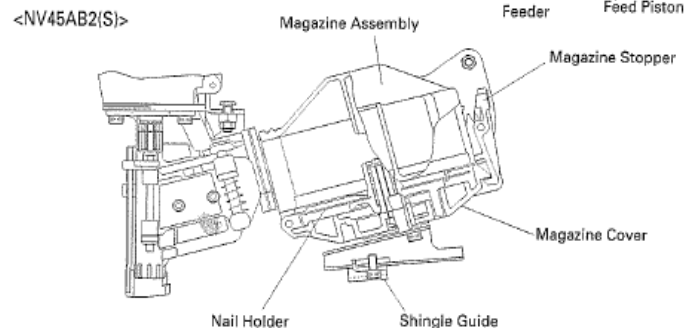
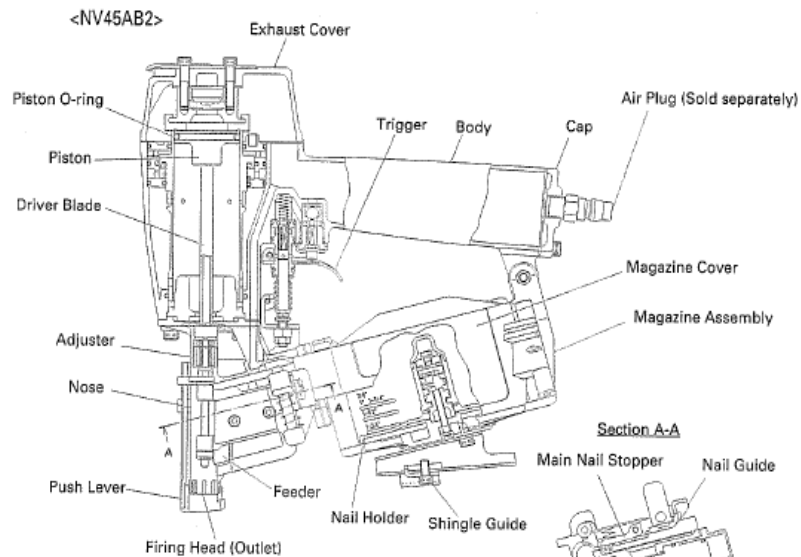


OPERATION

NOTE: The information contained in this Manual is designed to assist you in the safe operation of the Nailer.

Some illustrations in this Manual may show details or attachments that differ from those on your own Nailer.

NAME OF PARTS



SPECIFICATIONS

Model	NV45AB2	NV45AB2(S)
Operating pressure	70 – 120 psi (4.9 – 8.3 bar) 5 – 8.5 kgf/cm ²	
Dimensions Length x Height x Width	9-27/32" x 10-3/8" x 4-5/8" (250 mm x 264 mm x 117 mm)	9-27/32" x 10-3/8" x 4-7/8" (250 mm x 264 mm x 124 mm)
Weight	5.5 lbs (2.5 kg)	
Magazine type	Top loading	Bottom loading
Nail capacity	120 nails (1 coil)	
Air consumption	.046 ft ³ /cycle at 100 psi (1.3 ltr/cycle at 6.9 bar) (1.3 ltr/cycle at 7 kgf/cm ²)	
Air inlet	3/8 NPT Thread	

NAIL SELECTION

⚠ WARNING

- Be sure to use only the genuine HITACHI nails for the NV45AB2/NV45AB2(S). The use of any other nails can result in tool malfunction and/or nail breakdown, leading to serious injuries.

Only nails shown in the Table below can be driven with this Nailer.

Wire-collated coil nails	Min.	Max.

ACCESSORIES

⚠ WARNING

- Accessories other than those shown below can lead to malfunction and resulting injuries.

STANDARD ACCESSORIES



① Eye protection	1
② Allen wrench for M5 screw	1
③ Allen wrench for M4 screw	1

OPTIONAL ACCESSORIES

... sold separately

- Sequential Trip Mechanism Kit (Code No. 878226) (Single Shot Parts)
- Pneumatic Tool Lubricant
 - 1 oz. (30 cc) oil feeder (Code No. 877153)
 - 4 oz. (120 cc) oil feeder (Code No. 874042)
 - 1 quart (1 ltr) can (Code No. 876212)

NOTE: Accessories are subject to change without any obligation on the part of HITACHI.

APPLICATIONS

- Installation of asphalt roofing shingles in building construction.
- Installation of insulation boards in building construction.

BEFORE OPERATION

Read section titled "SAFETY" (pages 4 - 7).

Make sure of the followings before operation.

WORKING ENVIRONMENT

⚠ WARNING

- No flammable gas, liquid or other flammable objects at worksite.
- Clear the area of children or unauthorized personnel.

AIR SUPPLY

⚠ DANGER

- NEVER use oxygen or other bottled gases. Explosion may occur.

