

**For Models** ▶ 6221D

**Description** ▶ 9.6V CORDLESS DRIVER DRILL

## CONCEPTION AND MAIN APPLICATIONS

This model has the same specification as the 6220D (M641D) model except the battery changed to 9.6 V (Battery 9100). Other specifications are same as the 6220D mode.

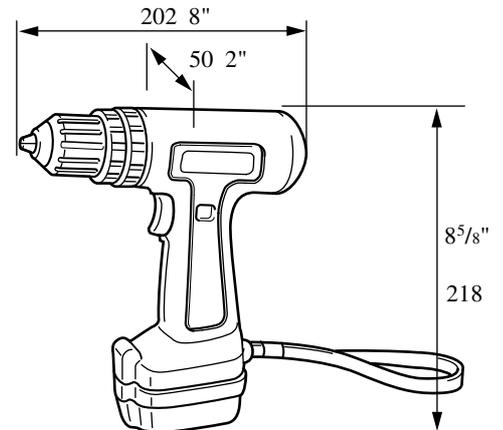
Although the gear speed change function is not equipped, this is the low price model with the advantages of small size, light weight, non-step variable speed change with the "five step clutch + drill" selector switch, and high power in addition to 9.6V driving power.

The 6221D is the model with the battery less charger.

The 6221DW is the model of the 6221D combined with the boosting charger model DC9700, and comes with the plastic case.

The M642DW is the sister model of the 6221DW intended for the home appliance supply centers. The M642D model has the natural green color housing.

The M642D only will not be available.



### ► Specifications

<b>Voltage</b>	9.6V
<b>Rotation</b>	0-700/min.
<b>Weight</b>	1.4kg
<b>Chucking capacity</b>	0.8mm(1/32")~10mm(3/8")
<b>Drilling capacity</b>	10mm (3/8") for iron material and 15mm (9/16") for wood material
<b>Screw fastening capacity</b>	Wood screw 5.1mm x 35mm (3/16" x 1 3/8") Small screws and nuts 6mm (1/4")
<b>Max. tightening torque</b>	Approx. 80kg•Ecm (5.8ft•Elbs)

### ► Standard equipment

Phillips bit 2-45 ----- 1pc.

## ► Optional accessories

Battery 9100, Battery 9101, Battery 9101A, and Battery 7100

Drills 1.5, 2, 3, 4, 5, and 6

Wood working drills 9, 12, and 15

Slotted bit 5-45, 5-82, 6-70, 6.35-45, 8-45, & 8-70

Phillips bit 1-65, 2-45, 2-65, 2-82, 2-110, 2-150, 3-45, 3-65, & 3-110

Socket bit 7-55, 8-55, and 10-55

Buff 125

Rubber pad assembly

Wool bonnet 100

Boosting charger DC9700

9 minutes quick charger DC1209, boosting charger DC1201, & 12V boosting charger for automobile use DC9112

## ► Features and benefits

### Small and light

Compact size of 202mm in the entire length and 1.4kg in weight.

