel sheet	—	• Replace the Indication Panel Ass'y [128].

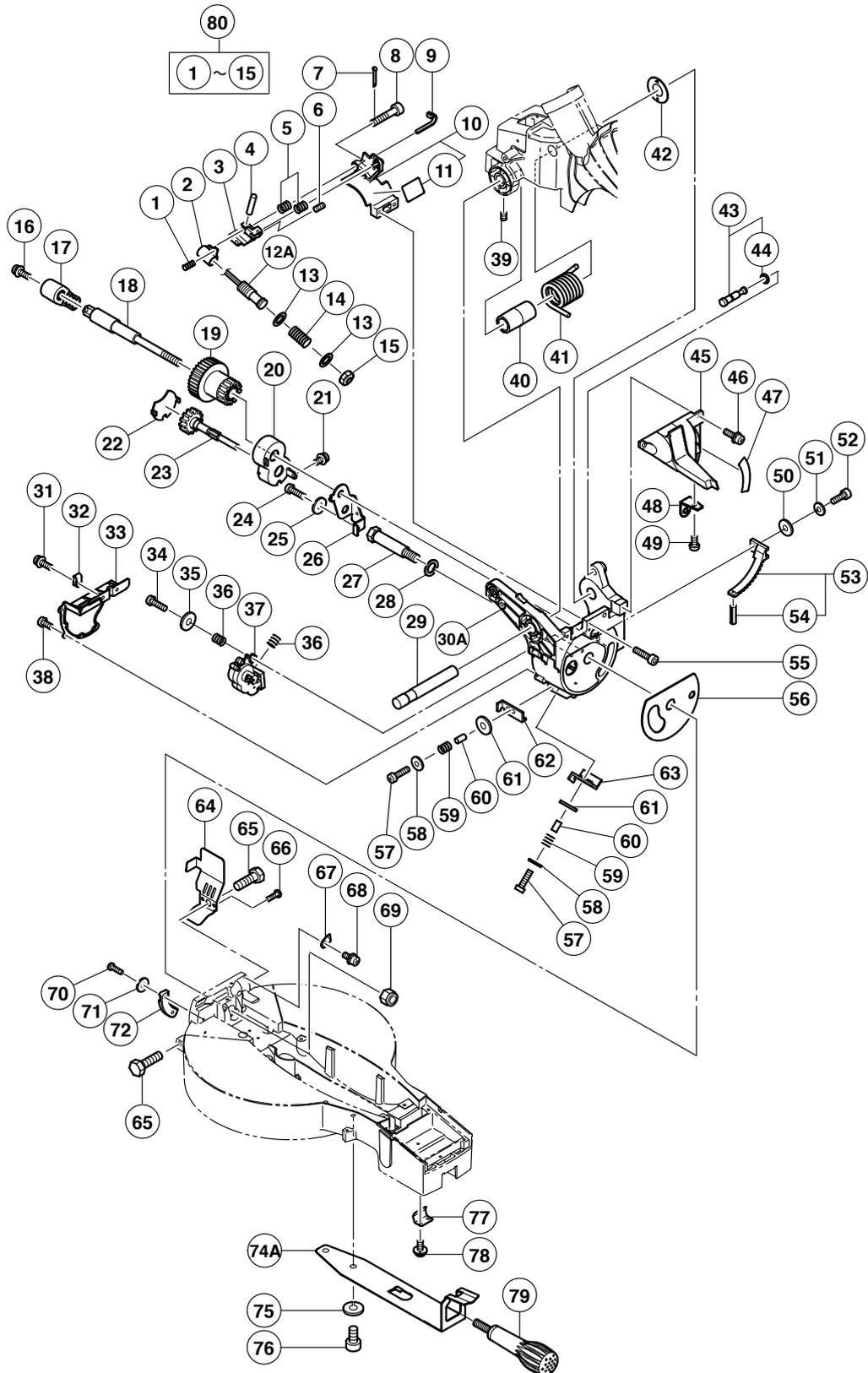
13. STANDARD REPAIR TIME (UNIT) SCHEDULES

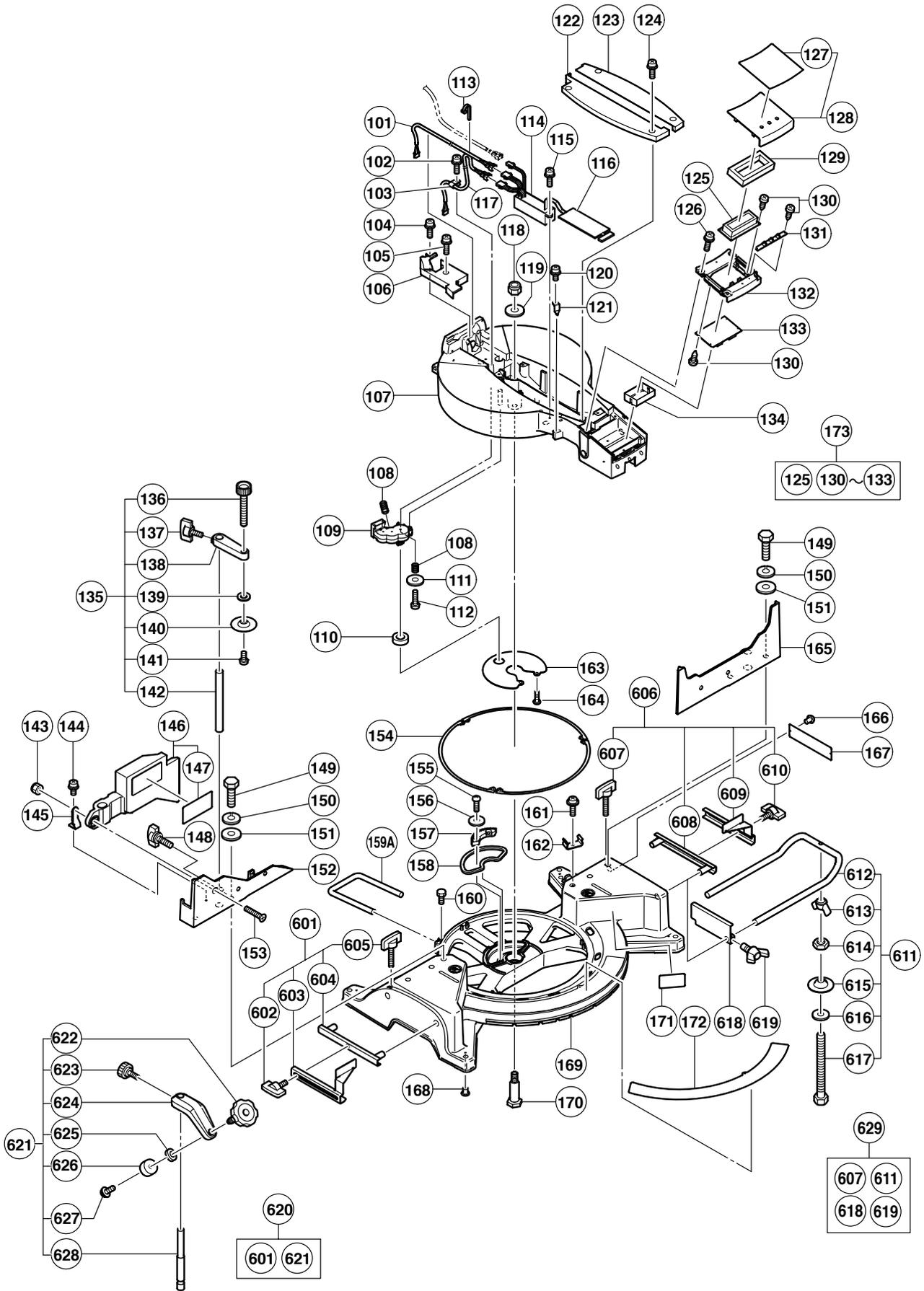
MODEL	Variable		10	20	30	40	50	60	70 min.
	Fixed								
C 12LCH C 12LC C 12FCH	General Assembly	Work Flow							
		Switch Handle (C)	Switch Lever (A)	Switching Power Supply Switch (A) Switch (B) [C 12LCH] Switch Switch Handle (D) Ass'y Cord Cord Armor					
			Armature Ass'y Ball Bearing (6202VV) Ball Bearing (6000VV)						
		Link Protective Cover (B) Protective Cover (A) Return Spring	Lock Lever	Spindle Ass'y Ball Bearing (6203VV) Ball Bearing (608VV) Bearing Holder Spindle Gear Set	Housing Ass'y Stator Ass'y				Gear Case
		Dust Guide Ass'y Clamp Lever Vise Ass'y	Fence (B) Fence (A) Shaft (C) Spring (A)	Shaft (B)	Base Ass'y Liner (A) x 3 Liner (B)			Turn Table Hinge	Monitor Ass'y [C 12LCH, C 12LC]
		Gear Case Cover Laser Holder Ass'y [C 12LCH, C 12FCH]							

