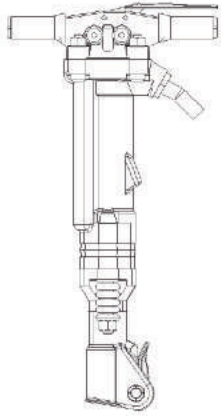
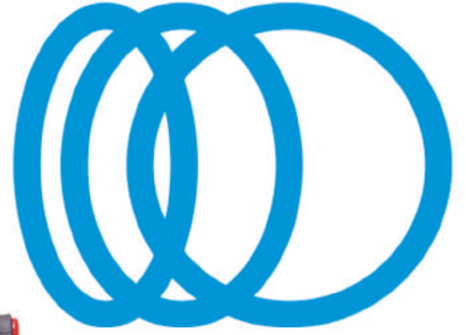


**Manual de partes y
operación**

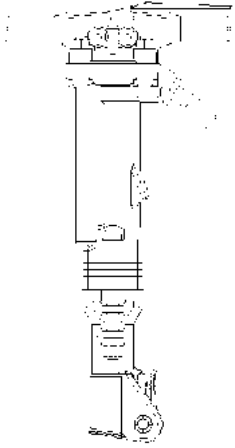


TPB 90

TOKU



Alpha C
Un lazo para toda la vida.



OPERATOR'S INSTRUCTIONS AND PARTS LIST

AIR CONCRETE BREAKER MODEL TPB-90

Symbol

Please observe all safety precautions listed below.

WARNING: This may cause an accident resulting in injury or death if it is not observed.

CAUTION: This may cause injury, damage or trouble to the air tool or equipment if it is not followed.

WARNING

To reduce risk of injury, everyone using, installing, repairing, maintaining changing accessories on, or working near this tool **MUST** read and understand these instructions before performing any such task.

DO NOT DISCARD-GIVE TO USER



Do not use an Air Breaker until this safety instruction has been read and understood completely.
This manual is necessary to help you to use the Air Breaker correctly.

WARNING

Do not use an Air Breaker before reading this safety instruction manual.
Obey all of the safety measures indicated in this manual

FOR DETAILED INFORMATION ABOUT TOKU AIR TOOLS AND EQUIPMENT
CONTACT TO :

TOKU PNEUMATIC TOOL CO., LTD.
3-4, 4-Chome Katakasu, Hakata-Ku, Fukuoka 812-0043 Japan

Phone: +81-92-431-0401
E-mail: int-op@toku-net.co.jp

FAX: +81-92-431-1014
URL: <http://www.toku-net.co.jp/en/>

7th edition

Safety precaution when using an Air Tool

Always obey the law and the safety regulations during work.

Always wear proper clothing and use other protective equipment when operating an air tool.

WARNING

Always wear ear protection to prevent possible ear damage when operating an air tool at high noise level or for a long time.

WARNING

Heavy vibration from an air tool may result in injury to the hand, fingers and wrist of operator during a long period of operation.

Stop using an air tool if you feel pain or any problem concerning the use of an air tool. Resume use of an air tool after consulting with a doctor, confirming that there is no problem concerning the use of an air tool.

Always wear suitable working clothes when operating an air tool because a necktie or clothing with an open sleeve may get caught in the air tool during operation and may result in danger to the operator.

Always wear the following protective equipment during the operation of an air tool to protect the operator from getting hurt according to the type of the operation.

Gloves Dust proof mask Helmet Protective goggles Ear protection Working shoes
Setting up a dust vacuum device is recommended when operating an air tool indoors.



Rules for the purpose of safety, which must be observed

WARNING

It is absolutely necessary to receive permission from the manufacture for the purpose of any modifications concerning the air tool.

The manufacturer will not assume any responsibility concerning an accident resulting in injury, death or any trouble from an air tool due to the reconstruction without the permission of the manufacturer.

Always use GENUINE tool replacement parts recommended by the manufacturer when replacing any part of an air tool.

There must be a sticker or a sign indicating matters concerning the safety precautions and maintenance on a new air tool.

It is always important to keep this sticker of sign to be clean enough to read. It is available from the distributor of the manufacturer if it is lost.

Checking the workplace or work site

Do not permit people except operators get near the work site. Especially it is very dangerous to permit children into the working area.

