

For Models ▶ 2106

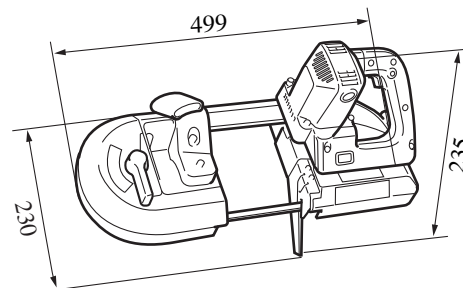
Description ▶ Portable Band Saw

CONCEPTION AND MAIN APPLICATIONS

Model 2106 is a portable band saw suitable for cutting pipe and light weight steel, etc.,

and it's belief benefits are:

Light weight and wide range of cutting capacities from 115mm to large diameter material.



► Specifications

Voltage (V)	Current(A)	Cycle(Hz)	Continuous Rating		Max. output(W)
			Input(W)	Output(W)	
100	7.5	50/60	710	430	800
115	6.5	50/60	710	430	800
200	3.8	50/60	710	430	800
220	3.4	50/60	710	430	800
230	3.3	50/60	710	430	800
240	3.1	50/60	710	430	800

(Note) Model with 115V, 6.5/4.5A, 710/490W (high/low) is planed to be shipped for North America and Canada.

No load speed	Blade peripheral velocity; 80m/min. at high, 60m/min. at low speed
Driving shank (LxWxH)	Band saw blade 1140L x 13W x 0.5D (mm)
Max. cutting capacity	Round material; 115mm, Square material; 115x115mm (75x110mm when stand is used.)
Net weight	5.5kg (12.1lbs)
Power supply cord	2.5m (8.2ft)

► Standard equipment

Band saw blade 13-1140(SK, 18 teeth/inch)

Set accessories (Triangle scale, hex. Wrench-4, hex. Wrench-5)

Wax

► Optional accesories

Band saw blade 13-1140 (SK 14, 18, 24 teeth/inch, SKH 14, 18, 24 teech/inch)

Portable band saw stand (chain vice type)

► Features and benefits

1. Wide range of cutting capacity up to 4 inch pipe (outer diameter 115mm)
2. 5.5kg light weight improves workability.
3. Speed can be changed by two steps and peripheral velocity is variable depending on material.
4. Tension load to the blade can be easily set by the lever and the blade will be replaced quickly.
5. Large front grip and comfortable handle shape improve operability. Cab-tire cord is coming out from the side so as not to disturb workability.
6. Optional stand enables the machine to be fixed.

► Capacity

Material and cutting speed (lightly pressing material by holding with hands)

Band saw blade		Cut material	Peripheral velocity	Load current(A)	Cutting speed (min)
Material	No. of teeth (teeth/inch)				
SK	18	Steel pipe (outer dia. 54mm, 5mm thick)	L	3.4~3.7	57
			H	4.3~4.5	52
		Steel pipe (outer dia. 115mm, 5mm thick)	L	4.3~4.6	111
SKH	18	Stainless pipe SUS430 (outer dia. 50mm, 1.5mm thick)	L	3.4~3.7	20

Comparison of cutting speed with other models

Material was a structure steel. (STKM13A, outer dia. 50.8mm, 3.5mm thickness)

All unspecified blade are SK18 teeth/inch (Makita).

Model & blade		Peripheral velocity	Normal cutting (material's own weight when stand is used)		Heavy cutting (pressing material when stand is used)	
			Load current (A)	Cutting speed (min)	Load current (A)	Cutting speed (min)
2106		L	3.4~3.9	51	4.2~4.9	39
		H	4.0~4.5	36	4.5~5.5	30
	SKH 18 teeth	L	3.5~4.0	41	3.8~4.5	30
		H	4.2~4.6	29	4.2~5.0	22
2106with stand		L	3.0~3.2	90	4.3~4.7	40
		H	3.9~4.0	70	4.8~5.0	30
	SKH 18 teeth	L	3.2~3.4	58	4.2~4.4	31
		H	3.9~4.0	41	4.6~4.8	22
Hitachi CB10SA with stand	SKS(Hitachi) 18 teeth		4.0~4.4	50	4.5~5.0	41
			4.3~4.6	45	4.8~5.0	39
Metabo PB4478 (115V) with stand		L	3.3~3.5	47	3.7~4.4	36
		H	4.1~4.3	40	4.5~5.4	24
		L	3.0~3.1	74	3.3~3.4	48
		H	3.8~4.0	68	4.2~4.4	46
Milwaukee 6230 (120V) with stand		L	5.1~6.4	57	6.7~7.3	35
		H	5.6~6.1	29	6.5~7.9	20
		L	4.9~5.0	126	6.0~6.3	71
		H	5.0~5.1	51	5.5~5.8	32

(Note) Since Milwaukee is a variable-speed type, test was conducted with following peripheral velocity:

L; 50m/min., H; 92m/min.

