

Models No. ▶ BSR730

Description ▶ 190mm(7-1/2") Cordless Circular Saw

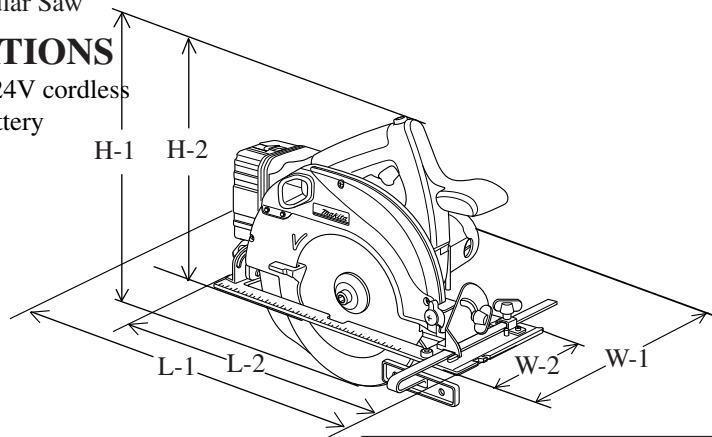
CONCEPTION AND MAIN APPLICATIONS

BSR730 is now released in Makita's new line-up of 24V cordless tools powered by our 24V Nickel-Metal Hydride battery with new charging system.

Its brief benefits and features are follows.

- * Equipped with powerful motor for more than 60mm cutting depth.
- * Equipped with riving knife.
- * Can be connected to vacuum cleaner.
- * Max. 50° bevel capacity with positive stop at 45°.
- * Ensures long time operation with 3.0Ah battery.

The variations of this model are as follows.



Model No.	Battery	Charger	Plastic case
BSR730SH	B2417 (1.7Ah)	DC24SA	Yes
BSR730SF	B2430 (3.0Ah)	DC24SA	Yes

Dimensions : mm (")	
Width (W-1)	213 (8-3/8)
Width (W-2)	150 (5-7/8)
Height (H-1)	281 (11-1/8)
Height (H-2)	210 (8-1/4)
Length (L-1)	378 (14-7/8)
Length (L-2)	340 (13-3/8)

► Specification

Battery	Voltage (V)	24
	Capacity (Ah)	1.7 / 3.0
	Energy capacity (Wh)	40.8 / 72.0
Saw blade	Diameter : mm (inch)	190 (7-1/2)
	Hole diameter : mm (inch)	30 (1-3/16)
Cutting capacity: mm (inch)	90°	66 (0 - 2-5/8)
	45°	47 (0 - 1-7/8)
	50°	42 (0 - 1-5/8)
No load speed (min-1=rpm)		2,400
Net weight : kg (lbs)		4.6 (10.1) including battery B2417.

► Standard equipment

- * Battery B2417..... 1 pc. (for Mod.BSR730SH)
- * Battery B2430..... 1 pc. (for Mod.BSR730SF)
- * Charger DC24SA 1 pc.
- * Tipped saw blade 190mm 1 pc.
- * Guide rule 1 pc.
- * Hex. wrench 5 1 pc.
- * Dust nozzle 1 pc
- * Plastic carrying case..... 1 pc.

< Note > The standard equipment for the tool shown may differ from country to country.

► Optional accessories

- * Carbide tipped saw blade 190mm
- * Carbide tipped saw blade 185mm
- * Battery B2417
- * Battery B2430
- * Charger DC24SA

BSR730

24V Nickel-Metal Hydride Battery with new charging system

Model BSR730SF comes with a Battery B2430 (3.0Ah).
Model BSR730SH comes with a Battery B2417 (1.7Ah).

Dust Extracting port

possible to connect to vacuum cleaner by using Dust Nozzle (standard equipment).

