

AXMINSTER

PROfessional

Code 107615

Original Instructions

# AP2050BN

## Brad Nailer 16G 20-50mm

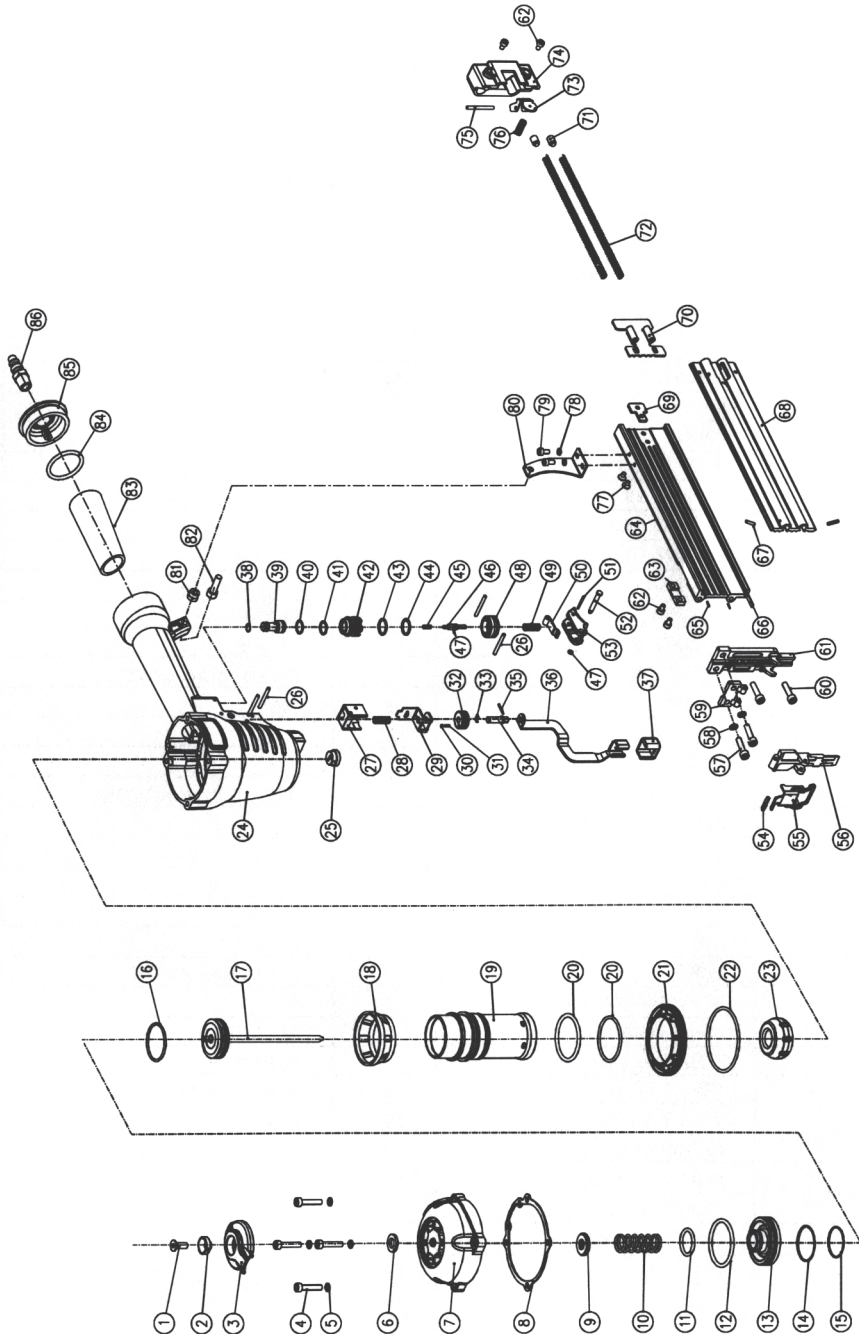


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| Object of the Declaration: Axminster Professional AP2050BN Brad Nailer                                                                                                                                                                                                                 |                                                                                                                                                                                                                             |                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UK:</b><br>Supply of Machinery (Safety) Regulations 2008 as amended<br>Electromagnetic Compatibility Regulations 2016 as amended<br>Directive 2011/65/EU (RoHS 2)<br>Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 | <b>EU:</b><br>Machinery Directive 2006/42/EC<br>EMC Directive 2014/35/EU<br>Directive 2011/65/EU (RoHS 2)<br>Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 | <b>UK Address:</b><br>Newhow Limited.<br>Trading as Axminster Tools<br>Weycroft Avenue<br>Axminster, Devon<br>EX13 5PH                                   |
| <b>Standards used or references to the other technical specifications in relation to which conformity is declared:</b><br><br>ISO 11148-13-2018, ISO12100:2010                                                                                                                         |                                                                                                                                                                                                                             | <b>European Address:</b><br>Newhow Limited.<br>Trading as Axminster Tools<br>A-201, Haagsche Hof<br>Parkstraat 83<br>The Hague<br>2514 JG<br>Netherlands |
| <b>Date:</b> 5/15/2026<br><b>Place:</b> Axminster                                                                                                                                                                                                                                      | <br>Charlie Cross<br>Operations Director                                                                                                 |                                                                                                                                                          |

# EXPLODED VIEW DRAWING



## TROUBLE SHOOTING

**STOP USING THE TOOL IMMEDIATELY IF ANY OF THE FOLLOWING PROBLEMS OCCUR. SERIOUS PERSONAL INJURY COULD OCCUR. ANY REPAIRS OR REPLACEMENTS MUST BE DONE BY A QUALIFIED PERSON OR AN AUTHORIZED SERVICE CENTER ONLY.**

| PROBLEM                                   | PROBLEM CAUSE                                                                                                                                                                                                                                                                             | SOLUTION                                                                                                                                                                                                                                                                      |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Air leaking at Trigger area               | <ol style="list-style-type: none"> <li>1. O-ring in trigger valve are damaged.</li> <li>2. Trigger valve head are damaged.</li> <li>3. Trigger valve stem, seal or O-ring are damaged.</li> </ol>                                                                                         | <ol style="list-style-type: none"> <li>1. Check and replace O-ring.</li> <li>2. Check and replace trigger valve head.</li> <li>3. Check and replace trigger valve stem, seal or O-ring.</li> </ol>                                                                            |
