

MODEL NT65AA

1. DISASSEMBLY AND REASSEMBLY

The items particularly necessary for disassembly and reassembly are described below. The **[Bold]** numbers in the descriptions below correspond to the item numbers in the Parts List and exploded assembly diagram.

[CAUTION]

- Before disassembly or reassembly, be sure to disconnect the air hose from the nailer (with your finger released from the trigger) to exhaust all the compressed air and remove all nails.

1-1.General Precautions in Disassembly and Reassembly

- Apply grease (Nippeco SEP-3A) (Code No.930035) to the o-ring and o-ring sliding portion. When installing the o-ring, be careful not to damage the o-ring and prevent dirt entry.
- Oil required:Hitachi pneumatic tool lubricant
 - 1oz (30 cc) Oil feeder (Code No.877153)
 - 4oz (30 cc) Oil feeder (Code No.874042)
 - 1quart (1ltr) Can (Code No.876212)
- If the Gasket **[5]** is damaged, replace it and check that no air is leaking.
- Be especially careful to prevent the entry of foreign particles into the control valve section.
- Tightening torque for each part

Screw	Tightening torque N·m (kgf·cm, ft-lb)
Hex. Socket Hd. Bolt M6..... [25]	12.7 ± 0.8 (130 ± 8, 9.4 ± 0.6)
Hex. Socket Hd. Bolt M5..... [1], [43]	8.3 ± 0.5 (85 ± 5, 6.1 ± 0.4)
Hex. Socket Bolt Hd. (W/Flange) M5..... [68]	8.3 ± 0.5 (85 ± 5, 6.1 ± 0.4)
Machine Sorew (W/washer) M5..... [69]	2.0 ± 0.5 (20 ± 5, 1.5 ± 0.4)

1-2. Disassembly and Reassembly of the Output Section

(1) Disassembly and reassembly of the Exhaust Cover [4], Head Valve [9], Exhaust Valve Rubber (A) [6], etc.
(See Fig. 10A.)

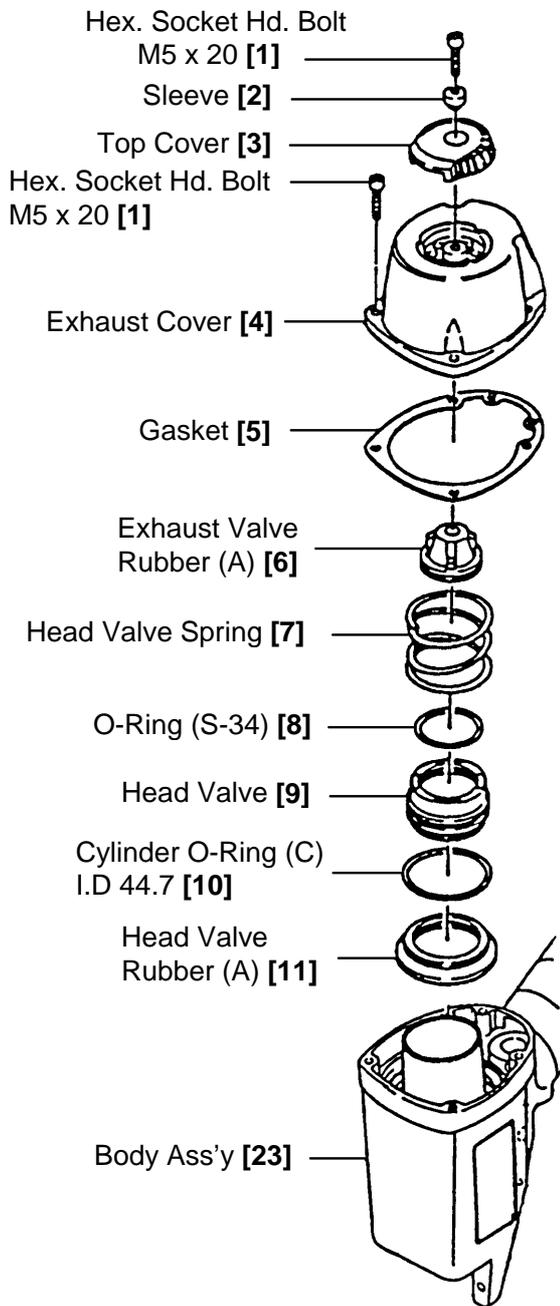


Fig. 10A Disassembly and Reassembly of the Exhaust Cover, Head Valve, Exhaust Valve Rubber (A), etc.