Ergonomically Designed Handle

Soft rubber grip for more comfort and positive control

Lock-off Button

With Electric Brake

With Shaft Lock

Long-life DC Motor with externally accessible brushes

More powerful than Model 5621RD

Rear Angular Guide

Riving Knife

for prevention of kickback

190mm(7-1/2") Carbide Tipped Saw Blade

Max. Cutting depth: 66mm(2-5/8") at 90°

Lightweight but durable Aluminum Base

50° Bevel Capacity with positive stop at 45°

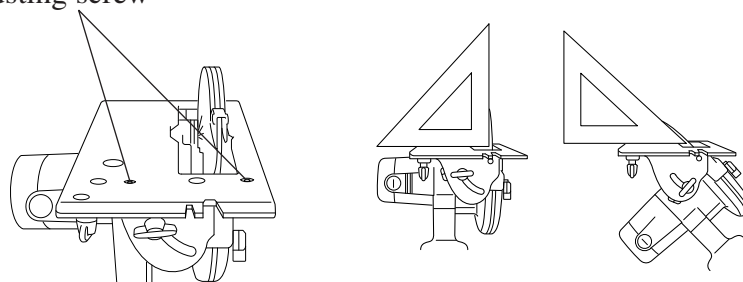
Guide Rule (standard equipment)

Possible to adjust for accuracy of 90° and 45° cut.

This adjustment has been made at the factory.

However, if necessary, adjust the adjusting screws with a screwdriver while inspecting 90° or 45° the blade with the base using a triangular rule etc.

Adjusting screw



Specifications		Model No.	MAKITA	
			BSR730	5621RD
Battery	Voltage (V)		24	18
	Capacity (Ah)		1.7 / 3.0	2.0 / 2.2
	Energy (Wh)		40.8 / 72	36 / 39.6
Equipped motor			D35-35	D35-35
Blade diameter : mm (")			190 (7-1/2)	165 (6-1/2)
Max. cutting capacity	at 90° : mm		0 - 66	0 - 54
	at 45° : mm		0 - 47	0 - 38
	at 50° : mm		0 - 42	0 - 34
No load speed : (min -1= rpm)			2,400	2,600
Material of the base plate			Aluminum	Aluminum
Externally accessible brush			Yes	Yes
Rear angular guide			Yes	No
Net weight :Kg (lbs)			4.6 (10.1)	3.8 (8.4)

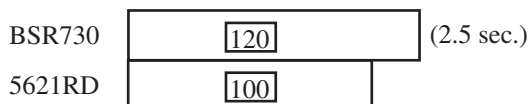
Comparison chart

Cutting speed

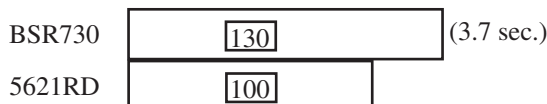
Numbers in the chart below are relative values when setting 5621RD 's capacity as 100.

← Slow Fast →

Work piece : Spruce 2 x 10



Work piece : Douglas fir 50 x 300mm



Work volume per single charge

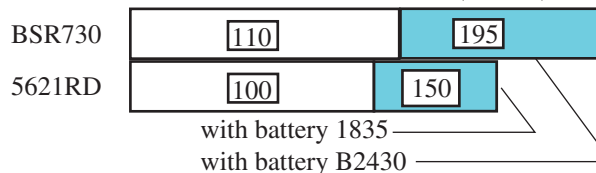
Numbers in the chart below are relative values when setting 5621RD 's capacity as 100.
The 5621RD is equipped with 2.0 Ah battery.



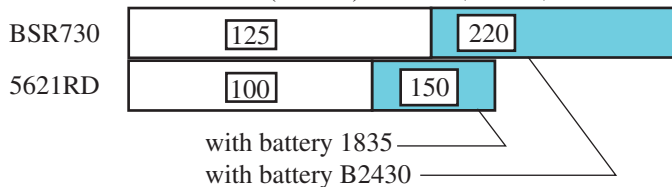
: Whole capacity when the machine is equipped with 3.0 Ah battery.

← Less More →

(51 cuts) (90 cuts)



(34 cuts) (60 cuts)



< 1 > Lubrication

Apply MAKITA grease N No.1 approx. 8g into the gear housing section of blade case.