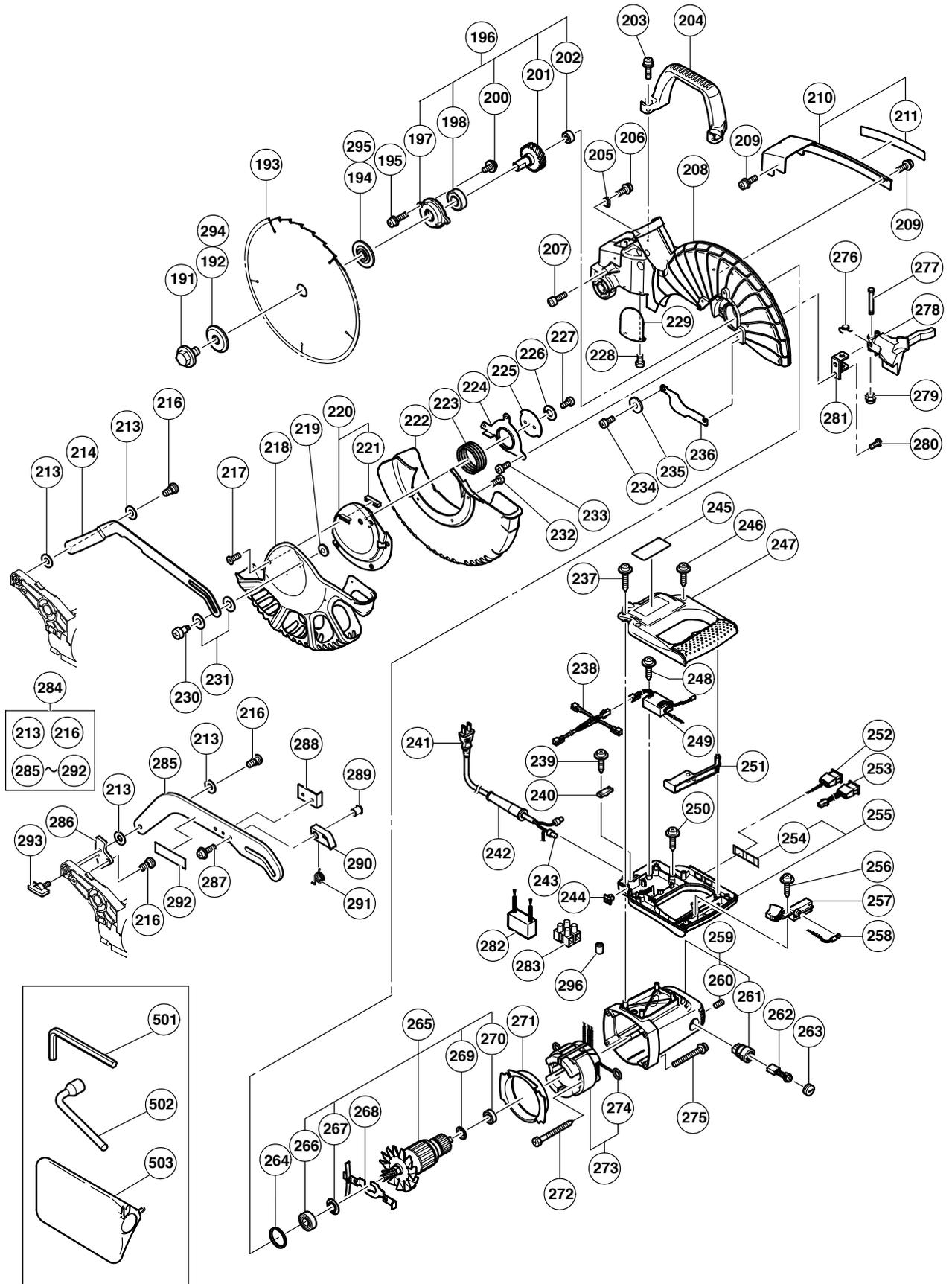
ELECTRIC TOOL PARTS LIST

■ COMPOUND SAW
Model C 12LCH

2005 · 6 · 30
(E2)







PARTS

C 12LCH

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS
1	323-141	SPRING (B)	1	
2	323-137	LASER HOLDER (A)	1	
3	323-138	LASER HOLDER (B)	1	
4	949-900	ROLL PIN D3X14 (10 PCS.)	1	
5	323-142	SPRING (C)	2	
6	962-782	HEX. SOCKET SET SCREW M5X6	1	
7	949-531	SPLIT PIN D2X12 (10 PCS.)	1	
8	323-144	SPECIAL BOLT M5	1	
9	975-144	CABLE TIE	1	
10	323-139	LASER BASE ASS'Y	1	INCLUD. 11
11		CAUTION LABEL (A)	1	
12A	324-711	LASER MODULE (A) ASS'Y	1	INCLUD. 15
13	323-143	WASHER	2	
14	323-140	SPRING (A)	1	
15	323-136	LASER COVER	1	
16	323-208	MACHINE SCREW (W/WASHERS) M6X20 (BLACK)	1	
17	322-935	CLAMP LEVER	1	
18	323-665	BOLT (LEFT HAND) M10	1	
19	323-666	KNOB (A)	1	
20	323-597	GEAR BOX (C)	1	
21	304-043	MACHINE SCREW (W/WASHERS) M4X10 (BLACK)	1	
22	323-598	GEAR BOX (C) COVER	1	
23	323-599	PINION	1	
24	949-821	HEX. SOCKET HD. BOLT M5X16 (10 PCS.)	1	
25	949-454	SPRING WASHER M5 (10 PCS.)	1	
26	323-596	HINGE PLATE	1	
27	322-933	SHAFT (D)	1	
28	322-934	WASHER M16	1	
29	323-593	SHAFT (C)	1	
30A	323-663	HINGE	1	
31	993-539	MACHINE SCREW (W/WASHERS) M4X16	1	
32	980-523	NYLON CLIP	1	
33	323-600	HINGE COVER	1	
34	949-241	MACHINE SCREW M5X20 (10 PCS.)	1	
35	949-432	BOLT WASHER M6 (10 PCS.)	1	
36	323-142	SPRING (C)	2	
37	323-619	ENCODER	1	
38	949-216	MACHINE SCREW M4X10 (10 PCS.)	4	
39	307-956	SEAL LOCK HEX. SOCKET SET SCREW M6X10	1	
40	323-594	SLEEVE	1	
41	323-595	SPRING (A)	1	
42	323-684	LINER (D)	1	
43	302-518	STOPPER PIN ASS'Y	1	INCLUD. 44
44	984-528	O-RING (P-6)	1	
45	323-601	DUST GUIDE ASS'Y	1	INCLUD. 47-49
46	990-541	MACHINE SCREW (W/WASHERS) M5X16	2	
47	323-602	SCALE (B)	1	
48	322-963	DUST GUIDE HOLDER	1	
49	949-214	MACHINE SCREW M4X6 (10 PCS.)	1	
50	949-431	BOLT WASHER M5 (10 PCS.)	1	
51	949-454	SPRING WASHER M5 (10 PCS.)	1	

PARTS

C 12LCH

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS
52	949-821	HEX. SOCKET HD. BOLT M5X16 (10 PCS.)	1	
53	323-664	GEAR (C) ASS'Y	1	INCLUD. 54
54	949-900	ROLL PIN D3X14 (10 PCS.)	1	
55	949-660	HEX. SOCKET HD. BOLT M6X20 (10 PCS.)	2	
56	323-683	LINER (B)	1	
57	949-221	MACHINE SCREW M4X20 (10 PCS.)	2	
58	949-423	WASHER M4 (10 PCS.)	2	
59	323-142	SPRING (C)	2	
60	303-006	SPACER D4X10	2	
61	949-432	BOLT WASHER M6 (10 PCS.)	2	
62	323-662	BEVEL PLATE (B)	1	
63	323-661	BEVEL PLATE (A)	1	
64	323-659	COVER (A)	1	
65	303-409	NYLOCK BOLT M8X25	2	
66	935-196	MACHINE SCREW (W/WASHERS) M4X12 (BLACK)	2	
67	322-893	INDICATOR (B)	1	
68	304-043	MACHINE SCREW (W/WASHERS) M4X10 (BLACK)	1	
69	680-418	NYLON NUT M12	1	
70	949-217	MACHINE SCREW M4X12 (10 PCS.)	2	
71	949-423	WASHER M4 (10 PCS.)	2	
72	323-607	GEAR (B)	1	
74A	323-627	SPRING PLATE	1	
75	949-457	SPRING WASHER M8 (10 PCS.)	2	
76	949-655	HEX. SOCKET HD. BOLT M8X16 (10 PCS.)	2	
77	323-609	SPACER (A)	1	
78	307-635	MACHINE SCREW (W/SP. WASHER) M4X10	2	
79	323-680	SIDE HANDLE	1	
80	323-646	LASER HOLDER ASS'Y	1	INCLUD. 1-15
101	323-658	CORD (A) LENGTH 380MM	1	
102	993-539	MACHINE SCREW (W/WASHERS) M4X16	1	
103	973-313	NYLON CLIP	1	
104	304-043	MACHINE SCREW (W/WASHERS) M4X10 (BLACK)	1	
105	993-539	MACHINE SCREW (W/WASHERS) M4X16	1	
106	323-650	CORD COVER	1	
107	323-624	TURN TABLE	1	
108	323-142	SPRING (C)	2	
109	323-619	ENCODER	1	
110	323-622	PACKING (B)	1	
111	949-432	BOLT WASHER M6 (10 PCS.)	1	
112	949-241	MACHINE SCREW M5X20 (10 PCS.)	1	
113	975-144	CABLE TIE	1	
114	323-621	CONTROLLER	1	
115	993-539	MACHINE SCREW (W/WASHERS) M4X16	1	
116	323-617	PACKING (C)	1	
117	323-620	CORD (A) LENGTH 160MM	1	
118	975-348	NYLON NUT M8	1	
119	318-929	WASHER (F)	1	
120	304-043	MACHINE SCREW (W/WASHERS) M4X10 (BLACK)	1	
121	318-927	INDICATOR (A)	1	
122	323-648	TABLE INSERT (A)	1	
123	323-649	TABLE INSERT (B)	1	