[Tools required]

- Hex. bar wrench [4 mm]
- Hammer

(a) Disassembly

- Remove the four Hex. Socket Hd. Bolt M5 x 20 [1] with a Hex. bar wrench (4 mm). The entire Exhaust Cover [4] can now be removed from the Body Ass'y [23].
- Remove the Hex. Socket Hd. Bolt M5 x 20 [1] with a Hex. bar wrench. The Sleeve [2] and Top Cover [3] can now be removed.
- As shown in Fig. 10B, insert a 4 to 5 mm dia. bar into the 5.5 dia. hole in the Exhaust Cover [4] and force out the Exhaust Valve Rubber (A) [6] with a hammer. Now, the parts forming the Exhaust Cover [4] can be taken out.

[CAUTION] Do not use a pointed bar or a bar with a diameter of less than 4 mm to prevent damage to the Exhaust Valve Rubber (A) [6].

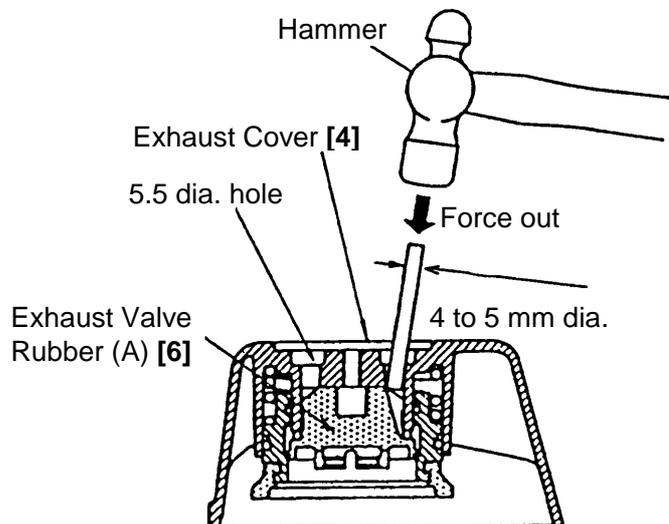


Fig. 10B

(b) Reassembly

Disassembly procedures should be followed in the reverse order. Note the following points:

- Lubricate the sliding portion of the Head Valve [9] of the Exhaust Cover [4] with about 3 grams of grease and

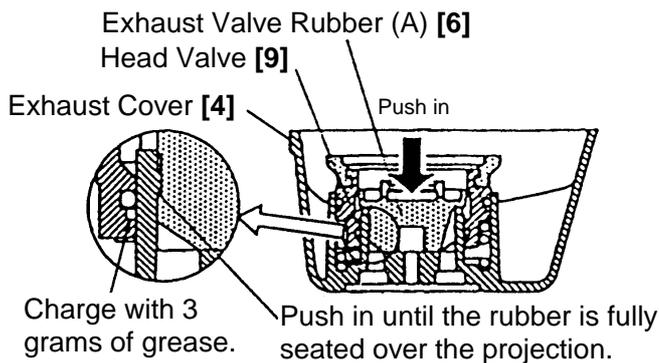


Fig. 11

apply grease to each surface of the O-Ring [8] [10].

- As shown in Fig. 11, firmly push in the Exhaust Valve Rubber (A) [6] until it is fully seated over the projection of the Exhaust Cover [4].

(2) Disassembly and Reassembly of the Cylinder [13], Piston [18], Piston Bumper [19], etc. (See Fig. 12.)