Arranging and preparing the working area are the starting lines to ensure safety operation. Always maintain the work site or workshop to be in order and make sure they have enough light.

Always observe the rules such as warning, caution, manual, etc written in the working area.

Do not use the tool in explosive conditions.

Maintenance and replacement of the chisel

WARNING

Turn the valve cock of the compressor completely to the stop position, hold down the throttle valve and release the pressure in the hose completely before inspecting and replacing the chisel.

Inspect the chisel regularly, replace with a new one if any defect, such as a crack is found. Using a chisel with any defect is very dangerous.

Make sure that the tip of the chisel is sharp once again.

Hose connection

WARNING

Install the metallic cap of the air hose onto the body of the air tool firmly. The metallic cap will come off and cause the hose to run amuck due to vibration if the metallic cap is used in a loose condition. This will be very dangerous.

Check for damage of the air hose and in the connection part of the air tool body.
Confirm that there is no dust or dirt.
Do not point the air hose at anyone.
Never use compressed air to clean cloth.

Operation

CAUTION

Keep your feet away from the chisel. There would be a risk for injury if the chisel drops onto the operator's foot when the chisel is broken.

Never operate an air tool at an air pressure over the limit of the air tool.
Confirm that the retainer of the chisel is locked firmly before starting the air tool.
Never start an air tool without a chisel.
Always hold an air tool with both hands. Confirm that the handle is clean without any grease or oil.
Do not place the air tool on a person's foot.
Always keep well balanced during operation.
Never get on a tool. For example, do not put one foot on the handle of the air tool.
This may become a reason to get hurt especially when the air tool is broken.
Investigate the material of the work. For example, when using the tool for electric and telephone cable, water and drain pipe, etc, inspect for hidden cable or pipe underground before operating an air tool.
In case the chisel hits something during operation, stop the air tool immediately.
Restart the tool after the danger is cleared.

Service and maintenance

Turn the valve cock of the compressor completely to the stop position, hold down the throttle valve and release the pressure in the air hose completely before disconnecting an air tool.
Read and understand the instruction manual correctly. Contact with the selling agent or distributor of the manufacturer for further service information if necessary.
When it is necessary to use solvent to clean parts, be sure it is within the safety standards first, then use the solvent at a place with good ventilation.

Never be careless

Always concentrate on the work.
Always use common sense.
Eye vision and reaction deteriorate significantly in fatigue conditions after taking medicine, or drinking alcohol.
Never use an air tool when you are under the influence of these conditions.

Always direct exhaust away from yourself and others in the area.

**Always disconnect tool from the air supply when not in operation.
If quick-disconnect couplings are used, separate the coupling from the tool with a leader hose.**

Always make sure cutting chisel is securely latched in the tool before depressing throttle trigger.

Always hold cutting tool down firmly on the work before depressing throttle trigger.

Operator's instruction

Preparations before operation

Check following matters before operation.

Compressor

Capacity of the compressor is sufficient. Minimum requirement 25hp, 80CFM at 90psig (6.2bar)
Whether the drain has been removed.

Air Hose

Whether there is any damage to the air hose. Whether the size and length is correct.
Clean the interior of the air hose using compressed air.
When using two or more tools, all except leader hose should be 1" or large.
(See diagram above for piping and fittings.)

Inspection of the Air Breaker

Whether there is looseness in the screw thread areas.
Whether there is a crack or breakage in the main body.

Inspection of chisel

Whether the chisel is suitable for the shank of the Air Breaker.
Whether the chisel is suitable for the work.
Whether there is wear or cracks.
Whether the chisel is mounted correctly.

Wearing protective equipment

Whether the helmet, protective goggles, ear protection, gloves and working shoes are worn correctly.

Air Supply

Whether the air pressure is suitable. For best operation, supply tool with 90psig (6.2bar) of clean, dry air.
Higher pressure drastically reduces tool life and can void warranty. (600kPa for max)

Lubrication

To flush out GUM and DIRT – you should do the following two steps EACH DAY.

1. (Before the shift), pour a liberal quantity of gum solvent oil into the tool's air inlet.
2. Connect tool to air line and operate. Repeat this procedure before storing the tool.

Air line lubricator should be used in conjunction with the integral oiler.