[Reference]

JR3001	Blade No.22	4.0 to 5.0	44	4.5 to 5.5	30(rotate to cut)
--------	-------------	------------	----	------------	-------------------

Superiority of portable band saw comparing to reciprocating saw

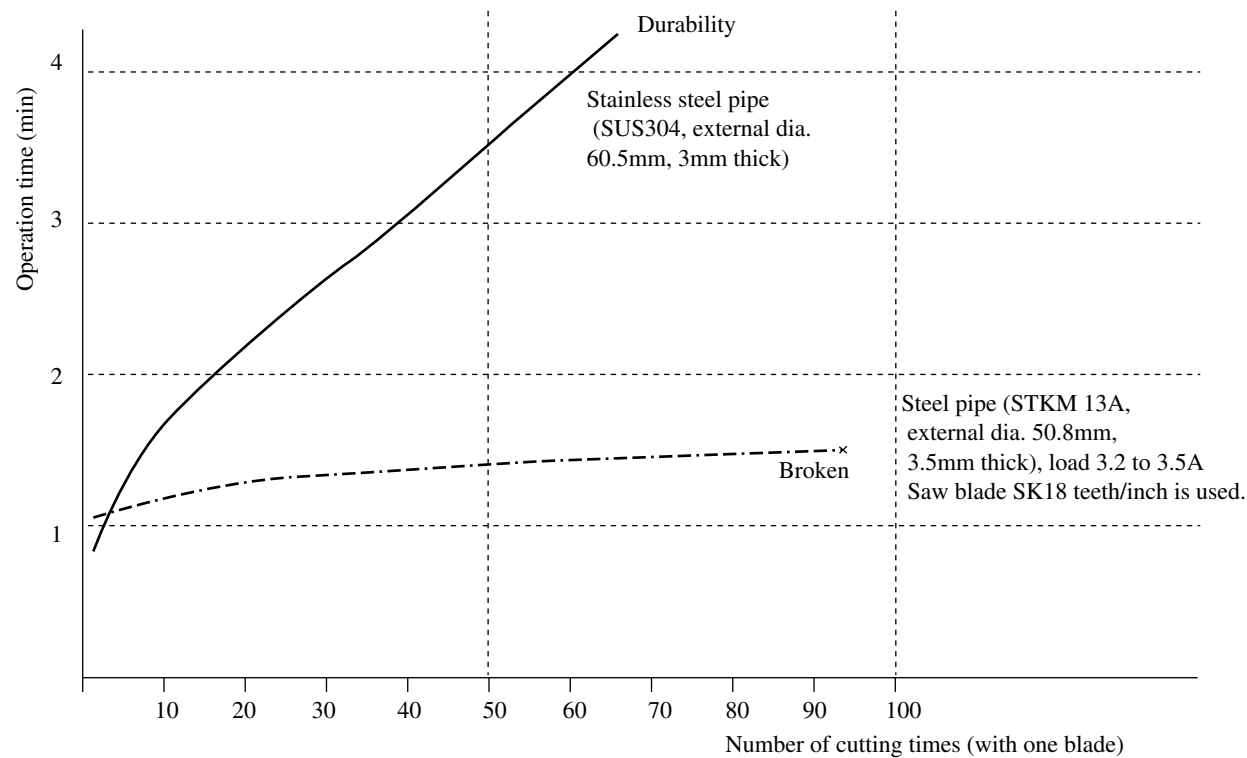
More quiet with less noise

Easy operability

Easy cutting without heavy force

Longer blade durability

Durability of saw blade
Cutting with material's own weight by using a stand

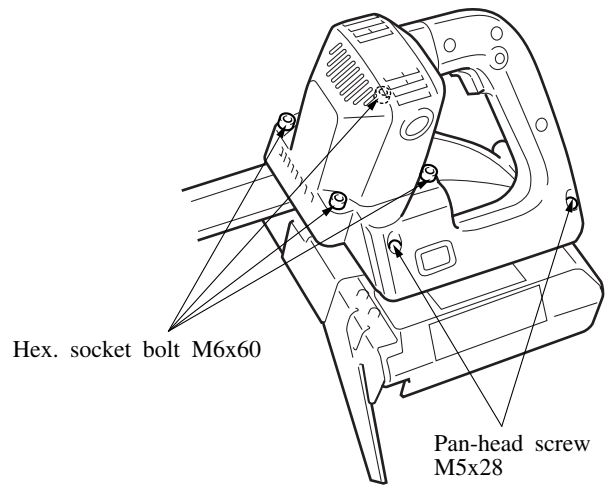


The blade has the same durability as Milwaukee's.