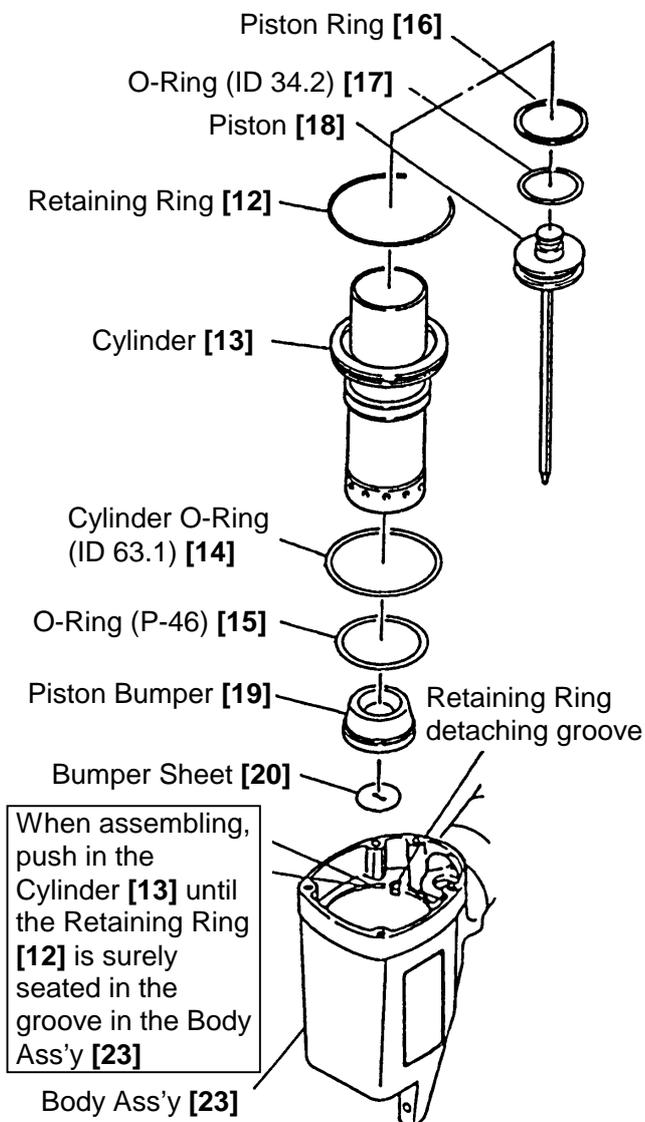


Fig. 12 Disassembly and Reassembly of the Cylinder, Piston, Piston Bumper, etc.

[Tools required]

- Hex. bar wrench (4 mm)
- Slotted-head screwdriver

(a) Disassembly

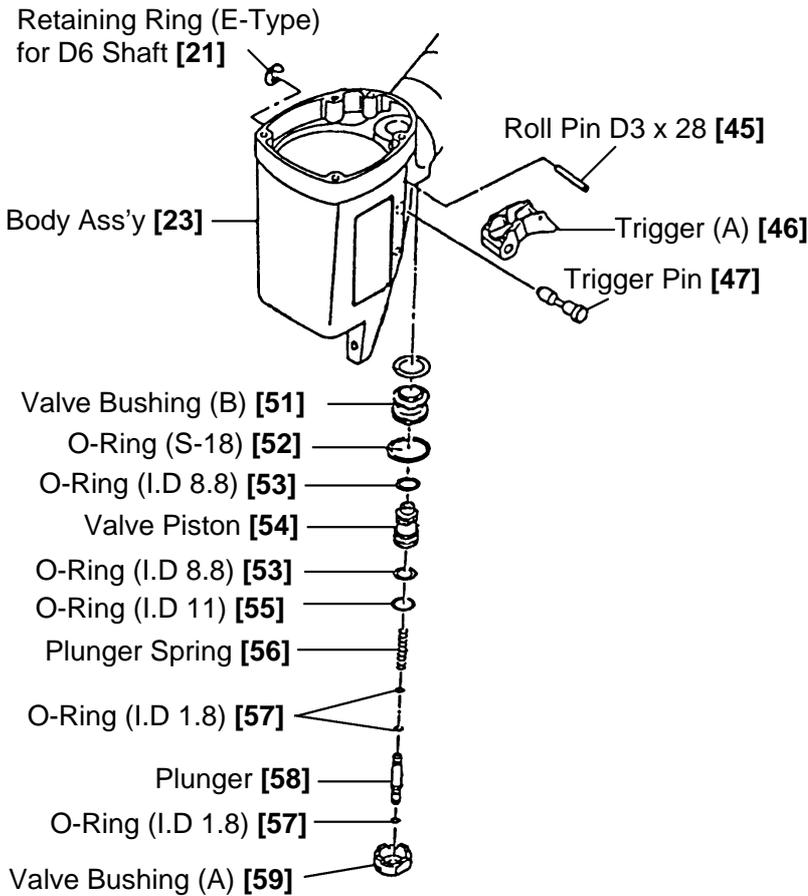
- Remove the Exhaust Cover [4] as described in section (1), remove the Retaining Ring [12] of the Body Ass'y [23], insert the blade of the screwdriver into the retaining ring detaching groove in the Body Ass'y [23], and remove the Retaining Ring [12]. Now, the Cylinder [13], Piston [18], Piston Bumper [19] (with the Bumper Sheet [20] assembled), etc. can be taken out.

(b) Reassembly

Disassembly procedures should be followed in the reverse order. Note the following points:

- Apply the supplied oil (Hitachi pneumatic tool lubricant) to the Piston Ring [16], O-Ring (ID 34.2) [17], and the internal side of the Cylinder [13].
- Apply grease to the Cylinder O-Ring (ID 63.1) [14] and then install.
- Push in the Cylinder [13] until the Retaining Ring [12] is correctly seated in the groove in the Body Ass'y [23].
- Remember that when putting the Retaining Ring [12] into the groove in the Body [23], the opening of the Retaining Ring [12] must not overlap with the Retaining Ring detaching groove.