Repeat this procedure before storing the tool.

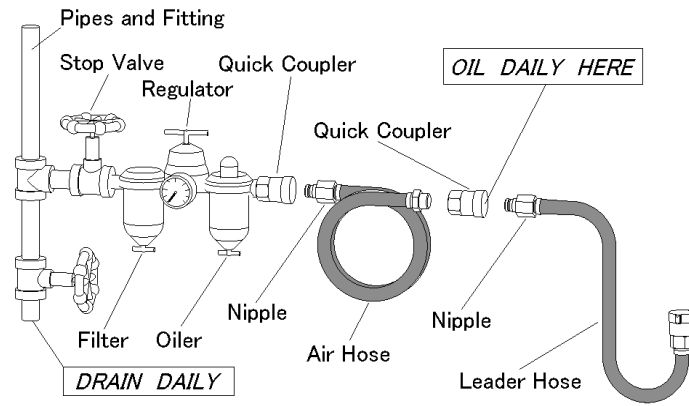
Whether the oil is suitable for the Air Breaker. (turbine oil equivalent to ISO VG46)

Whether lubrication has been performed. (at least twice day)

The importance of adequate and continuous lubrication cannot be overemphasized.

A few minutes operation without oil may severely damage the valve parts, cylinder and piston.

Hose Connection



Whether there is any dust, or damage to the air connection portion.
Whether the air hose is tight enough.

Operation guide

Maintain good balance on both feet. Keep proper distance from the chisel of the Air Breaker.
Never put your hand near the chisel when using the Air Breaker horizontally.
Push the Air Breaker against the object firmly using the handle before turning the throttle valve down.
Obey the law and safety regulations.

Inspection and maintenance



WARNING

Turn valve cock of the compressor to the stop position first, hold down the throttle and release the excess pressure in the air hose completely, then disconnect the Air Breaker from the air hose and finally inspect the Air Breaker.

Inspection and storage for an Air Breaker

Clean the exterior surface using a cloth.
Regularly inspect the tightening torque on the bolts.
Inspect whether there are any cracks or damage in the Air Breaker.

Storage of the Air Breaker

Apply 3 cc of oil from the air inlet. operate the Air Breaker for about 5 seconds after completing work.
Repeat above operation 2-3 times before storing the Air Breaker.
Put a cap on the air inlet of the Air Breaker to prevent any dust or foreign material from entering the Air Breaker. Keep the Air Breaker in a dry place.

Loss of power/erratic action (possible causes)

1. Reduced compressor output.
2. Excessive drain on air line.
3. Moisture or restricted pipe, hose or fittings.
4. Improper size or poor condition of pipe, hose or fittings.
5. Incorrect shank size of chisel, or excessively worn shank.
6. Free running (or blank blow) can cause damage to the tool. Always hold the tool down to the work.
7. Loosening of side bolts or back head bolts will cause loss of power and can cause damage to the tool.
Periodic inspection of bolt torque at regular intervals (at least once a week if tool is being used regularly) is recommended.

If everything else appears to be in order, then disassemble tool, replace worn or damaged parts, clean, reassemble and lubricate.