► Repair

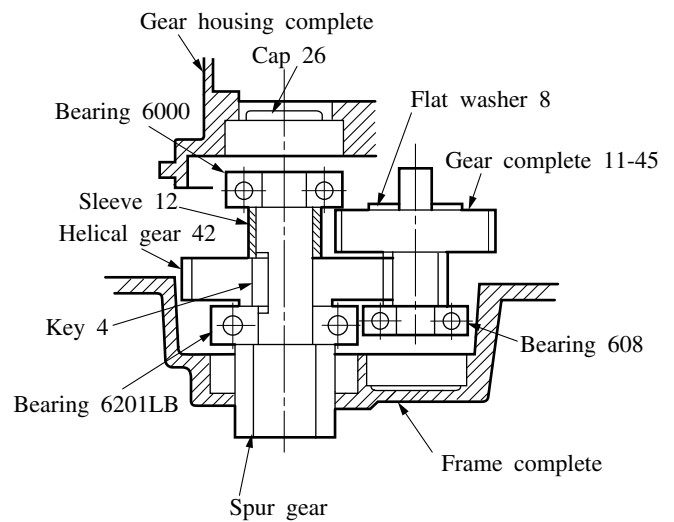
1. Replacement of armature

- (1) Remove carbon brush, four hex. socket bolts that secures motor housing, and two pan-head screw that fixes handle on the frame.
- (2) Remove motor housing together with handle from the gear housing, and armature can be removed.
- (3) Assemble with a reverse order of disassembly. Do not forget to attach baffle plate.



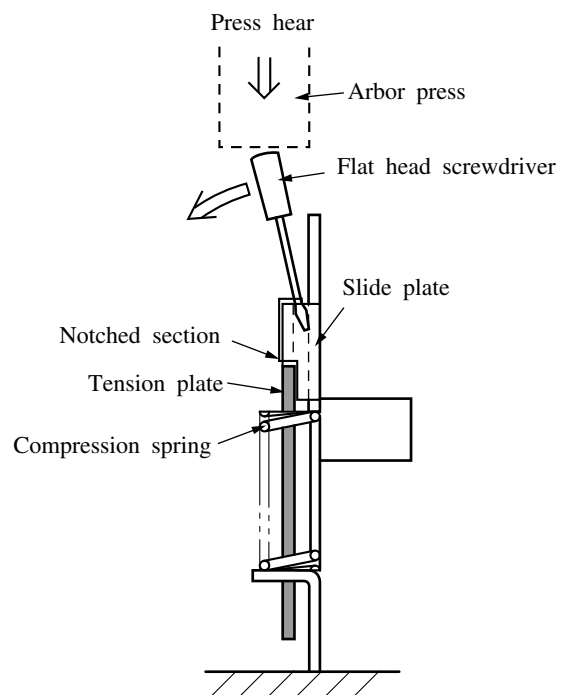
2. Replacement of gear

- (1) Remove bolts and screws as same procedures as for replacement of armature, and remove gear housing to pull out gears.
- (2) For assembling the gears, engage the gears and insert them together into a frame as shown in the right figure.
- (3) Replenish grease and check that flat washer 8 is mounted on gear complete and that cap 26 is mounted on gear housing. Then replace gear housing.