1-3. Disassembly and Reassembly of the Control Valve Section (See Fig. 13)



[Tools required]

- Slotted-head screwdriver
- Roll pin puller (3 dia.)
- Hex. bar wrench (4 mm)
- Remove the Retaining Ring (E-Type) for Shaft [21] with the blade of a screwdriver and remove the Trigger Pin [47], and the Trigger (A) [46] can be removed.
- To remove Trigger (A) [46] together with the driving section (Push Lever (B) [31], Blade Guide [32], etc.), remove Trigger (A) [46] while forcing down the Plunger [58] with the blade of the screwdriver, as shown in Fig. 14.

Fig. 13 Disassembly and Reassembly of the Control Valve Section

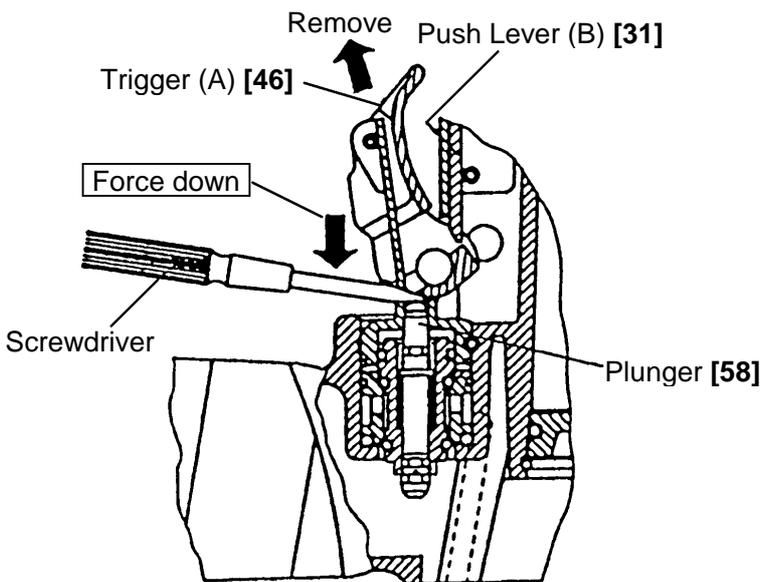


Fig. 14

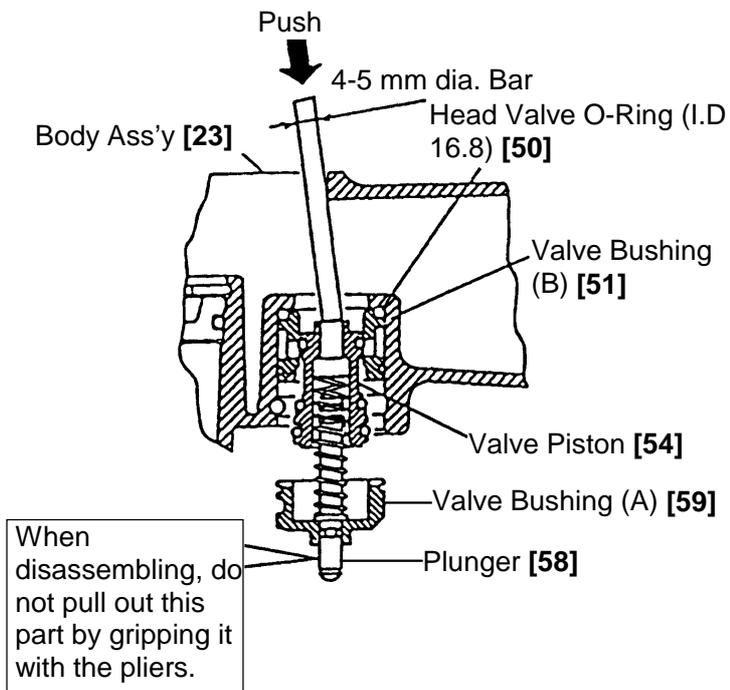


Fig. 15

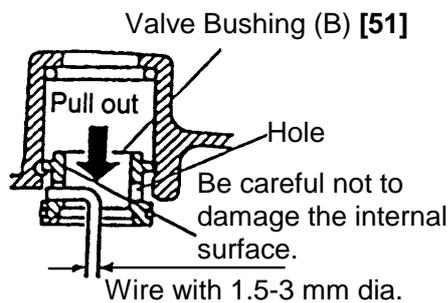


Fig. 16

- Pull out the Roll Pin D3 x 28 [45] with the roll pin puller (3 dia.), and take out the control valve in the following manner.