Replacement parts

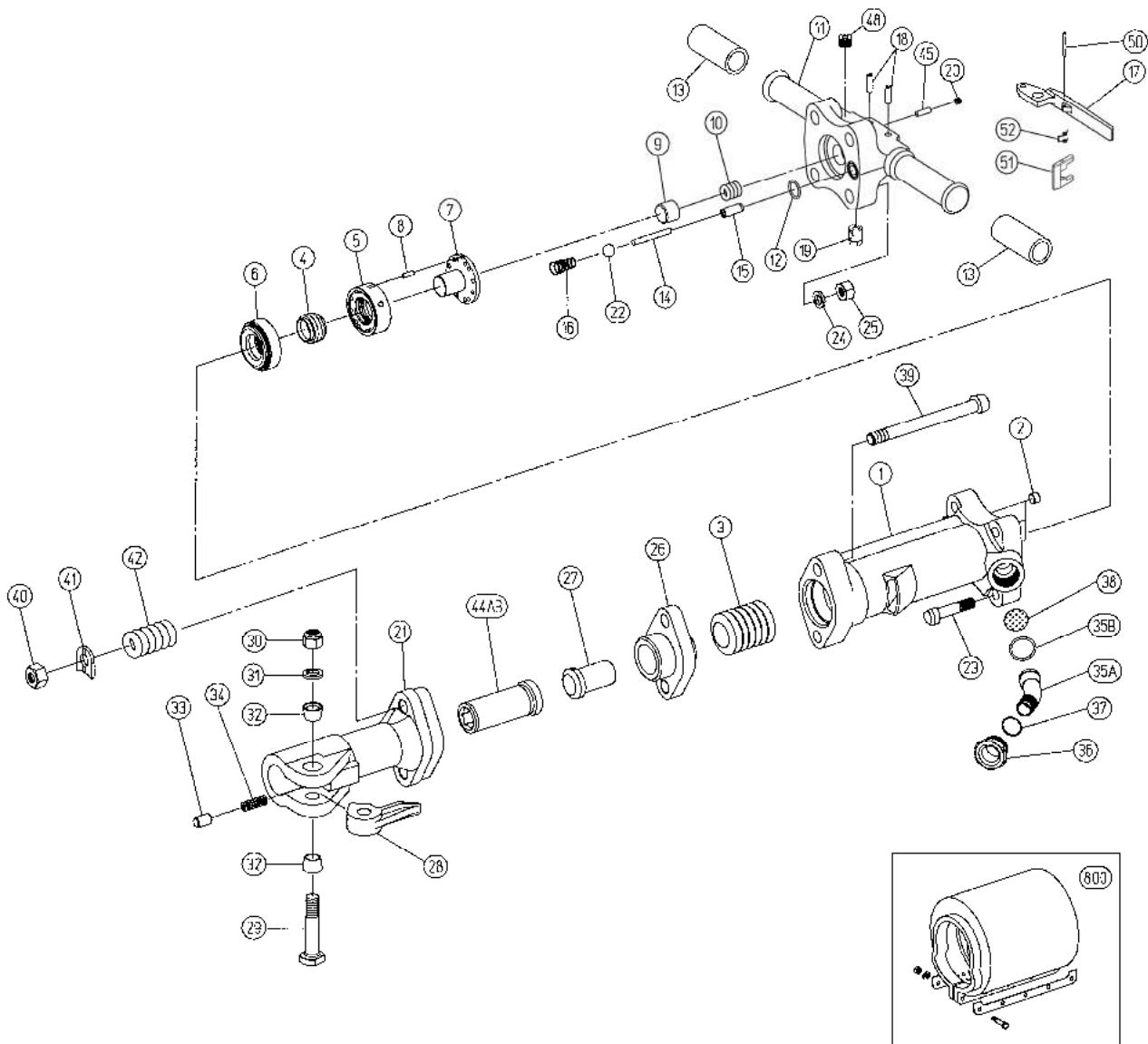
Always use **GENUINE TOKU TOOL Replacement Parts**.

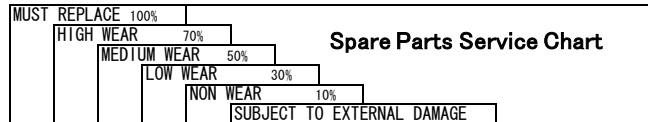
When replacement parts are required, order by Part Number and Description from the Parts List.