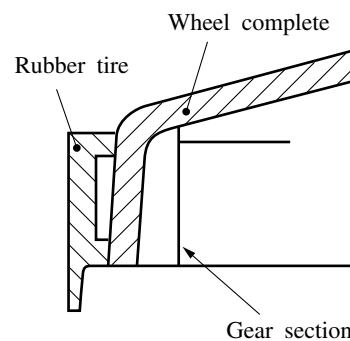
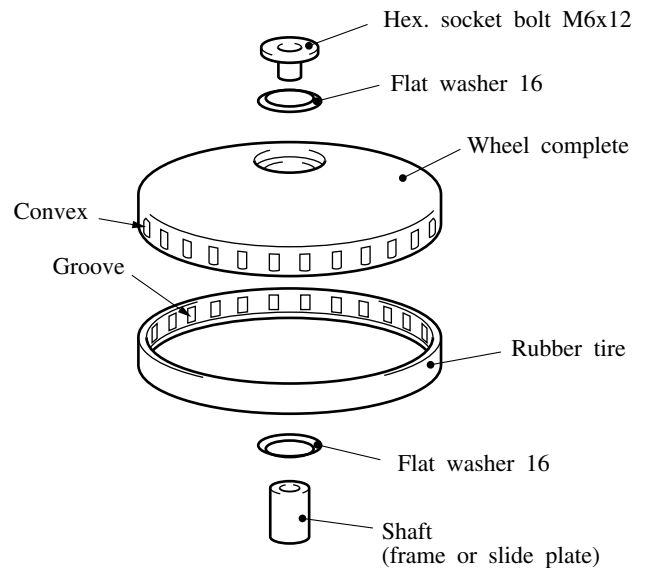
3. Replacement in tension section

- (1) For disassembly of slide plate and tension plate, press tension plate with an arbor press as shown in the right figure.
- (2) Insert flat-headed screwdriver between slide plate and tension plate, and press it until tension plate comes out of the notch of a slide plate.
At this time slowly pull up the arbor press.
- (3) For assembly, insert spring into the tension plate and press the arbor press so that the tension plate comes into the guide hole of the slide plate.
Press the arbor press to the notched section, and the slide plate will be set naturally.
wheel complete and washer in a row and fix them with a hex. socket bolt.



4. Replacement of rubber tire and wheel complete

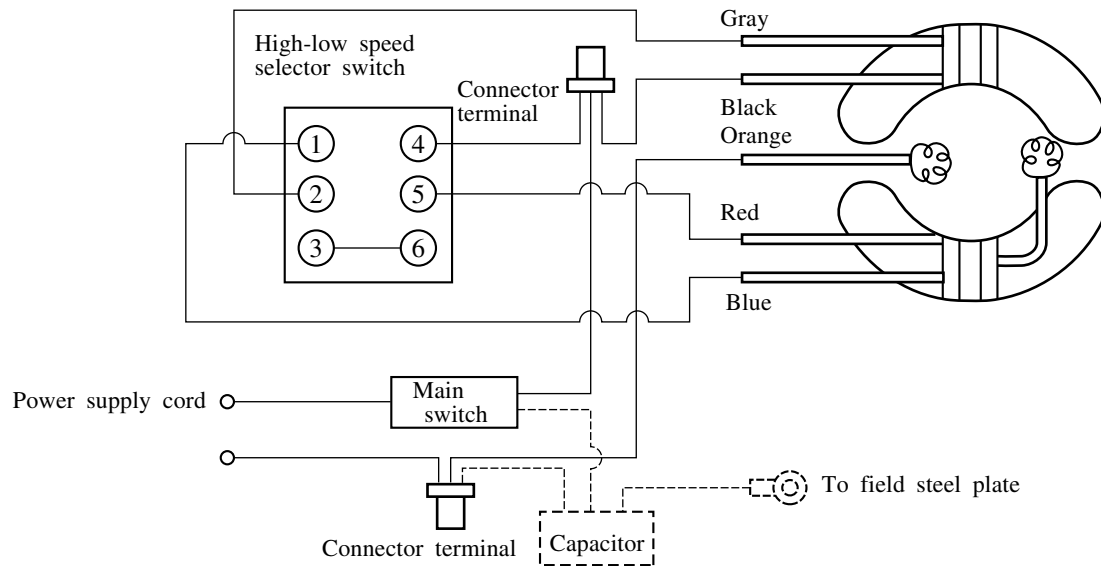
- (1) Pull out wheel complete by removing hex. socket bolt that secures the wheel complete.
- (2) Check that there is no abnormalities in the gear section of the wheel complete on the drive side. If broken teeth or abnormal wear is found, replace the gear with a new one. (Driven gear can be used for drive gear.)
- (3) Remove rubber tire from the wheel complete.
- (4) Wipe oil or dirt off the peripherals of the wheel complete, replace new rubber tire.
At this time mate convex of the wheel complete and the groove of the rubber tire mutually.
- (5) Remove dirt on the shaft and on the metal gear section.
- (6) Replenish grease to the drive side gear. (Makita grease G No.2) In the case of a new gear, coat about 16g grease on the whole of the gear.
- (7) Replenish oil to the shaft and assemble washer, wheel complete and washer in a row and fix them with a hex. socket bolt.