PARTS

C 12LCH

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS
124	990-541	MACHINE SCREW (W/WASHERS) M5X16	4	
125	323-612	MONITOR (A)	1	
126	993-539	MACHINE SCREW (W/WASHERS) M4X16	4	
127	323-616	PANEL SHEET (A)	1	
128	323-615	INDICATION PANEL ASS'Y	1	INCLUD. 127
129	323-608	PACKING (D)	1	
130	321-672	TAPPING SCREW D2X6	10	
131	323-613	PRINTED CIRCUIT BOARD (B1)	1	
132	323-611	MONITOR CASE (A)	1	
133	323-614	PRINTED CIRCUIT BOARD (B2)	1	
134	323-618	INSULATING CASE	1	
135	323-677	WISE ASS'Y	1	INCLUD. 136-142
136	323-678	KNOB BOLT	1	
137	301-806	WING BOLT M6X15	1	
138		SCREW HOLDER	1	
139	949-432	BOLT WASHER M6 (10 PCS.)	1	
140	302-532	WISE PLATE	1	
141	949-216	MACHINE SCREW M4X10 (10 PCS.)	1	
142	322-954	WISE SHAFT	1	
143	311-144	NYLON NUT M6	1	
144	304-043	MACHINE SCREW (W/WASHERS) M4X10 (BLACK)	1	
145	323-631	PLATE (C)	1	
146	323-630	SUB FENCE ASS'Y	1	INCLUD. 147
147		WARNING LABEL (H)	1	
148	301-806	WING BOLT M6X15	1	
149	949-678	BOLT M8X35 (10 PCS.)	4	
150	949-457	SPRING WASHER M8 (10 PCS.)	4	
151	949-433	BOLT WASHER M8 (10 PCS.)	4	
152	323-629	FENCE (B)	1	
153	323-685	FLAT HD. SCREW M6X30	1	
154	323-625	LINER (A)	3	
155	302-317	MACHINE SCREW M5X16 (BLACK)	2	
156	949-431	BOLT WASHER M5 (10 PCS.)	2	
157	323-604	GEAR (A)	1	
158	323-603	PACKING (A)	1	
159A	322-910	HOLDER	1	
160	949-610	BOLT M6X10 (10 PCS.)	1	
161	987-512	MACHINE SCREW (W/SP. WASHER) M5X16	1	
162	323-605	HOOK	1	
163	323-623	DUST COVER	1	
164	949-215	MACHINE SCREW M4X8 (10 PCS.)	1	
165	323-628	FENCE (A)	1	
* 166	949-510	RIVET D2.5X4.8 (10 PCS.)	2	FOR USA, CAN
* 167		WARNING LABEL (A)	1	FOR USA, CAN
168	323-606	BASE RUBBER	4	
* 169	324-622	BASE ASS'Y	1	INCLUD. 168, 171, 172
* 169	323-655	BASE ASS'Y	1	INCLUD. 166-168, 171, 172 FOR USA, CAN
170	323-626	SHAFT (B)	1	
* 171		CAUTION LABEL (D)	1	
* 171		CAUTION LABEL (C)	1	FOR USA, CAN
172	323-656	SCALE (A)	1	

PARTS

C 12LCH

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS
173	323-610	MONITOR ASS'Y	1	INCLUD. 125, 130-133
191	988-101	BOLT (A) M10	1	
* 192	323-652	WASHER (B)	1	EXCEPT FOR EUROPE
* 193	323-522	TCT SAW BLADE 305MM-D25.4 HOLE-NT32	1	
* 193	324-268	TCT SAW BLADE 305MM-D30 HOLE-NT32	1	
* 193	324-269	TCT SAW BLADE 305MM-D25.4 HOLE-NT120	1	
* 194	323-651	WASHER (A)	1	EXCEPT FOR EUROPE
195	323-208	MACHINE SCREW (W/WASHERS) M6X20 (BLACK)	2	
196	323-639	SPINDLE ASS'Y	1	INCLUD. 197, 198, 200-202
197	323-641	BEARING HOLDER	1	
198	620-3VV	BALL BEARING 6203VVCMP2L	1	
200	304-043	MACHINE SCREW (W/WASHERS) M4X10 (BLACK)	2	
201	323-640	SPINDLE AND GEAR SET	1	
202	608-VVM	BALL BEARING 608VVC2PS2L	1	
203	323-208	MACHINE SCREW (W/WASHERS) M6X20 (BLACK)	2	
204	322-924	HANDLE	1	
205	980-523	NYLON CLIP	1	
206	935-196	MACHINE SCREW (W/WASHERS) M4X12 (BLACK)	1	
207	949-755	HEX. SOCKET HD. BOLT M6X16 (10 PCS.)	1	
208	323-638	GEAR CASE	1	
209	993-539	MACHINE SCREW (W/WASHERS) M4X16	2	
210	323-653	GEAR CASE COVER ASS'Y	1	INCLUD. 211
211	323-654	CAUTION LABEL (B)	1	FOR POSITION ADJUSTMENT OF LASER LINE
213	322-948	WASHER M7	2	
* 214	323-674	LINK	1	EXCEPT FOR EUROPE
* 216	322-950	SPECIAL SCREW M6	1	
* 216	322-950	SPECIAL SCREW M6	2	FOR EUROPE
217	318-363	FLAT HD. SCREW M4X10 (BLACK)	1	
218	323-668	PROTECTIVE COVER (B)	1	
219	949-454	SPRING WASHER M5 (10 PCS.)	1	
220	323-672	COVER PLATE (B) ASS'Y	1	INCLUD. 221
221	323-673	CUSHION	1	
222	323-667	PROTECTIVE COVER (A)	1	
223	323-671	RETURN SPRING	1	
224	323-669	COVER PLATE (A)	1	
225	323-670	COVER WASHER	1	
226	949-454	SPRING WASHER M5 (10 PCS.)	1	
227	949-236	MACHINE SCREW M5X10 (10 PCS.)	1	
228	949-216	MACHINE SCREW M4X10 (10 PCS.)	1	
229	322-926	LASER COVER (A)	1	
230	322-947	SPECIAL SCREW (C) M5	1	
231	322-938	WASHER M10	2	
232	949-215	MACHINE SCREW M4X8 (10 PCS.)	3	
233	323-040	MACHINE SCREW M5X10 (BLACK)	3	
* 234	323-040	MACHINE SCREW M5X10 (BLACK)	2	FOR EUROPE, USA, CAN, AUS
* 235	949-431	BOLT WASHER M5 (10 PCS.)	1	FOR EUROPE, USA, CAN, AUS
* 236	323-675	SPINDLE COVER	1	FOR EUROPE, USA, CAN, AUS
237	307-028	TAPPING SCREW (W/FLANGE) D4X25 (BLACK)	2	
238	323-632	CORD (B)	1	
239	984-750	TAPPING SCREW (W/FLANGE) D4X16	2	
240	937-631	CORD CLIP	1	