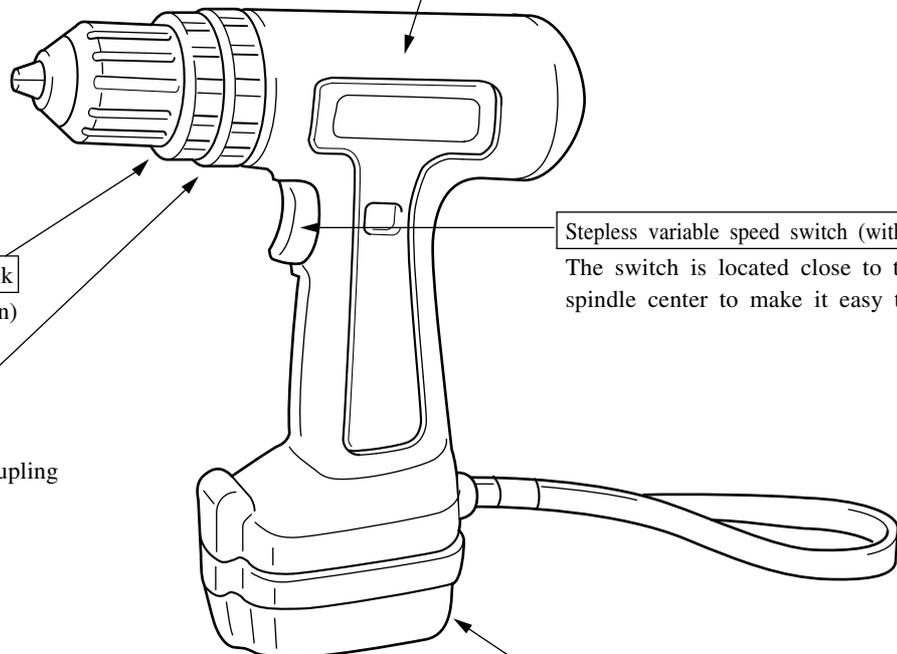
Max. torque 80 kgf•Ecm

10mm keyless drill chuck  
(less the locking function)

Tightening force.  
5 step clutch + direct coupling

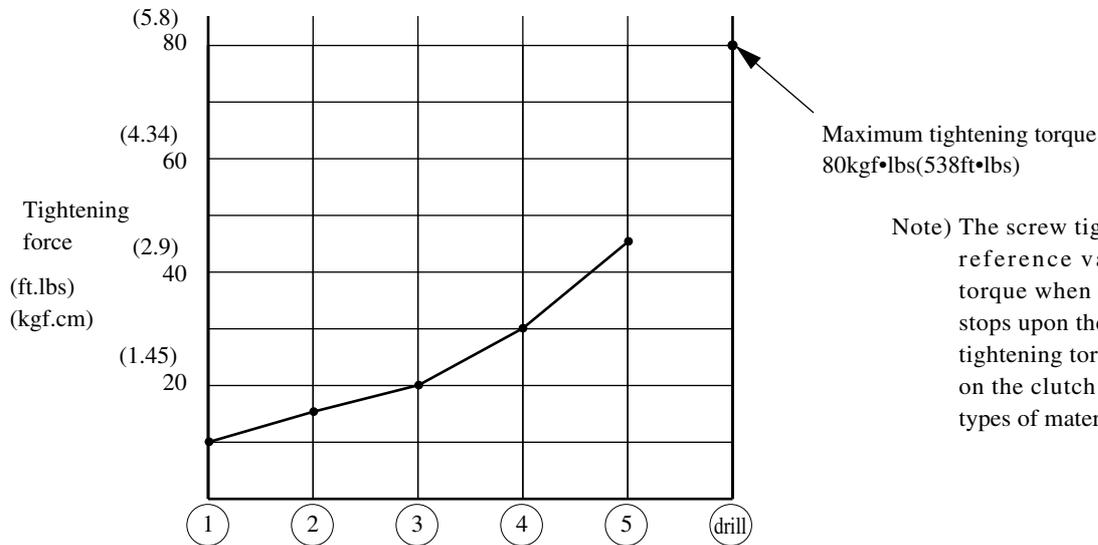
Stepless variable speed switch (with the brake)  
The switch is located close to the spindle center to make it easy to operate.

Battery 9100 is equipped.



## ► Capacity

1. Adjusting positions of the tightening torque adjusting ring and tightening torque at each position (The positions ① to ⑤ represent the screw tightening torque with the clutch actuated and torque at the output shaft in drilling with the motor locked). The torque are just for your reference.



2. Working efficiency

Ⓢ Working time comparison with the 6220D model in screw tightening and drilling (iron and wood materials).

Type of work	Material	Working time		Efficiency ratio (a)/(b)
		(a)6221D	(b)6221D	
Wood screw (3/16" x 1 1/4") 4.1mm x 32mm	Lauan	8.0sec.	9.0sec.	0.89sec.
Iron (1/4") 6.5mm	Cold rolled steel sheet 1.6mm(1/16")thick	20sec.	26sec.	0.77sec.
Wood (1/2") 12mm	(1") Lauan (thick:25mm)	5.2sec.	6.5sec.	0.80sec.

3. Quantity of works completed

Ⓢ The number of screws fastened and holes drilled per charge (Reference data)

	Wood screw size	Material	Number of screws fastened		Drill diameter	Material	Sheet thickness	Number of holes drilled	
									Wood screw
6.5mm									
3/16" 13/16" 4.5mmX20mm	450pcs.	Wood working drill	3/8"	Lauan	1" 25mm	350pcs.			
3/16" 13/8" 5.1mmX35mm			9mm				100pcs.		
				15mm					

## ► Repair

Same as for the 6220D

## ► Wiring diagram

Same as for the 6220D