| Air leaking between body and front plate  | Damaged piston O-ring or bumper.                                                                                                                                                                                                                                                          | Check and replace O-ring or bumper.                                                                                                                                                                                                                                           |
| Air leaking between body and cylinder cap | <ol style="list-style-type: none"> <li>1. Screw loose.</li> <li>2. Damaged seal.</li> </ol>                                                                                                                                                                                               | <ol style="list-style-type: none"> <li>1. Tighten screws.</li> <li>2. Check and replace seal.</li> </ol>                                                                                                                                                                      |
| Bladedriving fastener too deeply          | <ol style="list-style-type: none"> <li>1. Worn bumper</li> <li>2. Air pressure is too higher.</li> </ol>                                                                                                                                                                                  | <ol style="list-style-type: none"> <li>1. Replace bumper.</li> <li>2. Adjust the air pressure.</li> </ol>                                                                                                                                                                     |
| Runs slowly or has power loss             | <ol style="list-style-type: none"> <li>1. Insufficient oil.</li> <li>2. Insufficient air supply.</li> <li>3. Broken spring in cylinder cap.</li> <li>4. Exhaust port in cylinder cap is blocked.</li> </ol>                                                                               | <ol style="list-style-type: none"> <li>1. Lubricate as instructed.</li> <li>2. Check air supply.</li> <li>3. Replace spring.</li> <li>4. Replace damaged internal parts.</li> </ol>                                                                                           |
| Tool skip a fasteners                     | <ol style="list-style-type: none"> <li>1. Worn bumper or damaged spring</li> <li>2. Dirt in front plate.</li> <li>3. Inadequate airflow to tool.</li> <li>4. Worn or dry O-ring on piston.</li> <li>5. Damaged O-ring on trigger valve.</li> <li>6. Cylinder cap seal leaking.</li> </ol> | <ol style="list-style-type: none"> <li>1. Replace bumper or spring.</li> <li>2. Clean drive channel of front plate.</li> <li>3. Check hose and compressor fittings.</li> <li>4. Replace O-ring or lubricate.</li> <li>5. Replace O-ring.</li> <li>6. Replace seal.</li> </ol> |
| Fasteners are jammed                      | <ol style="list-style-type: none"> <li>1. Joint guider is worn.</li> <li>2. Fasteners are wrong size or damaged.</li> <li>3. Magazine or front plate screws are loose.</li> <li>4. Blade in piston assembly is damaged.</li> </ol>                                                        | <ol style="list-style-type: none"> <li>1. Replace joint guider.</li> <li>2. Use the recommended and undamaged fasteners.</li> <li>3. Tighten screws.</li> <li>4. Replace piston assembly.</li> </ol>                                                                          |
| Tool will not drive down tight            | <ol style="list-style-type: none"> <li>1. Worn blade in piston assembly.</li> <li>2. Lack of power.</li> <li>3. Slow cycling and loss of power.</li> </ol>                                                                                                                                | <ol style="list-style-type: none"> <li>1. Replace piston assembly.</li> <li>2. Adjust to adequate air pressure.</li> <li>3. Check cylinder cap spring for broken coils or reduced length. Check if exhaust port of cylinder cap is restricted.</li> </ol>                     |