PARTS

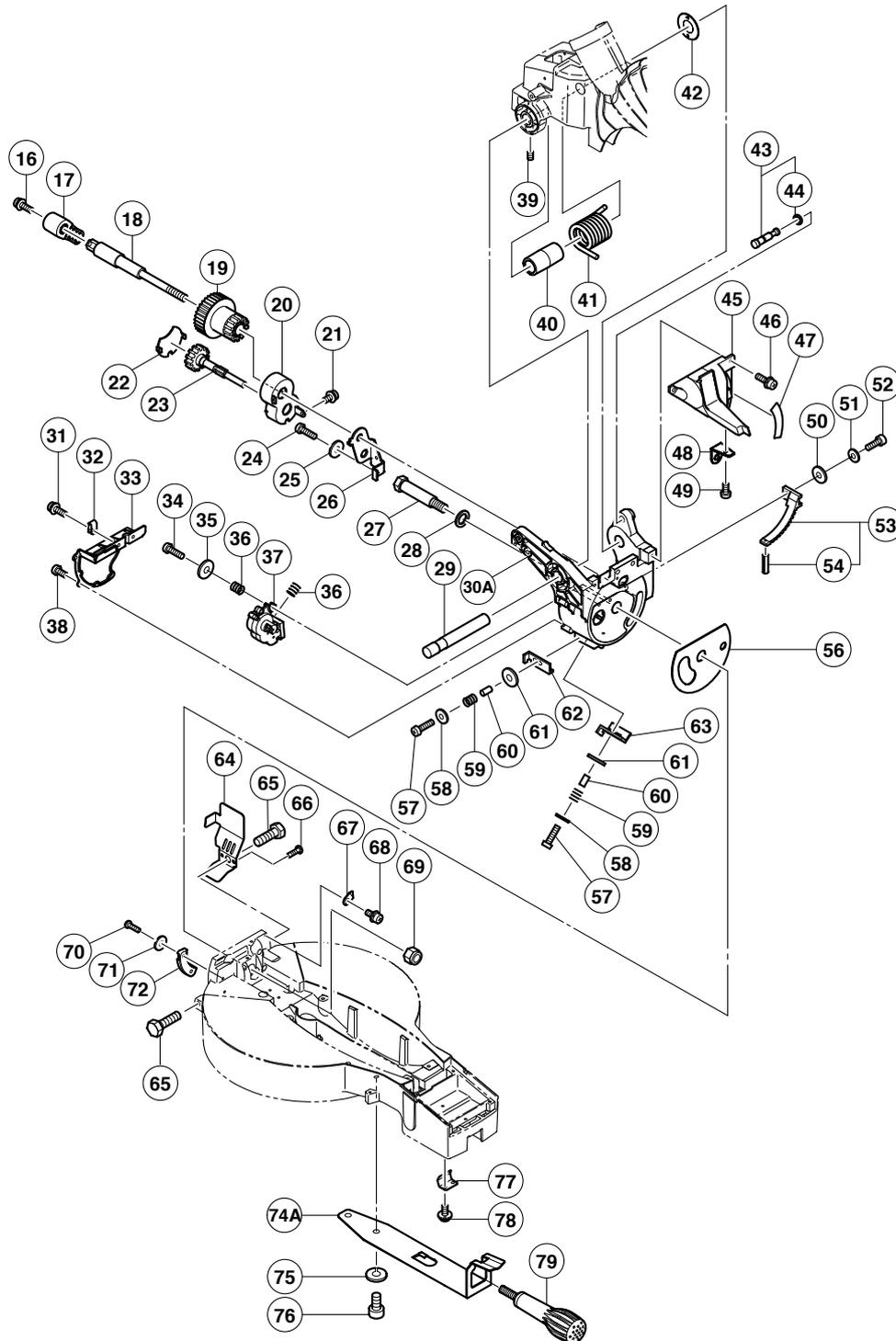
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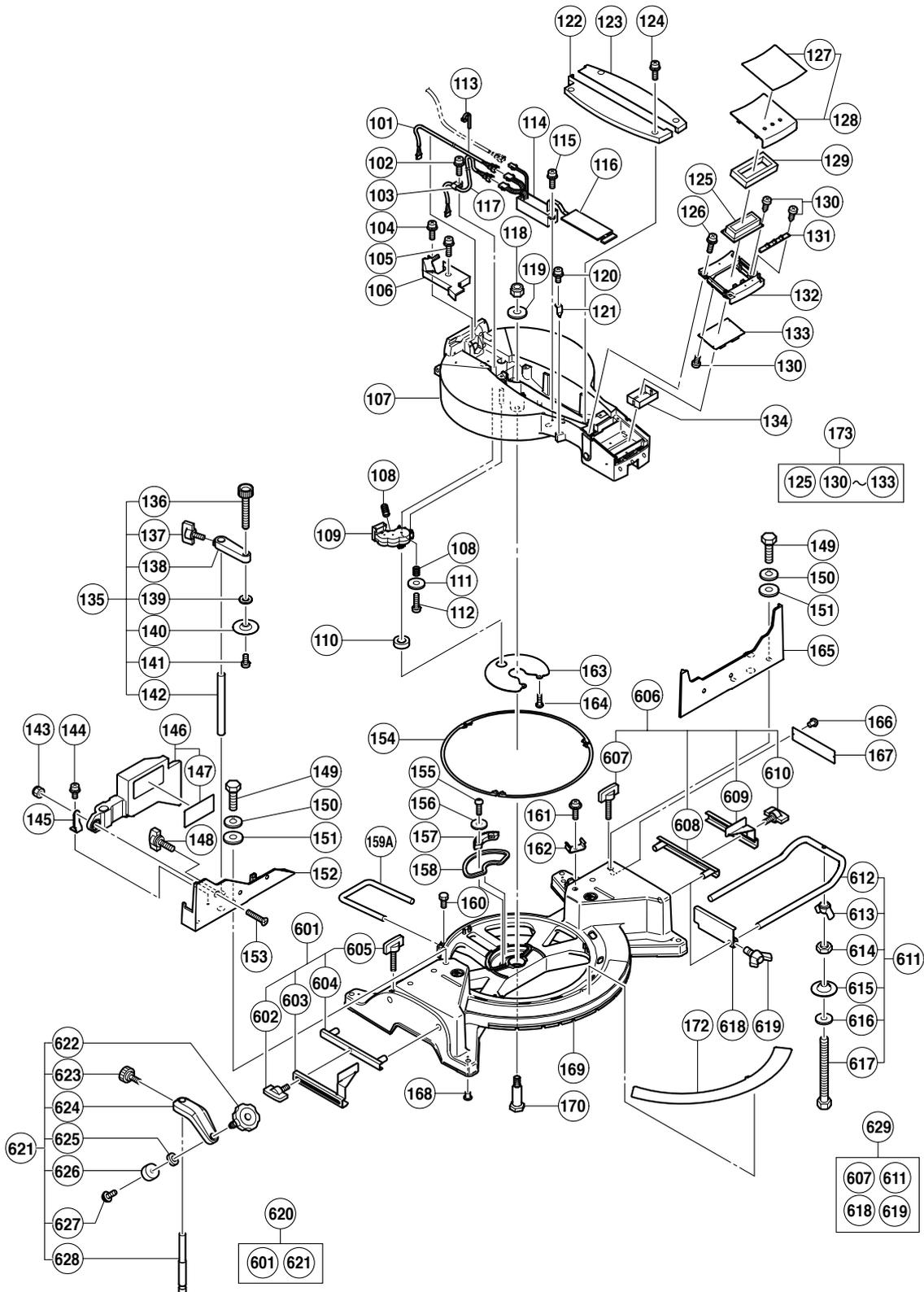
ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
* 241	500-234Z	CORD	1	(CORD ARMOR D10.7)	
* 241	500-435Z	CORD	1	(CORD ARMOR D10.7) FOR GBR (230V)	
* 241	500-461Z	CORD	1	(CORD ARMOR D10.7) FOR GBR (110V)	
* 241	500-247Z	CORD	1	(CORD ARMOR D10.7) FOR FIN	
* 241	500-453Z	CORD	1	(CORD ARMOR D10.7) FOR USA, CAN	
* 241	500-439Z	CORD	1	(CORD ARMOR D10.7) FOR AUS, NZL	
* 241	500-456Z	CORD	1	(CORD ARMOR D10.7) FOR CHN	
	242	940-778	CORD ARMOR D10.7	1	
* 243	959-141	CONNECTOR 50092 (10 PCS.)	2	FOR USA, CAN	
	244	319-349	CORD BUSH	1	
	245		NAME PLATE	1	
	246	301-653	TAPPING SCREW (W/FLANGE) D4X20 (BLACK)	4	
	247	323-642	SWITCH HANDLE (C)	1	
	248	984-750	TAPPING SCREW (W/FLANGE) D4X16	1	
* 249	323-978	SWITCHING POWER SUPPLY	1		
* 249	324-322	SWITCHING POWER SUPPLY	1	FOR GBR (110V)	
* 249	322-911	SWITCHING POWER SUPPLY	1	FOR USA, CAN	
	250	301-653	TAPPING SCREW (W/FLANGE) D4X20 (BLACK)	2	
	251	323-645	SWITCH LEVER (A)	1	
	252	323-634	SWITCH (A) (1P TYPE)	1	
	253	323-635	SWITCH (B) (1P TYPE)	1	
	254	323-644	SWITCH LABEL (A)	1	
	255	323-643	SWITCH HANDLE (D) ASS'Y	1	INCLUD. 254
	256	984-750	TAPPING SCREW (W/FLANGE) D4X16	1	
	257	320-950	SWITCH (1P SCREW TYPE)	1	
* 258	323-983	INTERNAL WIRE (D)	1		
* 258	323-633	INTERNAL WIRE (A)	1	FOR USA,CAN	
	259	322-914	HOUSING ASS'Y	1	INCLUD. 260, 261
	260	938-477	HEX. SOCKET SET SCREW M5X8	2	
	261	938-241	BRUSH HOLDER	2	
* 262	999-038	CARBON BRUSH (1 PAIR)	2	FOR 110V-120V	
* 262	999-065	CARBON BRUSH (1 PAIR)	2	FOR 220V-240V	
	263	945-161	BRUSH CAP	2	
	264	303-792	RUBBER RING	1	
* 265	360-684U	ARMATURE ASS'Y 110V-120V	1	INCLUD. 266, 267, 269, 270	
* 265	360-710E	ARMATURE 220V-230V	1		
* 265	360-710F	ARMATURE 240V	1		
	266	620-2VV	BALL BEARING 6202VVCMP2L	1	
	267	980-700	DUST WASHER (B)	1	
	268	323-637	LOCK LEVER	1	
	269	302-428	WASHER (A)	1	
	270	600-0VV	BALL BEARING 6000VVCMP2L	1	
	271	322-915	FAN GUIDE	1	
	272	953-174	HEX. HD. TAPPING SCREW D5X55	2	
* 273	340-603D	STATOR ASS'Y 110V	1	INCLUD. 274	
* 273	340-603C	STATOR ASS'Y 120V	1	INCLUD. 274	
* 273	340-603E	STATOR ASS'Y 220V	1	INCLUD. 274	
* 273	340-625E	STATOR ASS'Y (B) 230V	1	INCLUD. 274	
* 273	340-633E	STATOR ASS'Y (C) 230V	1	INCLUD. 274 FOR NZL	
* 273	340-625F	STATOR ASS'Y (B) 240V	1	INCLUD. 274	
	274	937-623	BRUSH TERMINAL	2	

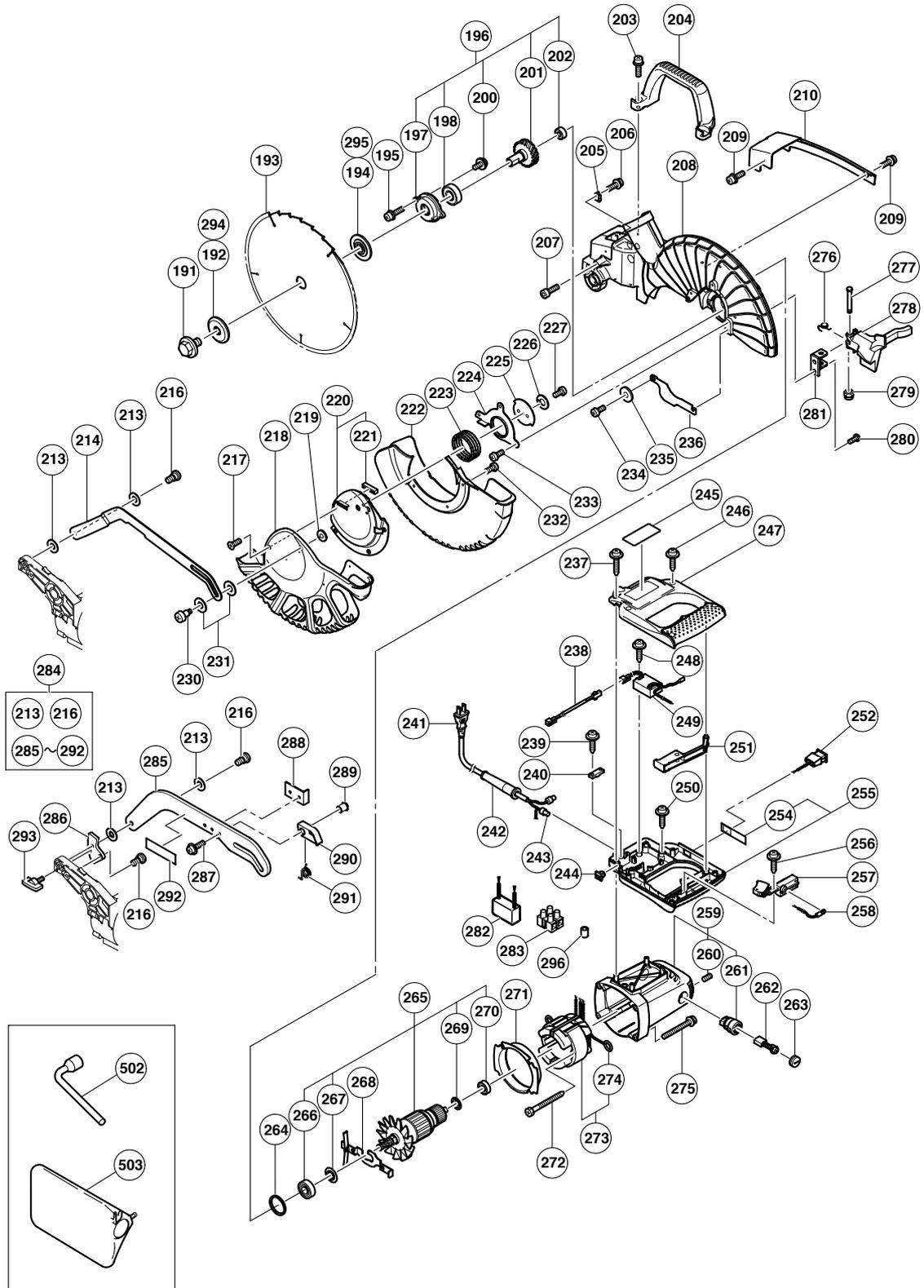
ELECTRIC TOOL PARTS LIST

■ COMPOUND SAW
Model C 12LC

2005 · 6 · 30
(E2)