⚠ WARNING

- Never connect Nailer to pressure which potentially exceeds 200 psi (13.7 bar 14 kgf/cm²).
- Never use non relieving coupler on Nailer.

1. Power source
 - Use only clean, dry, regulated compressed air as a power source for this Nailer.
 - Air compressors used to supply compressed air to this Nailer must comply with the requirements of the latest version of ANSI Standard B 19.3 "Safety Standard For Compressors For Process Industries."

- Moisture or oil in the air compressor may accelerate wear and corrosion in the Nailer. Drain daily.

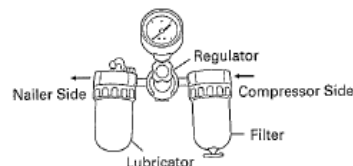
2. Filter-Regulator-Lubricator

- Use a regulator with a pressure range of 0 - 120 psi (0 - 8.3 bar 0 - 8.5 kgf/cm²).
- Filter-regulator-lubricator units supply an optimum condition for the Nailer and extend the Nailer life. These units should always be used.

Filter The filter removes moisture and dirt mixed in compressed air. Drain daily unless fitted with an automatic drain. Keep the filter clean by regular maintenance.

Regulator The regulator controls the operating pressure for safe operation of the Nailer. Inspect the regulator before operation to be sure it operates properly.

Lubricator The lubricator supplies an oil mist to the Nailer. Inspect the lubricator before operation to be sure the supply of lubricant is adequate. Use Hitachi pneumatic tool lubricant.

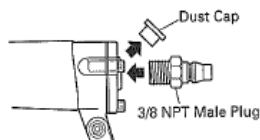


3. Air hose

Air hose must have a minimum working pressure rating of 150 psi (10.4 bar 10.6 kgf/cm²) or 150% of the maximum pressure produced in the system, whichever is higher.

4. Hose coupling

- The Nailer can be installed as follows: Remove the dust cap placed at the air inlet. Install a 3/8 NPT male plug at the air inlet.



- A female coupler must be on the air hose. The hose coupling (male plug-female coupler) must remove all pressure from the Nailer when disconnected. Never use a non relieving coupler on the Nailer.

5. Air consumption

Using the Air consumption table and the Air compressor size formula, find a correct compressor size.

Air consumption table

Operating pressure	psi (bar)	80 (5.5)	90 (6.2)	100 (6.9)
	(kgf/cm ²)	(5.6)	(6.3)	(7)
Air consumption	ft ³ /cycle (ltr/cycle)	.033 (.93)	.039 (1.1)	.046 (1.3)

Air compressor size formula

Amount of air required

= number of Nailers

x average nails driven each minute per Nailer

x air consumption at given air pressure

x safety factor (always 1.2)

Example: 2 Nailers operating at 100 psi driving 30 nails per minute

Amount of air required

= 2 x 30 x .046 (1.3) x 1.2

= 3.3 CFM (ft³/min) (94 ltr/min)

After making the calculations as shown above, you should find a compressor providing 3.3 CFM of air that is required.

LUBRICATION

It is important that the Nailer be properly lubricated. Without proper lubrication, the Nailer will not work properly and parts will wear prematurely.

- Use Hitachi pneumatic tool lubricant. Do not use detergent oil or additives. These lubricants will harm the O-rings and other rubber parts. This will cause the Nailer to malfunction.
- Filter-regulator-lubricator units should always be used. Keep the lubricator filled with Hitachi pneumatic tool lubricant.
- If a lubricator is not available, supply 5 - 10 drops of Hitachi pneumatic tool lubricant into the air plug on the Nailer twice a day.

COLD WEATHER CARE

- Do not store the Nailer in a cold weather environment. Keep the Nailer in a warm area until beginning the work.
- If the Nailer is already cold, bring it in a warm area and allow the Nailer to warm up before use.
 - ① Reduce the air pressure to 64 psi (4.4 bar 4.5 kgf/cm²).
 - ② Remove all nails from the Nailer.
 - ③ Connect the air hose and free-fire (blank-fire) the Nailer. The lowered air pressure will be enough to free-fire the Nailer. Slow speed operation tends to warm up the moving part.

⚠ CAUTION

- Do not free-fire the Nailer at high pressure.

TESTING THE NAILER

⚠ DANGER



- Operators and others in work area MUST wear safety glasses with side shields which conforms to ANSI Z87.1 specifications.

⚠ WARNING

- Never use Nailer unless push lever is operating properly.

Before actually beginning the nailing work, test the Nailer by using the check list below. Conduct the tests in the following order. If abnormal operation occurs, stop using the Nailer and contact a Hitachi authorized service center immediately.

- (1) DISCONNECT AIR HOSE FROM NAILER. REMOVE ALL NAILS FROM NAILER.

- ALL SCREWS MUST BE TIGHTENED. If any screws are loose, tighten them.



- THE PUSH LEVER AND TRIGGER MUST MOVE SMOOTHLY.