## READ ALL INSTRUCTIONS BEFORE OPERATING THE TOOL

### SUMMARY

You will need the instruction for the safety warning and cautions, assembly instruction, operating and maintaining procedures, exploded view drawing and parts list. Keep your invoice with this instruction. Keep the instruction and invoice in a safe and dry place for future reference.

### SPECIFICATIONS

|                        |                    |
|------------------------|--------------------|
| Model No:              | <b>AP2050BN</b>    |
| Min / Max Air Pressure | <b>70 - 120psi</b> |
| Nail / Staple Length   | <b>19 - 50mm</b>   |
| Nail / Staple Capacity | <b>100</b>         |
| Hand Vibration         | <b>8.51m/s2</b>    |
| Air Inlet              | <b>1/4"bsp</b>     |
| Air Consumption        | <b>5cfm</b>        |
| Tool Weight Kgs        | <b>1.72kgs</b>     |
| Staple Size            | <b>16g</b>         |

### SAFETY WARNINGS& CAUTIONS

1. **KEEP WORKING AREA CLEAN.** Cluttered areas invite injuries,
2. **DON'T ALLOW CHILDREN KEEP AT THE WORKING AREA.** Don't let them handle the tool.
3. **DO NOT OPERATE THIS TOOL IF UNDER THE INFLUENCE OF ALCOHOL OR DRUGS.** Read warning label on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not attempt to operate.
4. **USE SAFETY GLASSES.** Safety glasses should conform to ANSI Z87.1 specifications. Before operating, wear safety glasses against flying debris from the front and side. Safety glasses should be worn when loading, operating, unloading or servicing this tool.
5. **USE EAR PROTECTION.** The working area may be exposed to high noise levels that can lead to hearing damaged.
6. **NEVER USE OXYGEN COMBUSTIBLE GASES, BOTTLED GASES OR HIGH PRESSURE COMPRESSED GAS AS A POWER SOURCE FOR THIS TOOL.** The tool may explode and cause serious injury.
7. **DRESS SAFELY.** Protective gloves and nonskid footwear or safety shoes are recommended when working with and operating this tool. Don't wear loose clothing or jewelry. They can get caught in moving parts. Also, wear a protective hair covering to prevent long hair from getting caught in the tool.
8. **WHEN OPERATING TOOL.** keep the proper footing and balance to avoid damaged resulting from losing balance.
9. **CHECK DAMAGED PARTS.** Before using tool, carefully check if there is any part damaged.
10. **REPLACE PARTS AND ACCESSORIES.** Only allow use same replacement parts while servicing. Approved accessories and replacement parts are available.
11. **KEEP ALERT.** Watch what you are doing. Use common sense. Do not operate any tool when you are tired.
12. **STORE THE TOOL.** When not in use, tool should be cleaned, fully assembled and then, stored in a dry location to reduce rust. For safety, keep out of reach of children.

13. **OUTDOORS EXTENSION CORDS.** When air compressor is used outdoors, use only rounded jackets extensions cords intended for outside use. See manufacturer's manual for the AWG required for the compressor's amperage draw.
  14. **PAY ATTENTION TO AIR HOSE AND THEIR CONNEATIONS.** Don't trip over hoses. Make sure all connections are tight.
  15. **AFTER LOADING THE FASTENERS.** never point the tool at yourself or bystanders.
  16. **USE THE CORRECT AIR CONNECTOR.** The connector on the tool must not hold pressure when the air supply is disconnected. If the wrong fitting is used, the tool can be charged with air after being disconnected and still be able to drive a fastener.
  17. **WHEN CONNECTING THE AIR.** The tool may possibly fire the fasteners as soon as you plug it in to air hose. Therefore, remove all the fasteners before connecting to the air.
  18. **DO NOT DEPRESS THE SAFE BRACKET AND THE TRIGGER WHEN LOADING.**
  19. **IF THE FASTENERS ARE JAMMED.** Disconnect the tool from the air and remove the jammed fasteners out.
  20. **THIS TOOL IS EQUIPED WITH THE SAFE BRACKET THAT CAN ADJUST THE DEPTH OF THE DRIVER.** When adjusting the depth of the driver, first disconnect the tool from the air and rotate nut by thumb to satisfactory position.
- WARNING: The warning, caution, and instructions explained in this instruction cannot cover all possible conditions and situations that may occur. It must be understood by the operator that COMMON SENSE AND CAUTION ARE FACTORS WHICH CANNOT BE BUILT TINTO THIS PRODUCT, BUT MUST BE SUPPLIED BY THE OPERATOR.**