TPB-90

Parts List

Exploded View





Symbol No.	Parts No.	Q'ty Req.	Description	MUST REPLACE 100%	HIGH WEAR 70%	MEDIUM WEAR 50%	LOW WEAR 30%	NON WEAR 10%	SUBJECT TO EXTERNAL DAMAGE
1	410271010	1	Cylinder					X	
2	136301011	5	Cylinder Plug					X	
3	410271040	1	Piston		X				
4	410241150	1	Valve					X	
5	410271190	1	Valve Chest					X	
6	410271170	1	Valve Seat					X	
7	410271200	1	Valve Guide					X	
8	130401035	1	Valve Chest Dowel Pin					A	
9	410241660	1	Plunger					X	
10	130801040	1	Plunger Spring					X	
11	410271480	1	Back Head (Bare)					X	
12	131105017	1	O-Ring 6227-17	X					
13	136601011	2	Rubber Grip					X	
14	410241E00	1	Throttle Pin					X	
15	410201300	1	Throttle Valve Stem Guide					X	
16	130801047	1	Throttle Valve Spring		X				
17	410241311	1	Throttle Lever					X	
18	410201330	2	Throttle Lever Pin					A	
19	134905012	1	Oil Plug NPTF 1/2					A	
20	134901001	1	Pipe Plug PP-2 PT1/8					X	
21	410271531	1	Front Head					X	
22	130505048	1	Polyurethane Rubber Ball 3/4					A	
23	131501018	4	Back Head Bolt					X	
24	131301116	4	Spring Washer M16					X	
25	410241510	4	Back Head Bolt Nut					X	
26	410271591	1	Tappet Seat					X	
27	410271581	1	Tappet			X			
28	410239610	1	Steel Retainer	X					
29	410241620	1	Steel Retainer Bolt		X				
30	134601019	1	Hex Nylon Nut UNF3/4-16		X				
31	131303048	1	Spring washer W3/4		X				
32	136301010	2	Steel Retainer Bolt Bushing		X				
33	410241650	1	Steel Retainer Plunger		X				
34	130801042	1	Steel Retainer Spring		X				
35A	410271370	1	Air Connection Tube					X	
35B	131103023	1	O-Ring S-29	X					
36	410271390	1	Air Connection Nut					X	
37	131102002	1	O-Ring G-30	X					
38	136801007	1	Air Inlet Screen					X	
39	131501017	2	Front Head Bolt					X	
40	410241550	2	Front Head Bolt Nut					X	
41	410241560	2	Front Head Bolt Lock Washer					X	
42	130801043	2	Front Head Bolt Spring					X	
44A	410241572	1	Front Head Bushing 1-1/8"	X					
44B	410245572	(1)	Front Head Bushing 1-1/4"	X					
45	136101011	1	Felt Oiler					X	
48	134903004	2	GDL Plug NPTF 1/2					A	
50	130604040	1	Spring Pin 4X40					X	
51	410241761	1	Stop Lever					X	
52	130801046	1	Stop Lever Spring					X	
800	41027187C	(1)	Muffler CP					X	
(801)	41027148A	(1)	Back Head CP (Inc. Sym. No.11, 13, 14, 15 17, 18, 19, 20, 45, 48, 50, 51, 52)					X	
(44ACP)	41027153D	(1)	Front Head CP 1-1/8 (Inc. Sym. No.21, 28, 29, 30, 31 32, 33, 34, 44A)					X	
(44BCP)	41027553D	(1)	Front Head CP 1-1/4 (Inc. Sym. No.21, 28, 29, 30, 31 32, 33, 34, 44B)					X	

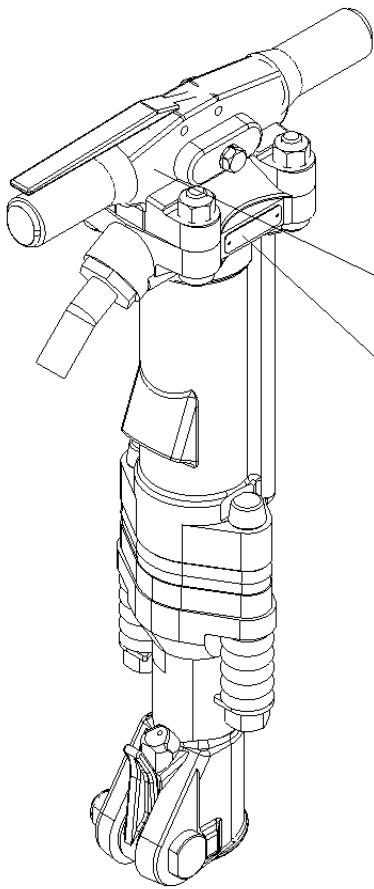
This service chart is a guide to expectant life of component parts. The replacement levels are based on average tool usage over a one year period.

Example : For 10 tools in use : 10 must —replace items will be required per year, 7 high wear items, etc.

Note: Quantities must be increased if the tool is in more service or continuous usage.

LEGEND
 X—Type of wear, if no other comments apply.
 A—Easily lost or damaged during disassembly and reassembly.

Location of Serial number, Year of manufacture and Name plate



Serial Number
e.g. 2017-J001

Year of manufacture

Name plate