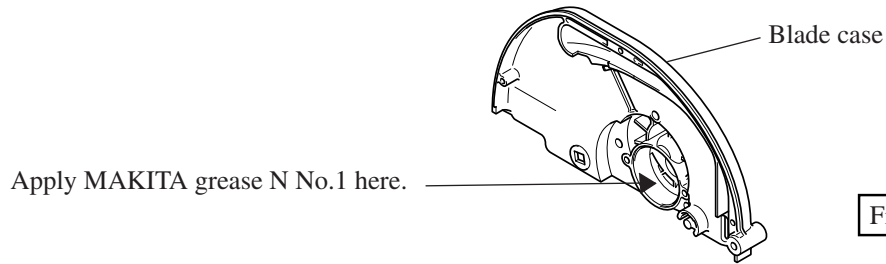


Fig. 1

< 2 > Disassembling

(1) Removing base from the motor unit

Base can be removed by unscrewing the following screws.

- * 3 countersunk head screws M5x8 : Holding angular plate
- * 2 countersunk head screws M5x8 : Holding depth guide complete

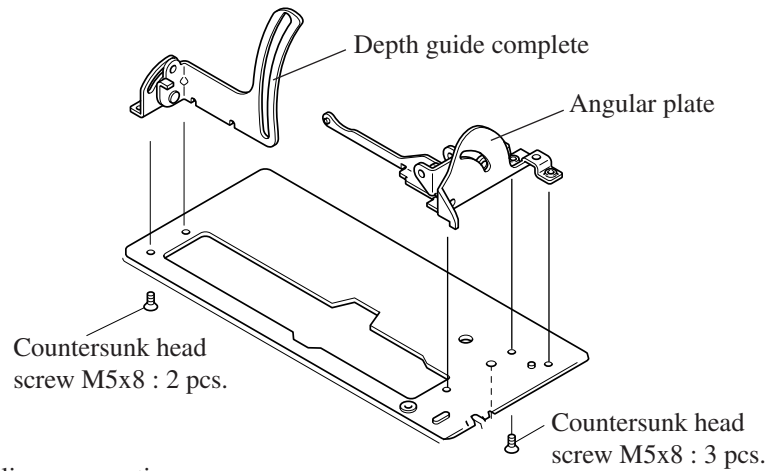


Fig. 2

(2) Disassembling gear section

1. Loosen the lever 54 and move the base complete down to the possible of minimum cutting depth.

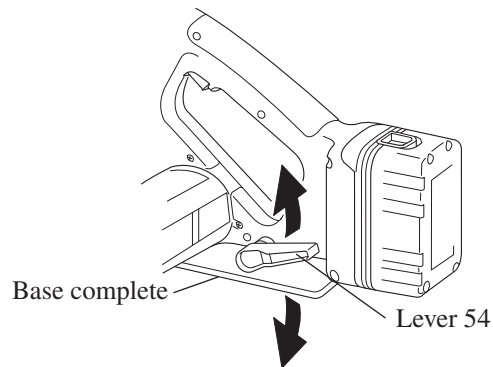


Fig. 3

2. Detach outer flange 45, saw blade and inner flange 45 by unscrewing hex socket head bolt M6x20.