PARTS

C 12LC

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS
16	323-208	MACHINE SCREW (W/WASHERS) M6X20 (BLACK)	1	
17	322-935	CLAMP LEVER	1	
18	323-665	BOLT (LEFT HAND) M10	1	
19	323-666	KNOB (A)	1	
20	323-597	GEAR BOX (C)	1	
21	304-043	MACHINE SCREW (W/WASHERS) M4X10 (BLACK)	1	
22	323-598	GEAR BOX (C) COVER	1	
23	323-599	PINION	1	
24	949-821	HEX. SOCKET HD. BOLT M5X16 (10 PCS.)	1	
25	949-454	SPRING WASHER M5 (10 PCS.)	1	
26	323-596	HINGE PLATE	1	
27	322-933	SHAFT (D)	1	
28	322-934	WASHER M16	1	
29	323-593	SHAFT (C)	1	
30A	323-663	HINGE	1	
31	993-539	MACHINE SCREW (W/WASHERS) M4X16	1	
32	980-523	NYLON CLIP	1	
33	323-600	HINGE COVER	1	
34	949-241	MACHINE SCREW M5X20 (10 PCS.)	1	
35	949-432	BOLT WASHER M6 (10 PCS.)	1	
36	323-142	SPRING (C)	2	
37	323-619	ENCODER	1	
38	949-216	MACHINE SCREW M4X10 (10 PCS.)	4	
39	307-956	SEAL LOCK HEX. SOCKET SET SCREW M6X10	1	
40	323-594	SLEEVE	1	
41	323-595	SPRING (A)	1	
42	323-684	LINER (D)	1	
43	302-518	STOPPER PIN ASS'Y	1	INCLUD. 44
44	984-528	O-RING (P-6)	1	
45	323-601	DUST GUIDE ASS'Y	1	INCLUD. 47-49
46	990-541	MACHINE SCREW (W/WASHERS) M5X16	2	
47	323-602	SCALE (B)	1	
48	322-963	DUST GUIDE HOLDER	1	
49	949-214	MACHINE SCREW M4X6 (10 PCS.)	1	
50	949-431	BOLT WASHER M5 (10 PCS.)	1	
51	949-454	SPRING WASHER M5 (10 PCS.)	1	
52	949-821	HEX. SOCKET HD. BOLT M5X16 (10 PCS.)	1	
53	323-664	GEAR (C) ASS'Y	1	INCLUD. 54
54	949-900	ROLL PIN D3X14 (10 PCS.)	1	
56	323-683	LINER (B)	1	
57	949-221	MACHINE SCREW M4X20 (10 PCS.)	2	
58	949-423	WASHER M4 (10 PCS.)	2	
59	323-142	SPRING (C)	2	
60	303-006	SPACER D4X10	2	
61	949-432	BOLT WASHER M6 (10 PCS.)	2	
62	323-662	BEVEL PLATE (B)	1	
63	323-661	BEVEL PLATE (A)	1	
64	323-659	COVER (A)	1	
65	303-409	NYLOCK BOLT M8X25	2	
66	935-196	MACHINE SCREW (W/WASHERS) M4X12 (BLACK)	2	
67	322-893	INDICATOR (B)	1	

PARTS

C 12LC

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS
68	304-043	MACHINE SCREW (W/WASHERS) M4X10 (BLACK)	1	
69	680-418	NYLON NUT M12	1	
70	951-039	MACHINE SCREW (W/SP. WASHER) M4X12	2	
71	949-423	WASHER M4 (10 PCS.)	2	
72	323-607	GEAR (B)	1	
74A	323-627	SPRING PLATE	1	
75	949-457	SPRING WASHER M8 (10 PCS.)	2	
76	949-655	HEX. SOCKET HD. BOLT M8X16 (10 PCS.)	2	
77	323-609	SPACER (A)	1	
78	307-635	MACHINE SCREW (W/SP. WASHER) M4X10	2	
79	323-680	SIDE HANDLE	1	
101	323-658	CORD (A) LENGTH 380MM	1	
102	993-539	MACHINE SCREW (W/WASHERS) M4X16	1	
103	973-313	NYLON CLIP	1	
104	304-043	MACHINE SCREW (W/WASHERS) M4X10 (BLACK)	1	
105	993-539	MACHINE SCREW (W/WASHERS) M4X16	1	
106	323-650	CORD COVER	1	
107	323-624	TURN TABLE	1	
108	323-142	SPRING (C)	2	
109	323-619	ENCODER	1	
110	323-622	PACKING (B)	1	
111	949-432	BOLT WASHER M6 (10 PCS.)	1	
112	949-241	MACHINE SCREW M5X20 (10 PCS.)	1	
113	975-144	CABLE TIE	1	
114	323-621	CONTROLLER	1	
115	993-539	MACHINE SCREW (W/WASHERS) M4X16	1	
116	323-617	PACKING (C)	1	
117	323-620	CORD (A) LENGTH 160MM	1	
118	975-348	NYLON NUT M8	1	
119	318-929	WASHER (F)	1	
120	304-043	MACHINE SCREW (W/WASHERS) M4X10 (BLACK)	1	
121	318-927	INDICATOR (A)	1	
122	323-648	TABLE INSERT (A)	1	
123	323-649	TABLE INSERT (B)	1	
124	990-541	MACHINE SCREW (W/WASHERS) M5X16	4	
125	323-612	MONITOR (A)	1	
126	993-539	MACHINE SCREW (W/WASHERS) M4X16	4	
127	323-616	PANEL SHEET (A)	1	
128	323-615	INDICATION PANEL ASS'Y	1	INCLUD. 127
129	323-608	PACKING (D)	1	
130	321-672	TAPPING SCREW D2X6	10	
131	323-613	PRINTED CIRCUIT BOARD (B1)	1	
132	323-611	MONITOR CASE (A)	1	
133	323-614	PRINTED CIRCUIT BOARD (B2)	1	
134	323-618	INSULATING CASE	1	
135	323-677	WISE ASS'Y	1	INCLUD. 136-142
136	323-678	KNOB BOLT	1	
137	301-806	WING BOLT M6X15	1	
138		SCREW HOLDER	1	
139	949-432	BOLT WASHER M6 (10 PCS.)	1	
140	302-532	WISE PLATE	1	

PARTS

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ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS
141	949-216	MACHINE SCREW M4X10 (10 PCS.)	1	
142	322-954	WISE SHAFT	1	
143	311-144	NYLON NUT M6	1	
144	304-043	MACHINE SCREW (W/WASHERS) M4X10 (BLACK)	1	
145	323-631	PLATE (C)	1	
146	323-630	SUB FENCE ASS'Y	1	INCLUD. 147
147		WARNING LABEL (H)	1	
148	301-806	WING BOLT M6X15	1	
149	949-678	BOLT M8X35 (10 PCS.)	4	
150	949-457	SPRING WASHER M8 (10 PCS.)	4	
151	949-433	BOLT WASHER M8 (10 PCS.)	4	
152	323-629	FENCE (B)	1	
153	323-685	FLAT HD. SCREW M6X30	1	
154	323-625	LINER (A)	3	
155	302-317	MACHINE SCREW M5X16 (BLACK)	2	
156	949-431	BOLT WASHER M5 (10 PCS.)	2	
157	323-604	GEAR (A)	1	
158	323-603	PACKING (A)	1	
159A	322-910	HOLDER	1	
160	949-610	BOLT M6X10 (10 PCS.)	1	
161	987-512	MACHINE SCREW (W/SP. WASHER) M5X16	1	
162	323-605	HOOK	1	
163	323-623	DUST COVER	1	
164	949-215	MACHINE SCREW M4X8 (10 PCS.)	1	
165	323-628	FENCE (A)	1	
* 166	949-510	RIVET D2.5X4.8 (10 PCS.)	2	FOR USA, CAN
* 167		WARNING LABEL (A)	1	FOR USA, CAN
168	323-606	BASE RUBBER	4	
* 169	324-650	BASE ASS'Y	1	INCLUD. 168, 172
* 169	323-690	BASE ASS'Y	1	INCLUD. 166-168, 172 FOR USA, CAN
170	323-626	SHAFT (B)	1	
172	323-656	SCALE (A)	1	
173	323-610	MONITOR ASS'Y	1	INCLUD. 125, 130-133
191	988-101	BOLT (A) M10	1	
* 192	323-652	WASHER (B)	1	EXCEPT FOR EUROPE
* 193	323-522	TCT SAW BLADE 305MM-D25.4 HOLE-NT32	1	
* 193	324-268	TCT SAW BLADE 305MM-D30 HOLE-NT32	1	
* 194	323-651	WASHER (A)	1	EXCEPT FOR EUROPE
195	323-208	MACHINE SCREW (W/WASHERS) M6X20 (BLACK)	2	
196	323-639	SPINDLE ASS'Y	1	INCLUD. 197, 198, 200-202
197	323-641	BEARING HOLDER	1	
198	620-3VV	BALL BEARING 6203VVCMP2L	1	
200	304-043	MACHINE SCREW (W/WASHERS) M4X10 (BLACK)	2	
201	323-640	SPINDLE AND GEAR SET	1	
202	608-VVM	BALL BEARING 608VVC2PS2L	1	
203	323-208	MACHINE SCREW (W/WASHERS) M6X20 (BLACK)	2	
204	322-924	HANDLE	1	
205	980-523	NYLON CLIP	1	
206	935-196	MACHINE SCREW (W/WASHERS) M4X12 (BLACK)	1	
207	949-755	HEX. SOCKET HD. BOLT M6X16 (10 PCS.)	1	
208	323-638	GEAR CASE	1	