- 1) Remove the Exhaust Cover [4] by following the procedure in (1), Section 1-2.
- 2) As shown in Fig. 15, put in the 4-5 mm dia. bar from the upper side of the Body Ass'y [23] and push the top of the Valve Piston [54]. Now, the parts forming the control valve can be taken out except Valve Bushing (A) [59] and Head Valve O-Ring (ID 16.8) [50].

[CAUTIONS]

- Be careful not to damage the Valve Piston [54], Valve Bushings (A) and (B) [59] and [51] etc.
 - Do not pull out the end of the Plunger [58] with the pliers.
- 3) To take out Valve Bushing (B) [51], put a 1.5-3 mm dia. wire with its end hooked into the hole in the bushing and pull it out while being careful not to damage the internal surface of Valve Bushing (B) [51], as shown in Fig. 16.

(b) Reassembly

Disassembly procedures should be followed in the reverse order. Note the following points:

- Be extremely careful to prevent the entry of foreign particles into the control valve section.
- Thoroughly apply grease to the O-Ring (ID 1.8) [57] of the Plunger [58], O-Rings [53] and [55] (S-4), (ID 8.6) and (ID 11) of the Valve Piston [54], and the shaft of the plunger [58] shown in Fig. 17.
- As shown in Fig. 17, install Valve Bushing (A) [59] so that the Roll Pin groove in Valve Bushing (A) [59] will be aligned with the Roll Pin hole in the Body Ass'y [23]. First, insert the roll pin puller (3 dia.) into the roll pin hole. Then, upon confirming that the puller passes through the hole, drive in the Roll Pin D3 x 28 [45].

If an attempt is made to drive the roll pin with force when the roll pin groove in Valve Bushing (A) [59] is not aligned with the roll pin hole in the Body Ass'y [23], it will damage the periphery of Valve Bushing (A) [59] and prevent disassembly or reassembly.

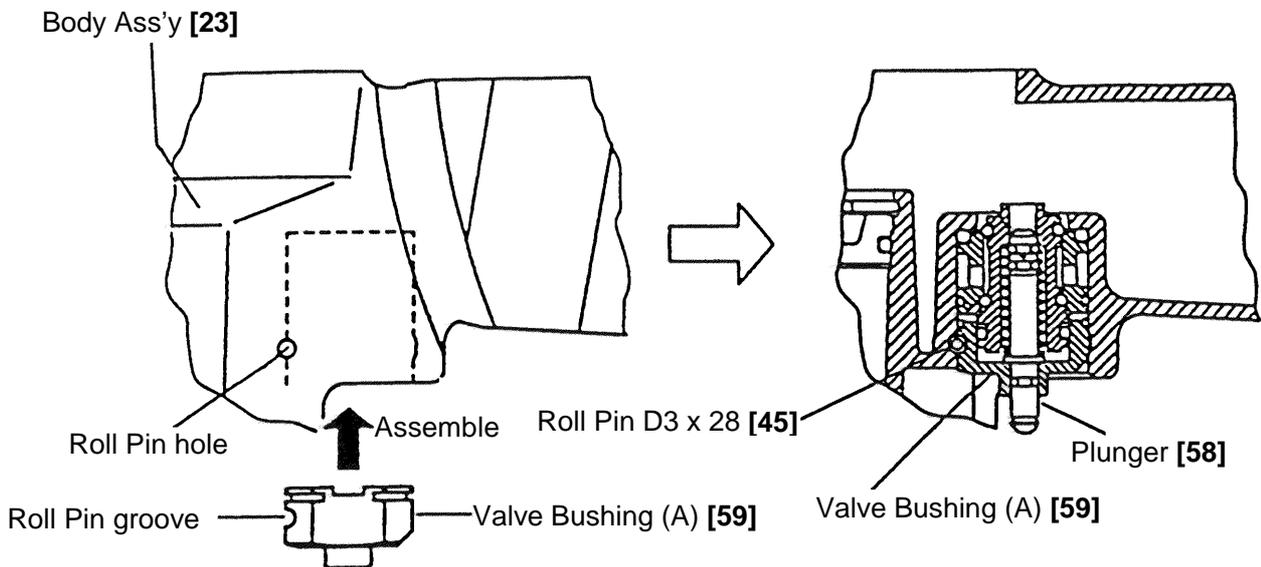


Fig. 17

- After assembling, check that the Plunger [58] moves smoothly.