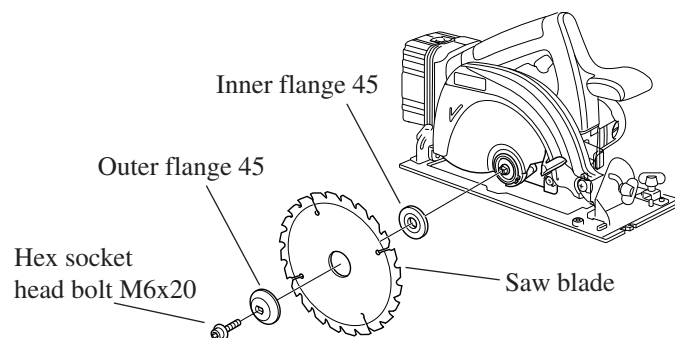


Fig. 4

3. Detach blade case cover, tension spring 4 and retaining ring S-40.
4. Detach safety cover.

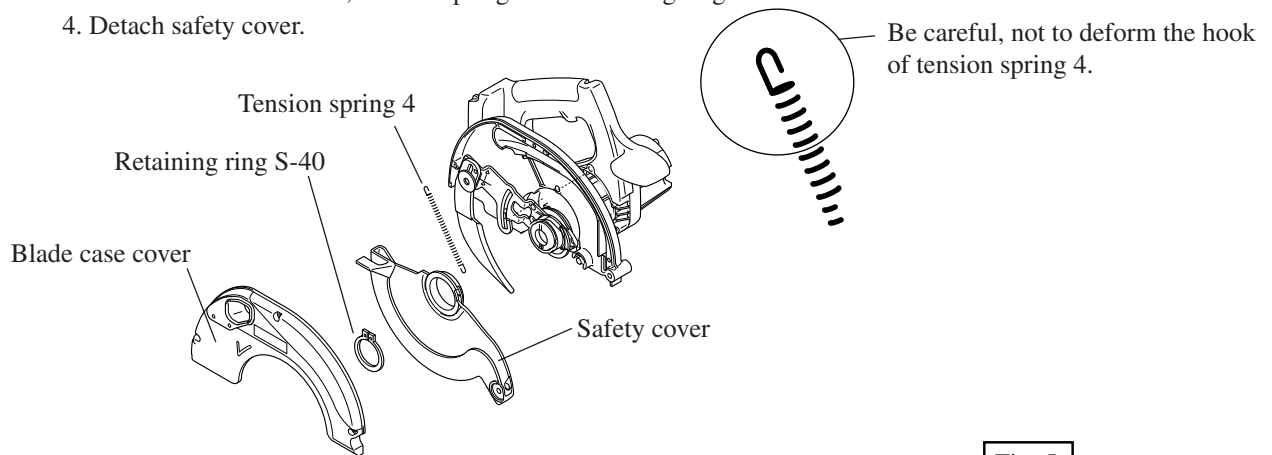


Fig. 5

5. Detach ring spring 12
6. Detach lever 54 and unscrew hex nut M8 from cap square neck bolt M8x98.
7. And remove cap square neck bolt M8x98 from motor unit.

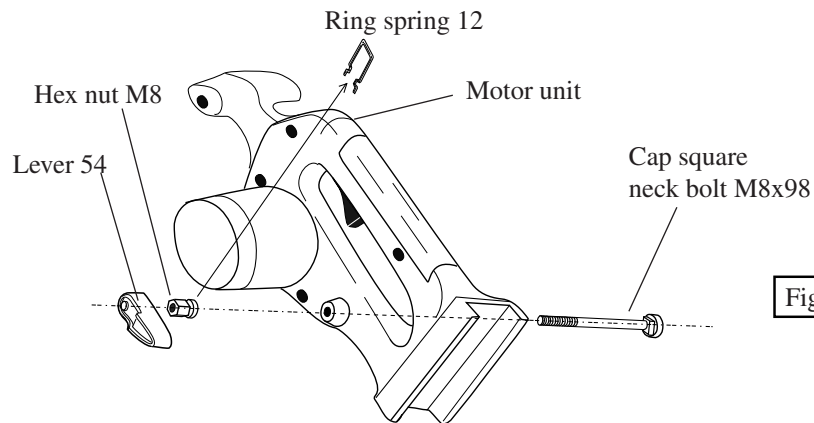


Fig. 6

8. Move the base further down, and then, detach riving knife holder
9. Detach bearing box from blade case by unscrewing 2 countersunk head screws M5x16.