PARTS

C 12LC

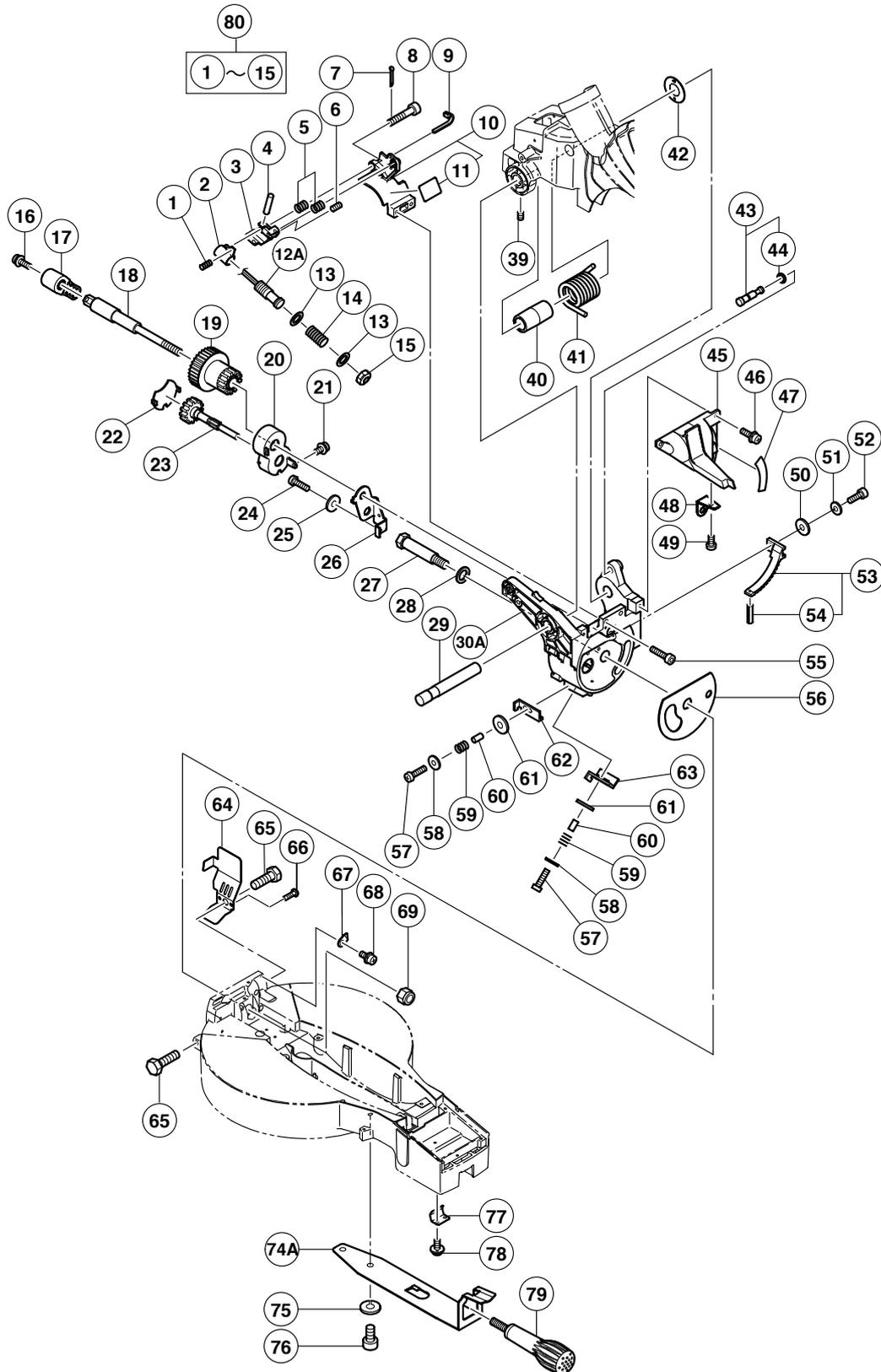
ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS
209	993-539	MACHINE SCREW (W/WASHERS) M4X16	2	
210	323-689	GEAR CASE COVER	1	
213	322-948	WASHER M7	2	
* 214	323-674	LINK	1	EXCEPT FOR EUROPE
* 216	322-950	SPECIAL SCREW M6	1	
* 216	322-950	SPECIAL SCREW M6	2	FOR EUROPE
217	318-363	FLAT HD. SCREW M4X10 (BLACK)	1	
218	323-691	PROTECTIVE COVER (B)	1	
219	949-454	SPRING WASHER M5 (10 PCS.)	1	
220	323-672	COVER PLATE (B) ASS'Y	1	INCLUD. 221
221	323-673	CUSHION	1	
222	323-667	PROTECTIVE COVER (A)	1	
223	323-671	RETURN SPRING	1	
224	323-669	COVER PLATE (A)	1	
225	323-670	COVER WASHER	1	
226	949-454	SPRING WASHER M5 (10 PCS.)	1	
227	949-236	MACHINE SCREW M5X10 (10 PCS.)	1	
230	322-947	SPECIAL SCREW (C) M5	1	
231	322-938	WASHER M10	2	
232	949-215	MACHINE SCREW M4X8 (10 PCS.)	3	
233	323-040	MACHINE SCREW M5X10 (BLACK)	3	
* 234	323-040	MACHINE SCREW M5X10 (BLACK)	2	FOR EUROPE, USA, CAN
* 235	949-431	BOLT WASHER M5 (10 PCS.)	1	FOR EUROPE, USA, CAN
* 236	323-675	SPINDLE COVER	1	FOR EUROPE, USA, CAN
237	307-028	TAPPING SCREW (W/FLANGE) D4X25 (BLACK)	2	
238	323-686	CORD (C)	1	
239	984-750	TAPPING SCREW (W/FLANGE) D4X16	2	
240	937-631	CORD CLIP	1	
* 241	500-234Z	CORD	1	(CORD ARMOR D10.7)
* 241	500-435Z	CORD	1	(CORD ARMOR D10.7) FOR GBR (230V)
* 241	500-461Z	CORD	1	(CORD ARMOR D10.7) FOR GBR (110V)
* 241	500-453Z	CORD	1	(CORD ARMOR D10.7) FOR USA, CAN
* 241	500-439Z	CORD	1	(CORD ARMOR D10.7) FOR NZL
242	940-778	CORD ARMOR D10.7	1	
* 243	959-141	CONNECTOR 50092 (10 PCS.)	2	FOR USA, CAN
244	319-349	CORD BUSH	1	
245		NAME PLATE	1	
246	301-653	TAPPING SCREW (W/FLANGE) D4X20 (BLACK)	4	
247	323-642	SWITCH HANDLE (C)	1	
248	984-750	TAPPING SCREW (W/FLANGE) D4X16	1	
* 249	323-978	SWITCHING POWER SUPPLY	1	
* 249	322-911	SWITCHING POWER SUPPLY	1	FOR USA, CAN
* 249	324-322	SWITCHING POWER SUPPLY	1	FOR GBR (110V)
250	301-653	TAPPING SCREW (W/FLANGE) D4X20 (BLACK)	2	
251	323-645	SWITCH LEVER (A)	1	
252	323-634	SWITCH (A) (1P TYPE)	1	
254	323-688	SWITCH LABEL (B)	1	
255	323-687	SWITCH HANDLE (D) ASS'Y	1	INCLUD. 254
256	984-750	TAPPING SCREW (W/FLANGE) D4X16	1	
257	320-950	SWITCH (1P SCREW TYPE)	1	
* 258	323-983	INTERNAL WIRE (D)	1	