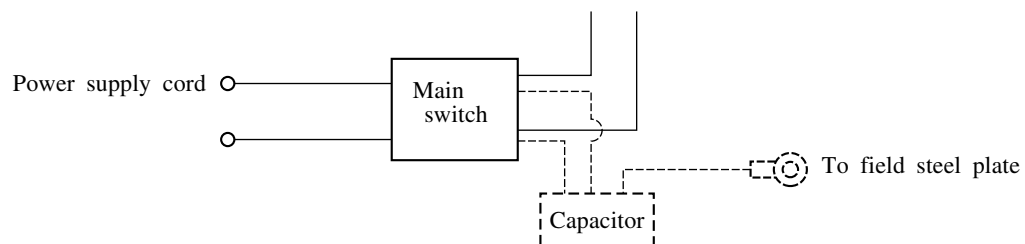
► Wiring diagram

General specification: Wirings of field lead wires are different depending on types of voltage.
Colors of lead wires are all the same.

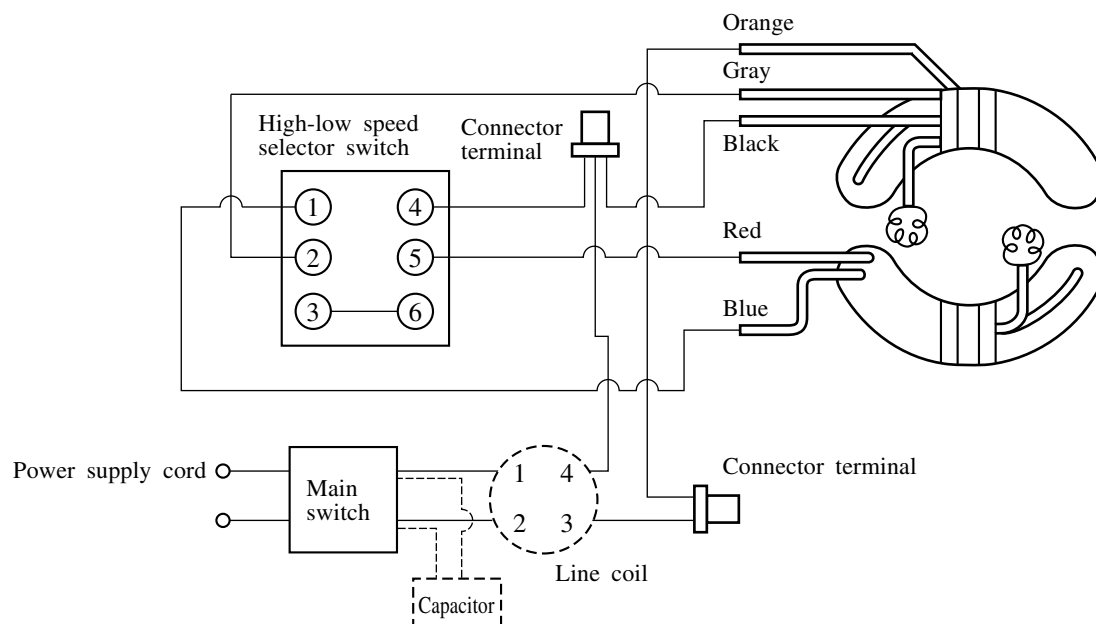
a) Single pole switch



b) Switch with relay terminal



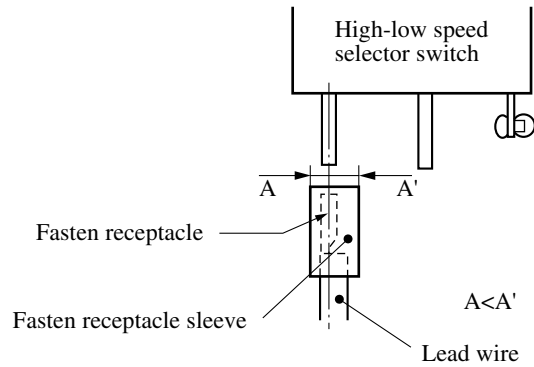
Noise prevention measures for countries (Italy, Germany, France, Netherlands, Austria, England)



(Notice)

1. Layout of main switch, capacitor and line coil is different depending on specifications for each country.
2. When fasten-receptacle is mounted on high-low speed selector switch, fasten-receptacle sleeve should incline inward as shown in the figure.

(Direction is not specified to center two pieces.)



► Optional accessories

Portable band saw stand (chain vice type) enables high precision cutting as a fixed machine.