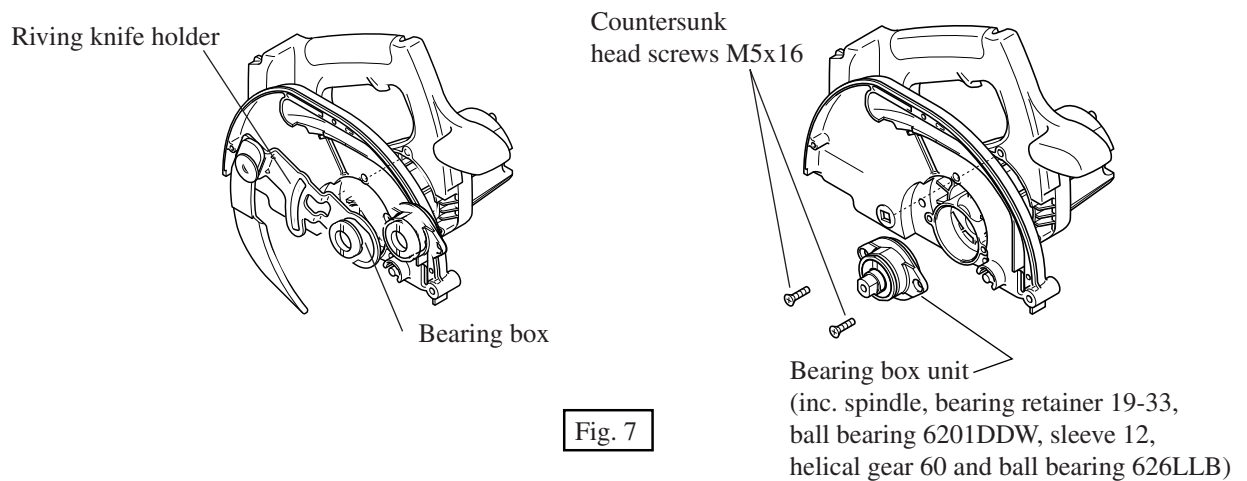


Fig. 7

10. Detach bearing retainer 19-33 and ball bearing 626LLB from bearing box.
- < Note > Remove bearing retainer 19-33 by turning it clockwise.

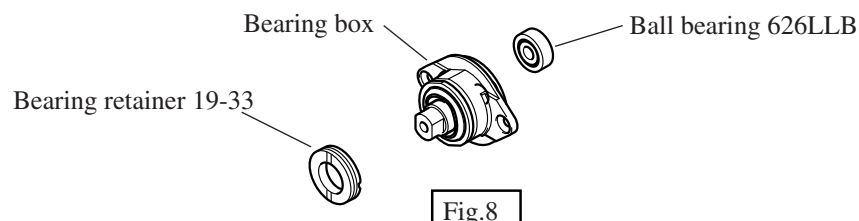


Fig.8

11. Put the bearing box on the jig. Setting No.1R026 pipe on the end of spindle, press it with arbor press until the rip of the pipe reaches helical gear 60.

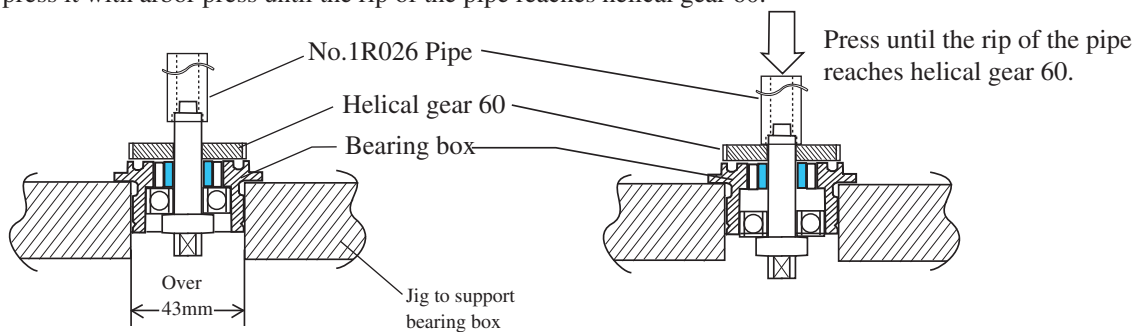


Fig. 9

12. Setting No.1R234 on the end of spindle, press it with arbor press.

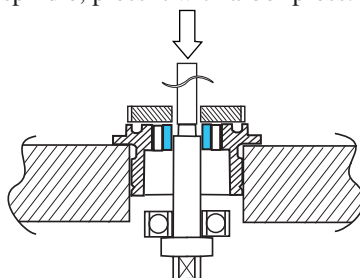


Fig. 10

< 3 > Assembling

- (1) Mounting thickness ring

Insert thickness ring between safety cover and bearing box.