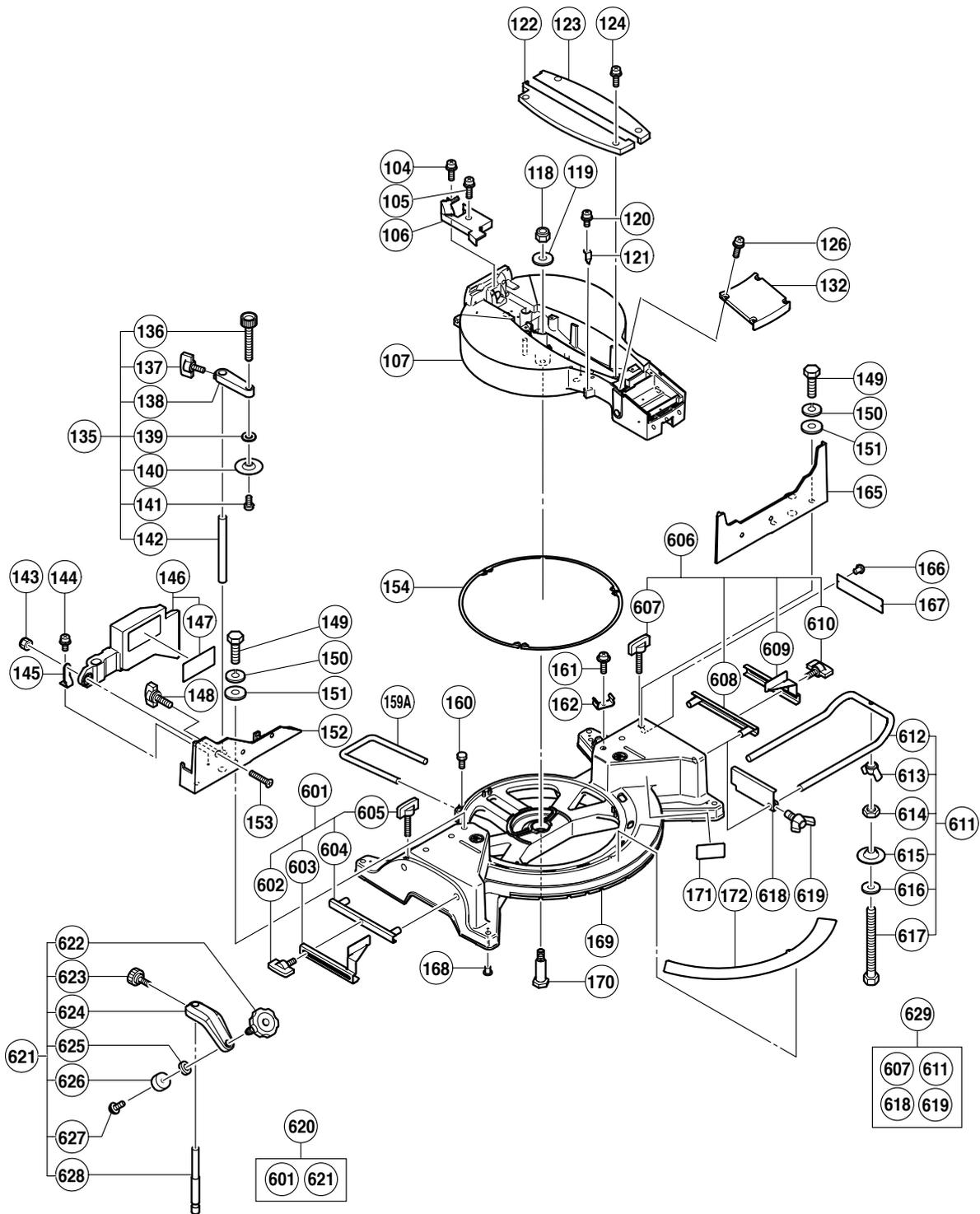
ELECTRIC TOOL PARTS LIST

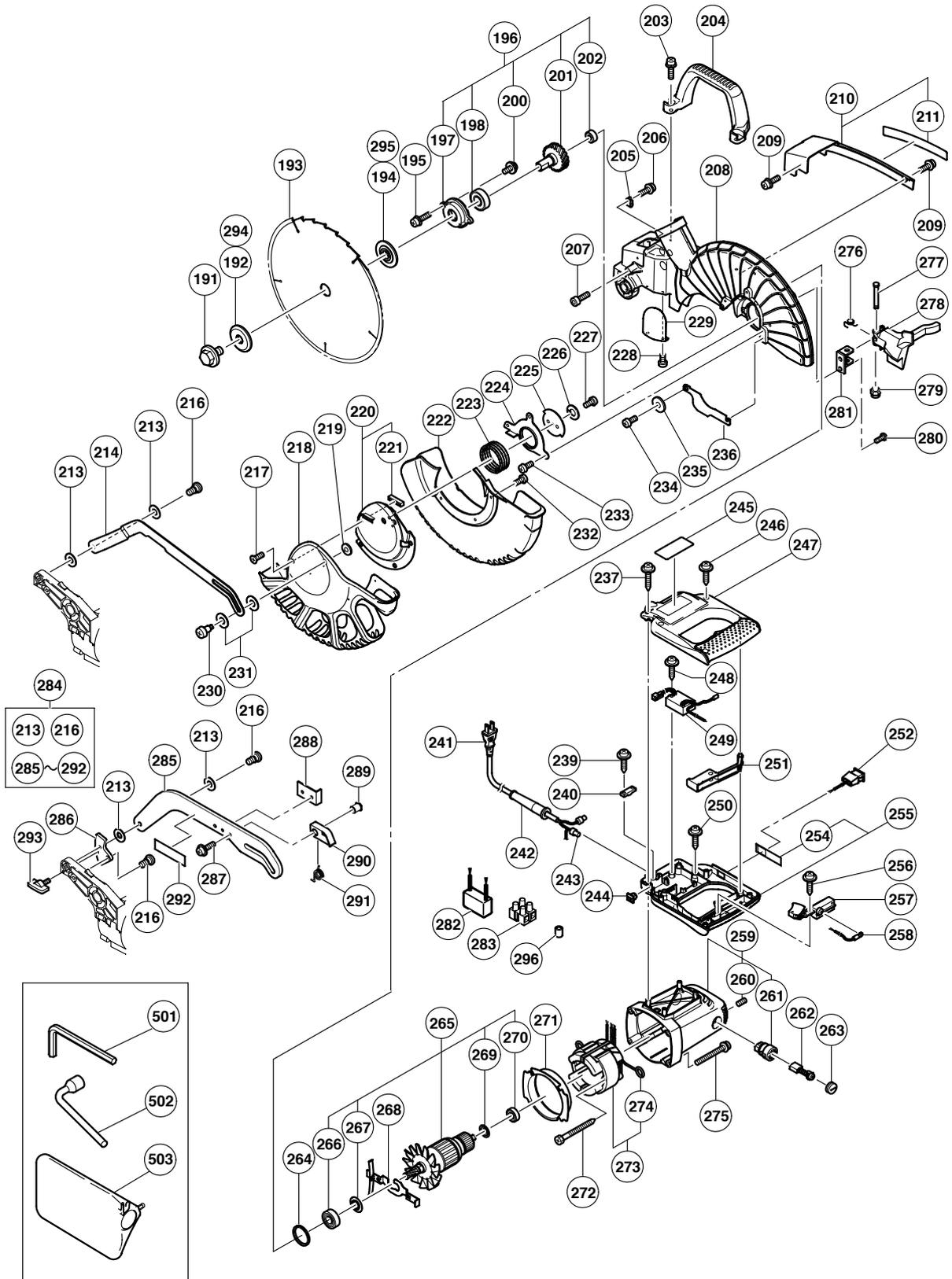
■ COMPOUND SAW
Model C 12FCH

2005 · 6 · 30

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PARTS

C 12FCH

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS
1	323-141	SPRING (B)	1	
2	323-137	LASER HOLDER (A)	1	
3	323-138	LASER HOLDER (B)	1	
4	949-900	ROLL PIN D3X14 (10 PCS.)	1	
5	323-142	SPRING (C)	2	
6	962-782	HEX. SOCKET SET SCREW M5X6	1	
7	949-531	SPLIT PIN D2X12 (10 PCS.)	1	
8	323-144	SPECIAL BOLT M5	1	
9	975-144	CABLE TIE	1	
10	323-139	LASER BASE ASS'Y	1	INCLUD. 11
11		CAUTION LABEL (A)	1	
12A	324-711	LASER MODULE (A) ASS'Y	1	INCLUD. 15
13	323-143	WASHER	2	
14	323-140	SPRING (A)	1	
15	323-136	LASER COVER	1	
16	323-208	MACHINE SCREW (W/WASHERS) M6X20 (BLACK)	1	
17	322-935	CLAMP LEVER	1	
18	323-665	BOLT (LEFT HAND) M10	1	
19	323-666	KNOB (A)	1	
20	323-597	GEAR BOX (C)	1	
21	304-043	MACHINE SCREW (W/WASHERS) M4X10 (BLACK)	1	
22	323-598	GEAR BOX (C) COVER	1	
23	323-599	PINION	1	
24	949-821	HEX. SOCKET HD. BOLT M5X16 (10 PCS.)	1	
25	949-454	SPRING WASHER M5 (10 PCS.)	1	
26	323-596	HINGE PLATE	1	
27	322-933	SHAFT (D)	1	
28	322-934	WASHER M16	1	
29	323-593	SHAFT (C)	1	
30A	323-663	HINGE	1	
39	307-956	SEAL LOCK HEX. SOCKET SET SCREW M6X10	1	
40	323-594	SLEEVE	1	
41	323-595	SPRING (A)	1	
42	323-684	LINER (D)	1	
43	302-518	STOPPER PIN ASS'Y	1	INCLUD. 44
44	984-528	O-RING (P-6)	1	
45	323-719	DUST GUIDE ASS'Y	1	INCLUD. 47-49
46	990-541	MACHINE SCREW (W/WASHERS) M5X16	2	
47	323-697	SCALE (B)	1	
48	322-963	DUST GUIDE HOLDER	1	
49	949-214	MACHINE SCREW M4X6 (10 PCS.)	1	
50	949-431	BOLT WASHER M5 (10 PCS.)	1	
51	949-454	SPRING WASHER M5 (10 PCS.)	1	
52	949-821	HEX. SOCKET HD. BOLT M5X16 (10 PCS.)	1	
53	323-664	GEAR (C) ASS'Y	1	INCLUD. 54
54	949-900	ROLL PIN D3X14 (10 PCS.)	1	
55	949-660	HEX. SOCKET HD. BOLT M6X20 (10 PCS.)	2	
56	323-683	LINER (B)	1	
57	949-221	MACHINE SCREW M4X20 (10 PCS.)	2	
58	949-423	WASHER M4 (10 PCS.)	2	
59	323-142	SPRING (C)	2	