1-4. Disassembly and Reassembly of the Driving Section (See Fig. 18)

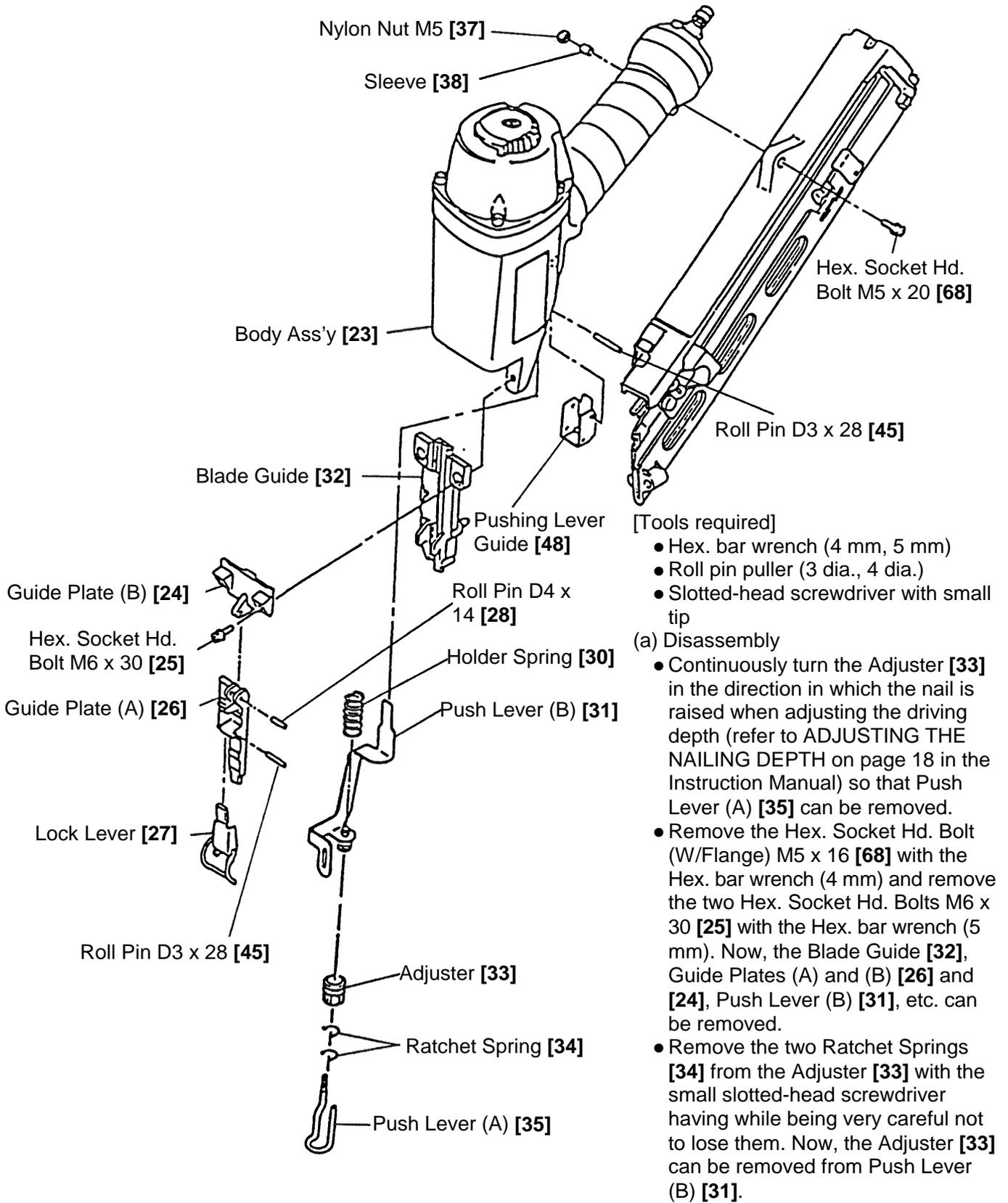


Fig. 18 Disassembly and Reassembly of the Driving Section

- Pull out the Roll Pin D4 x 14 [28] with the roll pin puller (4 dia.) so that Guide Plate (A) [26] and Guide Plate (B) [26] can be disassembled.
- Pull out the Roll Pin D3 x 20 [29] and the two Roll Pins D3 x 28 [45] with the roll pin puller (3 dia.) so that the Lock Lever [27] and Pushing Lever Guide [48] can be removed.