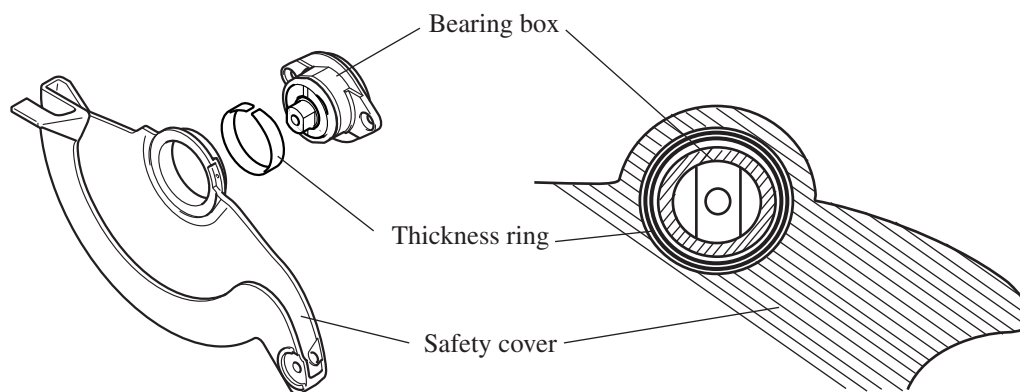


Fig. 11

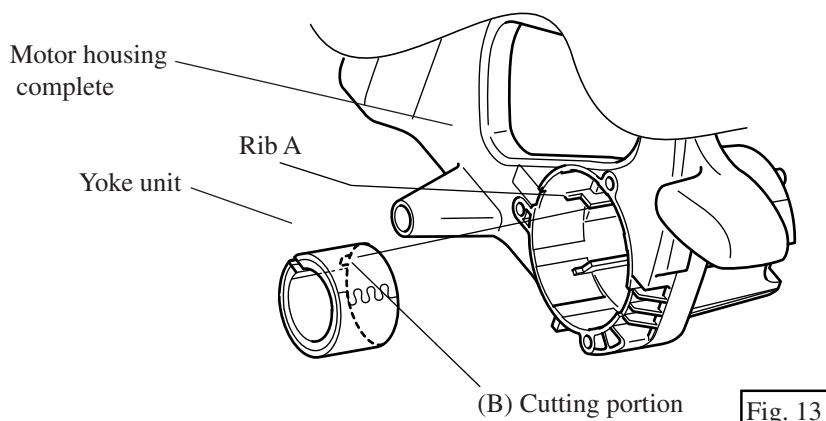
- (2) Installing tension spring 4

Install tension spring 4 as illustrated in FIG.12A.

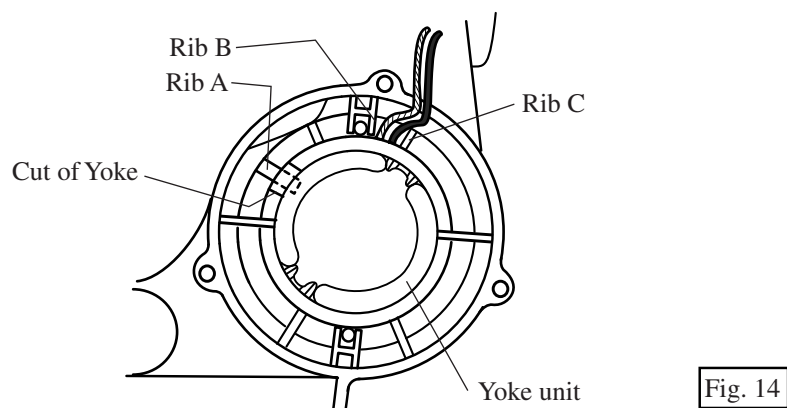
Blade case side		Safety cover side	
* Correct installation	* Wrong installation	* Correct installation	* Wrong installation
<p>FIG.12A</p>	<p>FIG.12B</p>	<p>FIG.12A</p>	<p>FIG.12B</p>

(3) Installing yoke unit and passing lead wires

1. Insert yoke unit into motor housing complete, with aligning (B) to rib A of the motor housing complete.



2. Set lead wires between rib B and C, after installing the yoke unit.



(4) Installing armature

Armature may be pulled into motor housing complete with strong magnet force of yoke unit.
So, be careful, not to pinch your finger in this process when installing armature.

► **Circuit diagram**