PARTS

C 12FCH

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS
60	303-006	SPACER D4X10	2	
61	949-432	BOLT WASHER M6 (10 PCS.)	2	
62	323-662	BEVEL PLATE (B)	1	
63	323-661	BEVEL PLATE (A)	1	
64	323-659	COVER (A)	1	
65	303-409	NYLOCK BOLT M8X25	2	
66	935-196	MACHINE SCREW (W/WASHERS) M4X12 (BLACK)	2	
67	322-893	INDICATOR (B)	1	
68	304-043	MACHINE SCREW (W/WASHERS) M4X10 (BLACK)	1	
69	680-418	NYLON NUT M12	1	
74A	323-627	SPRING PLATE	1	
75	949-457	SPRING WASHER M8 (10 PCS.)	2	
76	949-655	HEX. SOCKET HD. BOLT M8X16 (10 PCS.)	2	
77	323-609	SPACER (A)	1	
78	307-635	MACHINE SCREW (W/SP. WASHER) M4X10	2	
79	323-680	SIDE HANDLE	1	
80	323-646	LASER HOLDER ASS'Y	1	INCLUD. 1-15
104	949-216	MACHINE SCREW M4X10 (10 PCS.)	1	
105	954-878	MACHINE SCREW (W/WASHERS) M4X16	1	
106	323-650	CORD COVER	1	
107	323-624	TURN TABLE	1	
118	975-348	NYLON NUT M8	1	
119	318-929	WASHER (F)	1	
120	304-043	MACHINE SCREW (W/WASHERS) M4X10 (BLACK)	1	
121	318-927	INDICATOR (A)	1	
122	323-648	TABLE INSERT (A)	1	
123	323-649	TABLE INSERT (B)	1	
124	990-541	MACHINE SCREW (W/WASHERS) M5X16	4	
126	993-539	MACHINE SCREW (W/WASHERS) M4X16	4	
132	323-693	MONITOR CASE (B)	1	
135	323-677	VICE ASS'Y	1	INCLUD. 136-142
136	323-678	KNOB BOLT	1	
137	301-806	WING BOLT M6X15	1	
138		SCREW HOLDER	1	
139	949-432	BOLT WASHER M6 (10 PCS.)	1	
140	302-532	VICE PLATE	1	
141	949-216	MACHINE SCREW M4X10 (10 PCS.)	1	
142	322-954	VICE SHAFT	1	
143	311-144	NYLON NUT M6	1	
144	304-043	MACHINE SCREW (W/WASHERS) M4X10 (BLACK)	1	
145	323-631	PLATE (C)	1	
146	323-630	SUB FENCE ASS'Y	1	INCLUD. 147
147		WARNING LABEL (H)	1	
148	301-806	WING BOLT M6X15	1	
149	949-678	BOLT M8X35 (10 PCS.)	4	
150	949-457	SPRING WASHER M8 (10 PCS.)	4	
151	949-433	BOLT WASHER M8 (10 PCS.)	4	
152	323-629	FENCE (B)	1	
153	323-685	FLAT HD. SCREW M6X30	1	
154	323-625	LINER (A)	3	
159A	322-910	HOLDER	1	

PARTS

C 12FCH

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS
160	949-610	BOLT M6X10 (10 PCS.)	1	
161	987-512	MACHINE SCREW (W/SP. WASHER) M5X16	1	
162	323-605	HOOK	1	
165	323-628	FENCE (A)	1	
* 166	949-510	RIVET D2.5X4.8 (10 PCS.)	2	FOR USA, CAN
* 167		WARNING LABEL (A)	1	FOR USA, CAN
168	323-606	BASE RUBBER	4	
* 169	324-651	BASE ASS'Y	1	INCLUD. 168, 171, 172
* 169	323-696	BASE ASS'Y	1	INCLUD. 166-168, 171, 172 FOR USA, CAN
170	323-626	SHAFT (B)	1	
* 171		CAUTION LABEL (D)	1	
* 171		CAUTION LABEL (C)	1	FOR USA, CAN
172	323-692	SCALE (A)	1	
191	988-101	BOLT (A) M10	1	
* 192	323-652	WASHER (B)	1	EXCEPT FOR EUROPE
* 193	323-522	TCT SAW BLADE 305MM-D25.4 HOLE-NT32	1	
* 193	324-268	TCT SAW BLADE 305MM-D30 HOLE-NT32	1	
* 193	324-269	TCT SAW BLADE 305MM-D25.4 HOLE-NT120	1	
* 194	323-651	WASHER (A)	1	EXCEPT FOR EUROPE
195	323-208	MACHINE SCREW (W/WASHERS) M6X20 (BLACK)	2	
196	323-639	SPINDLE ASS'Y	1	INCLUD. 197, 198, 200-202
197	323-641	BEARING HOLDER	1	
198	620-3VV	BALL BEARING 6203VVCMP2L	1	
200	304-043	MACHINE SCREW (W/WASHERS) M4X10 (BLACK)	2	
201	323-640	SPINDLE AND GEAR SET	1	
202	608-VVM	BALL BEARING 608VVC2PS2L	1	
203	323-208	MACHINE SCREW (W/WASHERS) M6X20 (BLACK)	2	
204	322-924	HANDLE	1	
205	980-523	NYLON CLIP	1	
206	935-196	MACHINE SCREW (W/WASHERS) M4X12 (BLACK)	1	
207	949-755	HEX. SOCKET HD. BOLT M6X16 (10 PCS.)	1	
208	323-638	GEAR CASE	1	
209	993-539	MACHINE SCREW (W/WASHERS) M4X16	2	
210	323-653	GEAR CASE COVER ASS'Y	1	INCLUD. 211
211	323-654	CAUTION LABEL (B)	1	FOR POSITION ADJUSTMENT OF LASER LINE
213	322-948	WASHER M7	2	
* 214	323-674	LINK	1	EXCEPT FOR EUROPE
* 216	322-950	SPECIAL SCREW M6	1	
* 216	322-950	SPECIAL SCREW M6	2	FOR EUROPE
217	318-363	FLAT HD. SCREW M4X10 (BLACK)	1	
218	323-698	PROTECTIVE COVER (B)	1	
219	949-454	SPRING WASHER M5 (10 PCS.)	1	
220	323-672	COVER PLATE (B) ASS'Y	1	INCLUD. 221
221	323-673	CUSHION	1	
222	323-667	PROTECTIVE COVER (A)	1	
223	323-671	RETURN SPRING	1	
224	323-669	COVER PLATE (A)	1	
225	323-670	COVER WASHER	1	
226	949-454	SPRING WASHER M5 (10 PCS.)	1	
227	949-236	MACHINE SCREW M5X10 (10 PCS.)	1	
228	304-043	MACHINE SCREW (W/WASHERS) M4X10 (BLACK)	1	

PARTS

C 12FCH

ITEM NO.	CODE NO.	DESCRIPTION	NO. USED	REMARKS	
229	322-926	LASER COVER (A)	1		
230	322-947	SPECIAL SCREW (C) M5	1		
231	322-938	WASHER M10	2		
232	949-215	MACHINE SCREW M4X8 (10 PCS.)	3		
233	323-040	MACHINE SCREW M5X10 (BLACK)	3		
*	234	323-040	MACHINE SCREW M5X10 (BLACK)	2	FOR EUROPE, USA, CAN, AUS
*	235	949-431	BOLT WASHER M5 (10 PCS.)	1	FOR EUROPE, USA, CAN, AUS
*	236	323-675	SPINDLE COVER	1	FOR EUROPE, USA, CAN, AUS
	237	307-028	TAPPING SCREW (W/FLANGE) D4X25 (BLACK)	2	
	239	984-750	TAPPING SCREW (W/FLANGE) D4X16	2	
	240	937-631	CORD CLIP	1	
*	241	500-234Z	CORD	1	(CORD ARMOR D10.7)
*	241	500-435Z	CORD	1	(CORD ARMOR D10.7) FOR GBR (230V)
*	241	500-461Z	CORD	1	(CORD ARMOR D10.7) FOR GBR (110V)
*	241	500-247Z	CORD	1	(CORD ARMOR D10.7) FOR FIN
*	241	500-453Z	CORD	1	(CORD ARMOR D10.7) FOR USA, CAN
*	241	500-439Z	CORD	1	(CORD ARMOR D10.7) FOR NZL
*	241	500-447Z	CORD	1	(CORD ARMOR D10.7) FOR LIB
*	241	500-456Z	CORD	1	(CORD ARMOR D10.7) FOR CHN
*	241	500-423Z	CORD	1	(CORD ARMOR D10.7) FOR SIN, MAL, UAE
	242	940-778	CORD ARMOR D10.7	1	
*	243	959-141	CONNECTOR 50092 (10 PCS.)	2	FOR USA, CAN
	244	319-349	CORD BUSH	1	
	245		NAME PLATE	1	
	246	301-653	TAPPING SCREW (W/FLANGE) D4X20 (BLACK)	4	
	247	323-642	SWITCH HANDLE (C)	1	
	248	984-750	TAPPING SCREW (W/FLANGE) D4X16	1	
*	249	323-978	SWITCHING POWER SUPPLY	1	
*	249	324-322	SWITCHING POWER SUPPLY	1	FOR GBR (110V)
*	249	322-911	SWITCHING POWER SUPPLY	1	FOR USA, CAN
	250	301-653	TAPPING SCREW (W/FLANGE) D4X20 (BLACK)	2	
	251	323-645	SWITCH LEVER (A)	1	
	252	323-634	SWITCH (A) (1P TYPE)	1	
	254	323-695	SWITCH LABEL (C)	1	
	255	323-694	SWITCH HANDLE (D) ASS'Y	1	INCLUD. 254
	256	984-750	TAPPING SCREW (W/FLANGE) D4X16	1	
	257	320-950	SWITCH (1P SCREW TYPE)	1	
*	258	323-983	INTERNAL WIRE (D)	1	
*	258	323-633	INTERNAL WIRE (A)	1	FOR USA, CAN
	259	322-914	HOUSING ASS'Y	1	INCLUD. 260, 261
	260	938-477	HEX. SOCKET SET SCREW M5X8	2	
	261	938-241	BRUSH HOLDER	2	
*	262	999-038	CARBON BRUSH (1 PAIR)	2	FOR 110V-120V
*	262	999-065	CARBON BRUSH (1 PAIR)	2	FOR 220V-240V
	263	945-161	BRUSH CAP	2	
	264	303-792	RUBBER RING	1	
*	265	360-684U	ARMATURE ASS'Y 110V-120V	1	INCLUD. 266, 267, 269, 270
*	265	360-710E	ARMATURE 220V-230V	1	
*	265	360-710F	ARMATURE 240V	1	
	266	620-2VV	BALL BEARING 6202VVCMP2L	1	
	267	980-700	DUST WASHER (B)	1	