(b) Reassembly

- Disassembly procedures should be followed in the reverse order and tighten the two Hex. Socket Hd. Bolts M6 x 20 [25] after making Blade Guide [32], Guide Plate (A) and (B) [26] and [24] flush with Body Ass'y [23]. After assembly, check that Push Levers (A) and (B) [35] and [31] and the Adjuster [33] move smoothly.

1-5. Disassembly and Reassembly of the Cap and the Magazine Section

(1) Disassembly and Reassembly of the Cap (See Fig. 19.)

[Tool required]

- Hex. bar wrench (4 mm)

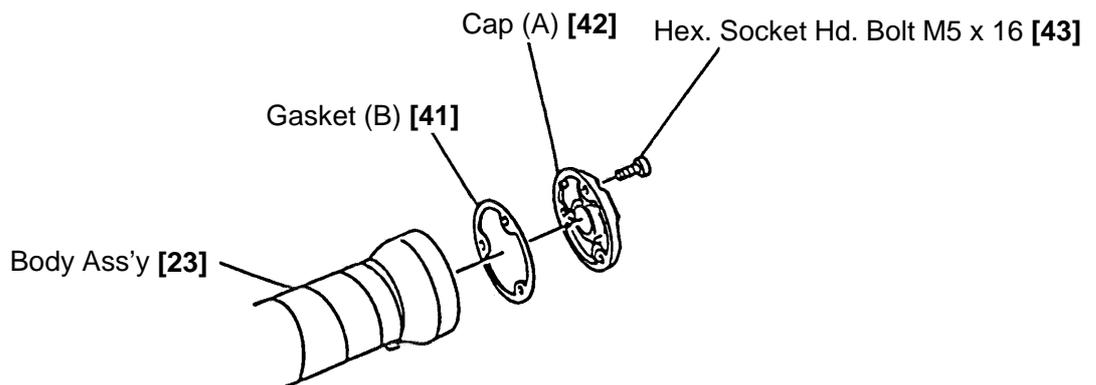


Fig. 19 Disassembly and Reassembly of the Cap

(a) Disassembly

- Remove the three Hex. Socket Hd. Bolts M5 x 16 [43] with the Hex. bar wrench (4 mm) so that the Cap (A) [42] and Gasket (B) [41] can be removed.

(b) Reassembly

- Disassembly procedures should be followed in the reverse order.

(2) Disassembly and Reassembly of the Magazine Section (See Fig. 20.)

