# **T**ECHNICAL INFORMATION

Models No. ► 9910

Description ► 76mm Belt Sander

CONCEPTION AND MAIN APPLICATIONS

Model 9910/9911 are new compact belt sanders using
76mm x 457mm(3"x18") abrasive belt. Their brief benefits are;
Highest capacity at sanding and dust-collection among the same
class sanders.
*Variable speed control by dial for operator's needs
(Model 9911 only)

262 (10-3/8")   141 (5-1/2")   132 (5-1/4")
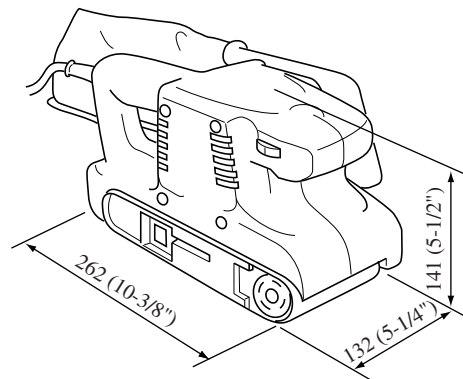
► **S**pecifications

Voltage (V)	Current (A)	Cycle (Hz)	Continuous Rating (W)		Max. Output(W)
			Input	Output	
100	6.8	50/60	650	200	640
120	5.6	50/60	650	200	640
220	3.0	50/60	650	200	640
230	3.0	50/60	650	200	640
240	2.9	50/60	650	200	640

Belt speed	**9910**	270m/min (900ft/min)
	9911	75-270m/min (250-900ft/min)
Belt size		76mm(3") x 457mm(18")
Net weight		2.6Kg(5.7lbs)
Cord length		2.5m(8.2ft)

► **S**tandard equipment

Dust Bag -----------------------------1 pc.
Abrasive Belt AA80-----------------1 pc. (Model 9910)
Abrasive Belt AA60, 100,150 -----1 pc. (Model 9911)
<Note> The standard equipment may differ from country to country.

► **O**ptional accessories

Abrasive Belt AA40, 60,80, 100,150,180,240
Clamp Complete
Hose Complete 28-1.5
Hose Complete 28-3.0

The standard equipment for the tools shown may differ from country to country.

► Repair

(1) Replacing of armature

    1) Loosen the tapping screw PT4 x25 for mounting the housing R to remove the housing R, and the fan 60 for cooling the motor will be exposed.

    2) Loosen the tapping screw PT4 x25 for mounting the belt cover to remove the belt cover.

    3) Disconnect the holder cap and then remove the carbon brush.

    4) Remove the synchro belt 6-300 and steel plate.

Housing R

Fan 60

Tapping screw
PT4x25(7 pieces)

Tapping screw
PT4x25(4 pieces)

Belt cover
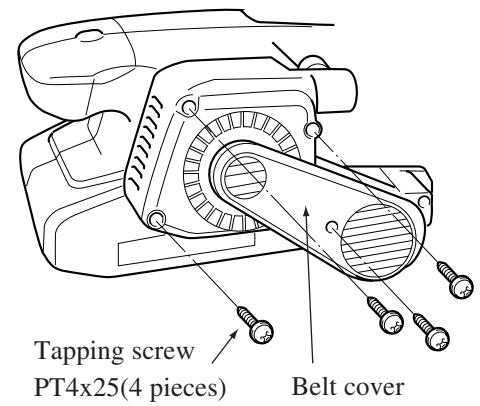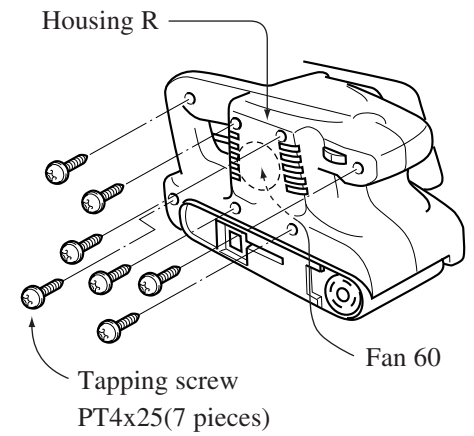
5) Turn the fan 68 in clock wise direction to remove it while fixing the fan 60 for cooling the motor.