## UNPACKING

When unpacking, please refer to following table and check all the parts are complete. If any parts are missing or broken, please call seller for help.

| Description           | Q'ty |
|-----------------------|------|
| Nailer                | 1    |
| S3 Hex Key            | 1    |
| S4 Hex Key            | 1    |
| S5 Hex Key            | 1    |
| Air Tool Oil          | 1    |
| Operating instruction | 1    |

## SETTING

Your air tool is fully assembly when you receive it. Before using it, attach the air line and desired air system accessories. See Figure 1 for the recommended accessories and connection order. Be sure the air hose is depressurized when installing or removing adapters to the air line.

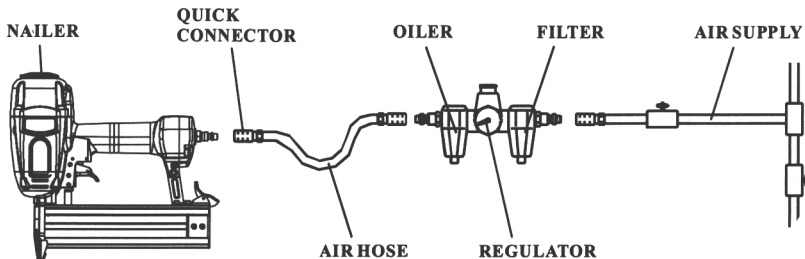


Figure 1

## CONNECTING THE TOOL TO AN AIR SUPPLY

1. Determine if the tool needs oil and, if necessary, place two drops of oil in the AIR PLUG (86) as shown in Figure 2. If you are using an automatic in-line oiler, check and add oil if necessary.
2. Turn the compressor on and set the regulator to the proper pressure according to the size and type of fastener being used.
3. Connect the tool to the air supply (see setting for air supply connection recommendation).

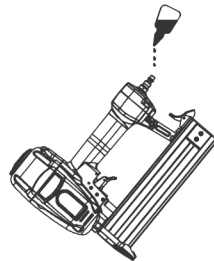


Figure 2

## LOADING THE FASTENERS

1. Depress the LOCK (73) to release the MOVABLE MAGAZINE (68) and pull the magazine out fully as shown in Figure 3.
2. Place a full clip of the specified type and size fasteners on the FIXED MAGAZINE (64), up to 100 fasteners may be loaded in the magazine.
3. Push the MOVABLE MAGAZINE ASSEMBLY forward until it was locked.

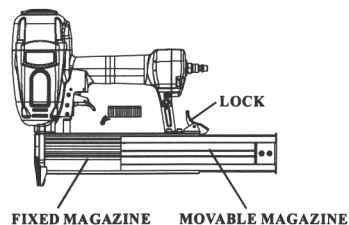


Figure 3

## OPERATING THE TOOL

Test the driving depth in a sample piece of wood before using. If the fasteners are being driven too far or not far enough, adjust the regulator to provide less air pressure or more air pressure.

1. Load fastener as above the direction given in the section called LOADING THE FASTENERS.
2. Connect the tool to the air supply. Make sure the air pressure is in correct range denoting in section of SPECIFICATIONS.
3. Hold the Body (24) and press the Drive guide (61) and Safe bracket (36) to work surface, being sure that the tool is straight and then gently depress the Trigger (53) to drive the fastener.
4. Lift the tool quickly off the work surface.
5. The tool has two driving modes:
  - 1). Put the Drive guide on the working surface, lightly push the tool toward the working surface until the Safe bracket is depressed, then, depress the trigger assembly to drive the fastener.
  - 2). First, depress the Trigger assembly, then, repeatedly impact the Safe bracket, the tool can repeatedly drive the fasteners. The tool will drive one fastener when the Safe bracket is impacted one time