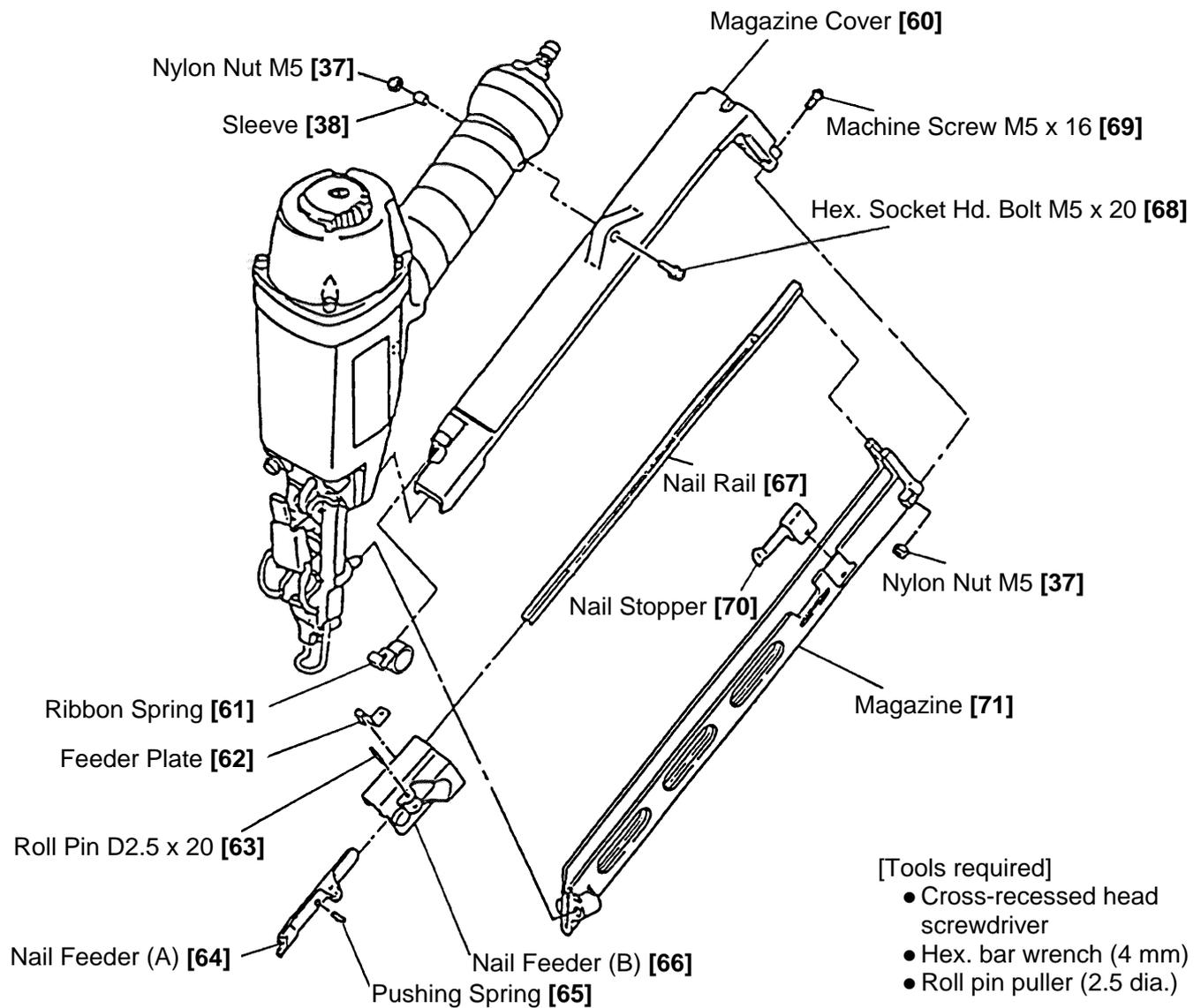


Fig. 20 Disassembly and Reassembly of the Magazine Section

(a) Disassembly

- Remove the Hex. Socket Hd. Bolt (W/Flange) [68] with the Hex. bar wrench (4 mm) so that the entire magazine section can be removed and the Ribbon Spring [61], Nail Feeders (A) and (B) [64] and [66], and Nail Rail [67] can be taken out.
- Remove the two Machine Screws M5 x 16 (black) [69] with the cross-recessed head screwdriver so that the Magazine [71] and Magazine Cover [60] can be removed.
- Pull out the Roll Pin D2.5 x 20 [63] with the roll pin puller (2.5 dia.) so that Nail Feeder (A) [64] and Nail Feeder (B) [66] and the Pushing Spring [65] can be removed.

(b) Reassembly

Disassembly procedures should be followed in the reverse order. Note the following points:

- The Hex. Socket Hd. Bolt (W/Flange) [68] should be tightened while pressing the Magazine [71] and Magazine Cover [60] so that there will be no space between the Magazine [71] and Blade Guide [32].
- Lubricate the Nail Rail [67] and Ribbon Spring [61] with Hitachi pneumatic tool lubricant to smooth the movement of Nail Feeders (A) and (B) [64] and [66].

2. INSPECTION AND CONFIRMATION AFTER REASSEMBLY

- Check that the Plunger [58] moves smoothly.
- Check that there is no air leakage from each part.
- While driving nails with an air pressure of 4.5 kgf/cm² (63 psi), check that there is no idle driving and bending of nails.

Note: Before conducting the driving test, turn the Adjuster [33] to the deepest position.

- Recheck the tightening torque of each screw.
- Check that the Push Lever (A) [35] slide smoothly.
- Check that the machine will not operate only by actuating the Trigger (A) [46]. Also check that the machine will not operate only by pressing the Push Lever (A) [35].

3. STANDARD REPAIR TIME (UNIT) SCHEDULES

MODEL	Variable		10	20	30	40	50	60 min.
	Fixed							
NT 65AA		Work Flow						
				Top Cover Exhaust Cover Gasket Exhaust Valve Rubber (A) Head Valve Spring O-Ring Cylinder O-Ring (C) Head Valve Rubber (A)	Guide Plate (A) Guide Plate (B) Blade Guide Magazine Magazine Cover Nail Feedet (A) Nail Feeder (B) Nail Rail			
	General Assembly			Push Lever (B) Holder Spring Adjuster Push Lever (A) Piston Piston Ring O-Ring Pushing Lever Guide Trigger (A) Trigger Pin Valve Bushing (A) Valve Bushing (B) O-Ring x 7 Plunger Plunger Spring Valve Piston	Cylinder Cylinder O-Ring O-Ring Piston Bumper Bumper Sheet			Body Ass'y
				Adjustment (Cylinder Body Valve)				