   (Note) Since the fan 68 is mounted with anti-clock wise screw, turn in clock wise to remove.

Fan 68
Scroll plate
Carbon brush
Steel plate
Synchro belt 6-300
Holder cap
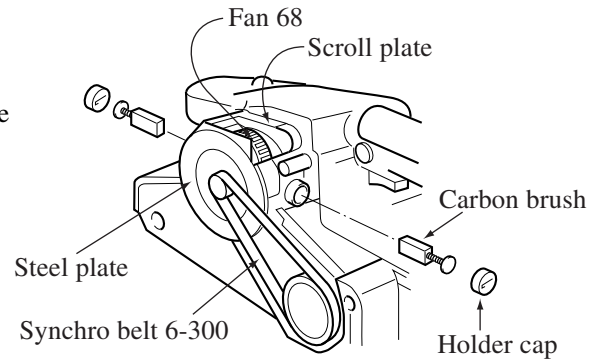
6) Remove the scroll plate.

7) Use the resin hammer to slightly hammer the armature shaft from the commutator side to disconnect the armature.

(2) Disassembling of gear

   1) In the same manner as replacing of armature, remove the housing R, belt cover and synchro belt 6-300.

   2) Remove the shoe, and the driving roller will be exposed.

   3) Use the spanner 10 to fix the hexagon point of pulley 8.5-45.1 and turn the driving roller in the direction whereby anti-clock wise screw can be loosened, and either of the pulley 8.5-45.1 or driving roller is loosened and then removed.

Bracket
Driving roller
Ball bearing 626
Pulley 8.5-45.1
Hexagon point
Spanner 10
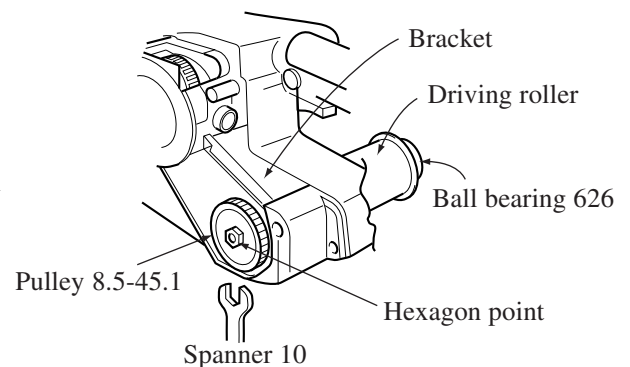
4-A) If the pulley 8.5-45.1 has been successfully removed,

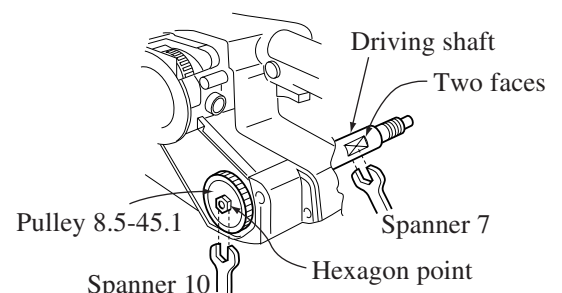   A-a) Loosen the 4 pieces of tapping screw PT4x25 for mounting the bracket to remove the bracket.

   A-b) Insert the lock nut wrench 20 through the two holes on the helical gear 31, fix the helical gear 31, and then turn the driving roller in a direction whereby the left-handed screw can be loosened.

Driving roller
Ball bearing 626
Lock nut wrench 20
Two holes on the helical gear 31
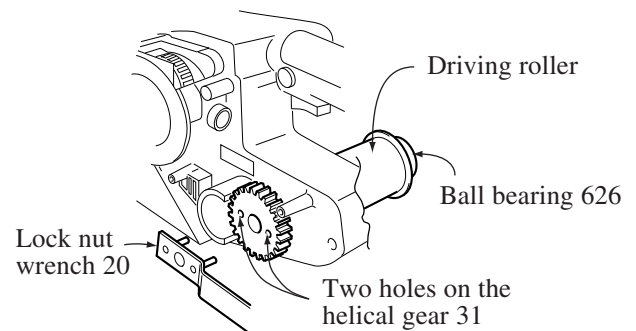
   A-c) If the ball bearing 626 and driving roller have been successfully removed, use the resin hammer to slightly hammer the helical gear 31 complete from the direction of ball bearing 626 mounting side to remove the helical gear 31 complete.