## REGULAR MAINTENANCE

1. Frequent, but not excessive, lubrication is required for best performance. Oil added through the air inlet will lubricate internal parts. An automatic air line oiler is recommended but oil may be added manually before every operation or after about 1 hour of continuous use. Only a few drops of oil at a time are necessary. Too much oil will collect inside the tool and be blown out during the exhaust cycle. **ONLY USE PNEUMATIC TOOL OIL.** Do not use detergent oil or additives, because these lubricants will cause accelerated wear to the seal in the tool.
2. Use a small amount of oil on all moving surface and pivots.
3. Dirt and water in the air supply are major causes of pneumatic tool wear. Use a filter/oiler for better performance and longer life. The filter must have adequate flow capacity for the specific application. Consult the manufacturer's instructions for proper maintenance of your filter.
4. Keep tools clean for better and safer performance. Use nonflammable cleaning solutions (**CAUTION:** Such solutions may damage O-ring and other tool parts) only if necessary. **DO NOT SOAK.**

## PARTS LIST

Refer to the Exploded View Drawing for the location of parts listed below.

| ITEM | DESCRIPTION        | ITEM | DESCRIPTION         |
|------|--------------------|------|---------------------|
| 1    | SCREW              | 44   | O-RING 20.3*1.5     |
| 2    | BUSHING            | 45   | SPRING              |
| 3    | EXHAUST COVER      | 46   | TRIGGER VALVE STEM  |
| 4    | SCREW              | 47   | O-RING 5.5*1.5      |
| 5    | WASHER             | 48   | TRIGGER VALVE GUIDE |
| 6    | SEAL               | 49   | SPRING              |
| 7    | CYLINDER CAP       | 50   | TRIGGER SPRING      |
| 8    | GASKET             | 51   | SPRING PIN          |
| 9    | VALVE SEAL         | 52   | PIN                 |
| 10   | SPRING             | 53   | TRIGGER             |
| 11   | O-RING 22.8*2.5    | 54   | RUBBER SLEEVE       |
| 12   | O-RING 49.2*3.5    | 55   | LATCH ASSEMBLY      |
| 13   | VALVE              | 56   | FRONT PLATE         |
| 14   | O-RING 43.3*3.5    | 57   | SCREW               |
| 15   | O-RING 28.3*3      | 58   | SPRING WASHER       |
| 16   | O-RING 40.3*3.5    | 59   | SPACER              |
| 17   | PISTON ASSEMBLY    | 60   | SCREW               |
| 18   | COLLER             | 61   | DRIVE GUIDE         |
| 19   | CYLINDER           | 62   | SCREW               |
| 20   | O-RING 47*2.5      | 63   | BLOCK               |
| 21   | RESTRICTIVE PLATE  | 64   | FIXED MAGAZINE      |
| 22   | O-RING 66.6*2.6    | 65   | PIN                 |
| 23   | BUMPER             | 66   | RAIL                |
| 24   | BODY               | 67   | PIN                 |
| 25   | JOINT GUIDE        | 68   | MOVABLE MAGAZINE    |
| 26   | SPRING PIN 3*28    | 69   | STOPPER             |
| 27   | SAFE GUIDE         | 70   | FEEDER SHOE         |
| 28   | SPRING             | 71   | SPRING SEAT         |
| 29   | SAFE BRACKET A     | 72   | SPRING              |
| 30   | STELL BALL         | 73   | LOCK                |
| 31   | SPRING             | 74   | MAGAZINE PLATE      |
| 32   | ADJUSTING SCREW    | 75   | PIN                 |
| 33   | LOCK WASHER        | 76   | SPRING              |
| 34   | COUPLING BAR       | 77   | SCREW               |
| 35   | PIN                | 78   | SPRING WASHER       |
| 36   | SAFE BRACKET B     | 79   | SCREW               |
| 37   | RUBBER SLEEVE      | 80   | SUPPORT             |
| 38   | O-RING 9.5*1.9     | 81   | NUT                 |
| 39   | TRIGGER VALVE HEAD | 82   | SCREW               |
| 40   | O-RING 10.3*1.9    | 83   | SOFT GRIP SLEEVE    |
| 41   | O-RING 12.8*1.9    | 84   | O-RING 48.8*2.5     |
| 42   | VALVE SET          | 85   | END CAP             |
| 43   | O-RING 20.3*2.5    | 86   | AIR PLUG            |