4-B) If the driving roller has been loosened and successfully removed along with the ball bearing 626,

   B-a) Set the spanner 10 on the hexagon point of pulley 8.5-45.1, insert the spanner 7 in the two faces on driving shaft, and then turn them in the direction whereby the right-handed screw can be loosened, and the pulley 8.5-45.1 can be removed.
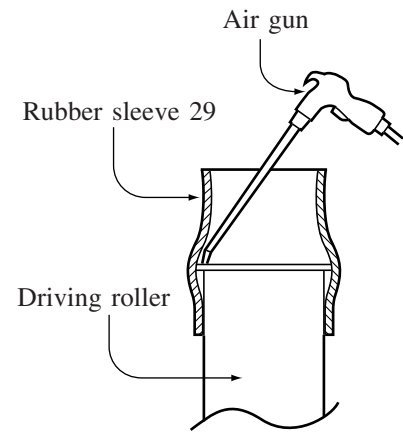
Driving shaft
Two faces
Pulley 8.5-45.1
Spanner 7
Spanner 10
Hexagon point

   B-b) Loosen the 4 pieces of tapping screw PT4x25 for mounting the bracket to remove the bracket.

   B-c) Use the resin hammer to slightly hammer the helical gear 31 complete from the direction of ball bearing 626 mounting side to remove the helical gear 31 complete.
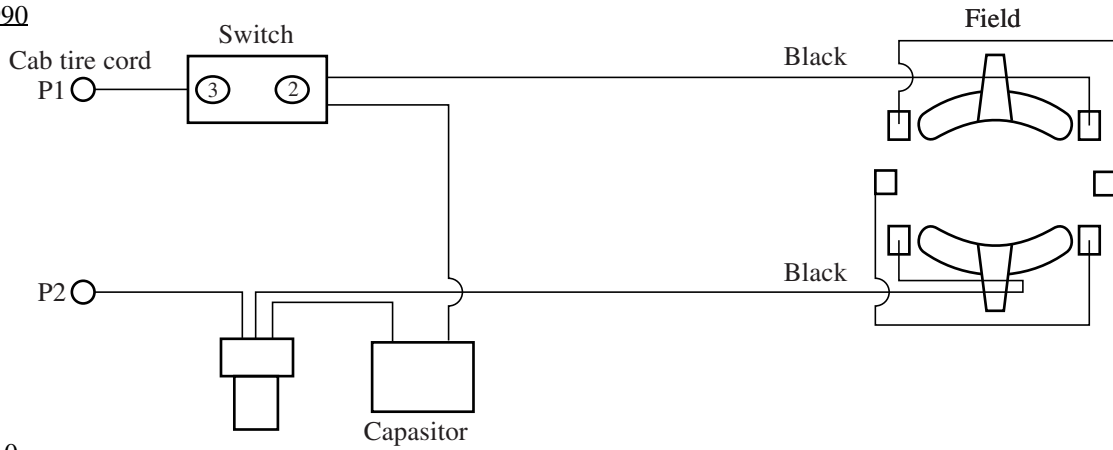
(3) Assembling of the rubber sleeve 29

    1) Insert the rubber sleeve 29 into the outer circumference of the driving roller by hands as far as possible.

    2) Push the rubber sleeve 29 and insert it while floating the rubber sleeve 29 by blowing the air into the clearance between rubber sleeve 29 and driving roller using the air gun.
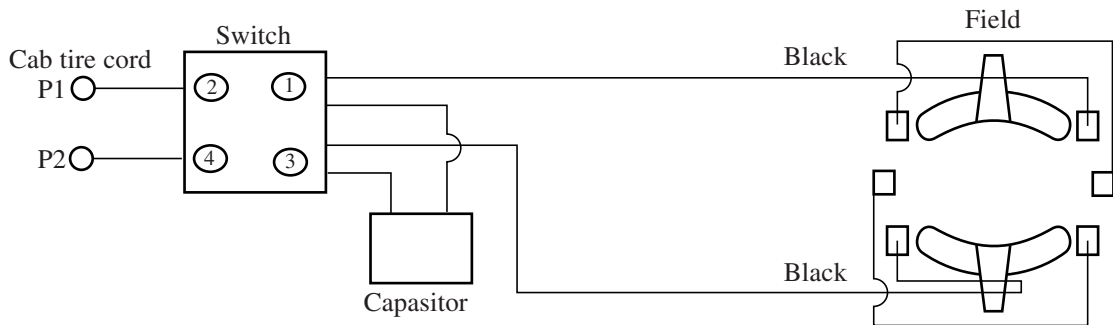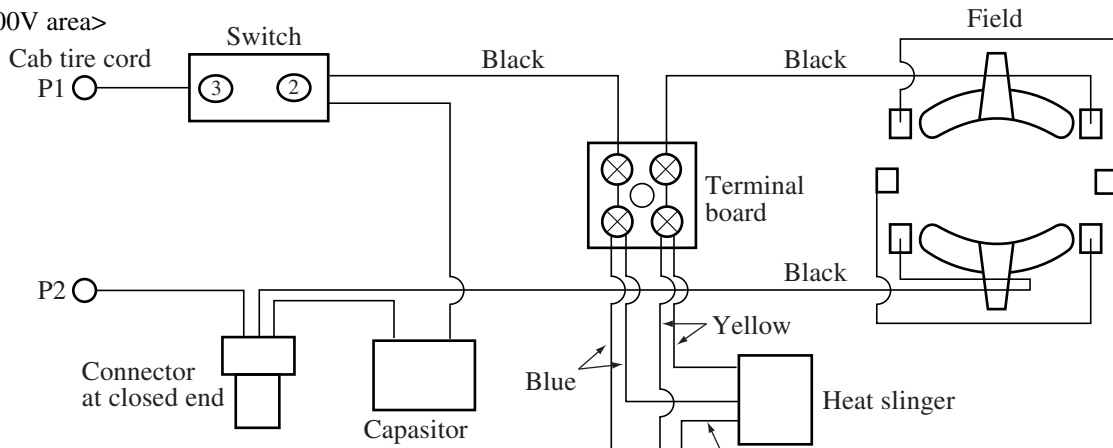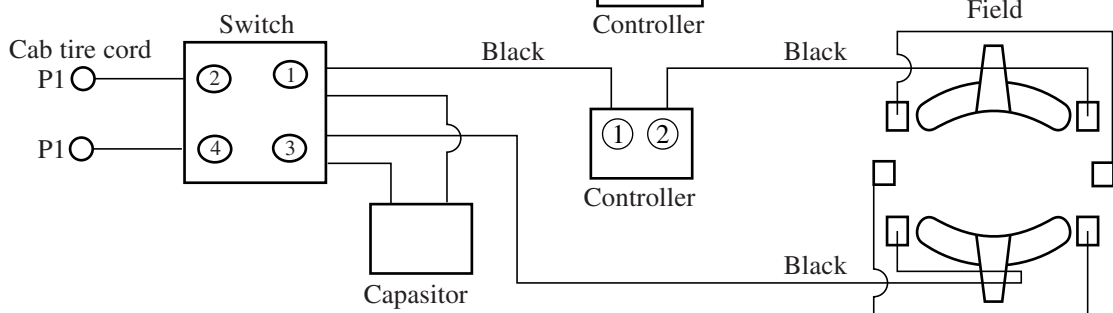
Air gun

Rubber sleeve 29

Driving roller

► Circuit drawing

M990

Cab tire cord
P1 ○ ─── Switch [③ ②] ─── Black ─── Field

P2 ○ ─────────────── Black

Capasitor

9910

Cab tire cord
P1 ○ ─── Switch [② ①]
P2 ○ ─── [④ ③] ─── Black ─── Field

Capasitor

Black

The condenser is not used in some areas.

9911
<100V area>

Cab tire cord
P1 ○ ─── Switch [③ ②] ─── Black ─── Black ─── Field

P2 ○ ─────────── Black

Terminal board

Blue

Yellow

Connector at closed end

Capasitor

Heat slinger

Black

Controller

<Area for other than 100V>

Cab tire cord
P1 ○ ─── Switch [② ①] ─── Black ─── Black ─── Field
P1 ○ ─── [④ ③]

Controller [① ②]

Controller

Capasitor

Black

The condenser is not used in some areas.