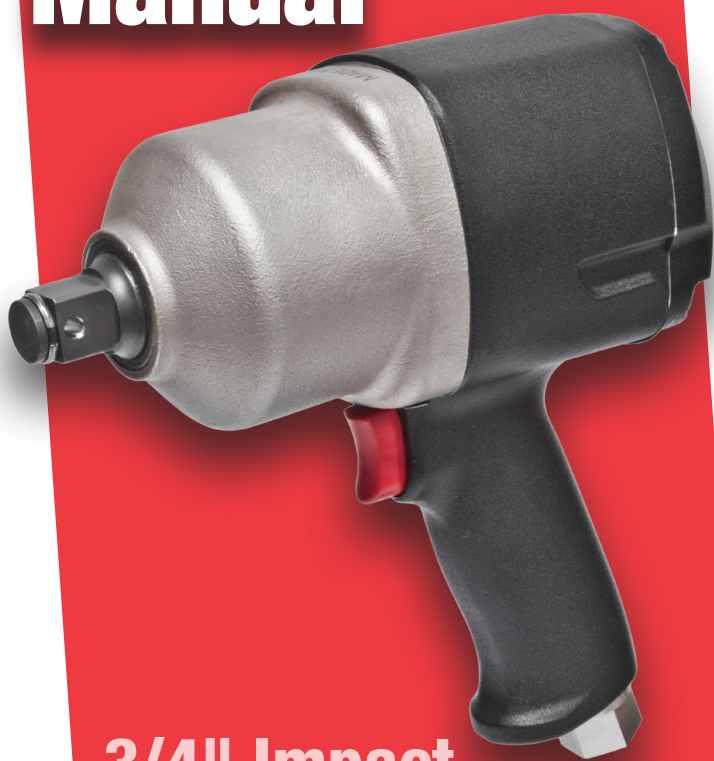




**MICHIGAN
PNEUMATIC TOOL**

Industrial Air Tools

750SS Manual



3/4" Impact

- ★ **751SS** 1" Model also available
- ★ **754SS** #4 Spline Model also available



1-800-521-8104

www.michiganpneumatic.com

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Features

- ❶ All the Power of a 1" Impact in the Compact Size of a Traditional 3/4" Class Pistol Grip Tool.
- ❷ 2000 ft-lbs Reverse Torque.
- ❸ 1800 ft-lbs Forward Torque.
- ❹ Low Air Consumption at 58 cfm.
- ❺ Weighs Only 13.5 lbs.
- ❻ 300 Series Stainless Steel Hammer Case Housing and Throttle Components.
- ❼ 3 Options for Anvil: 3/4" Dual Retainer Anvil, 1" Dual Retainer Anvil, #4 Spline Anvil.

The 750SS Series Impact offers the highest power to weight ratio in a 3/4" impact. Featuring Stainless Steel Hammer Case and Throttle Components for use in corrosive environments. The inevitable water and debris that is found in compressed air systems is no match for the stainless steel throttle parts and motor design. The combination of the bronze end plates and stainless steel cylinder prevent the 750SS series tools from becoming seized after sitting for a nominal period of time with condensation in the motor chamber. The Dual Retainer design on the 3/4" Sq. and 1" Sq. Drive anvils provide the operator with socket retainer options. The Twin Hammer design in conjunction with tight motor tolerances delivers extreme torque. Made in the USA.

Safety

General Product Safety Information

- Failure to observe the following warnings and failure to avoid these potentially hazardous situations could result in death or serious injury.
- Read and understand this and all other supplied manuals before installing, operating, repairing, maintaining, changing accessories or working near this product.
- Only qualified and trained operators should install, adjust or use the tool.
- It is your responsibility to make this safety information available to others that will operate this product.
- The warnings given in this and all other supplied manuals are for identifying hazards that are foreseeable in the general use of this tool. However, specific applications may create other hazards that must be identified and reduced before using the tool.
- Always install, operate, inspect and maintain this product in accordance with all applicable standards and regulations (local, state, country, federal, etc.) Operate and maintain this tool as recommended in this manual

to prevent an unnecessary increase in noise, vibration, dust and fume hazards.

WARNING

Product Safety Information – When Placing the Tool in Service

- Before beginning a job the operator or their employer must assess all potential risks of using this product to do the job. These risks must be eliminated or appropriate controls must be implemented to reduce the risk to a safe level.
- Always use clean, dry air at 90 psig (6.2 bar/620 kPa) maximum air pressure at the inlet, unless a higher pressure rating is specified on the tool. Exceeding the maximum rated pressure (P_{MAX}) shown on the tool may result in hazardous situations including excessive speed, rupture, or incorrect output torque or force.
- Ensure an accessible emergency shut off valve has been installed in the air supply line, and make others aware of its location.
- Install a properly sized Safety Air Fuse upstream of hose and use an anti-whip device across any hose coupling without

Safety

internal shut-off to prevent hose whipping if a hose fails or coupling disconnects.

- Whenever universal twist couplings (claw couplings) are used, lock pins should be installed to prevent connection failure. Whip hoses can cause severe injury. Do not use damaged, frayed or deteriorated air hoses and fittings. Check that all fittings are tight before applying air pressure.

WARNING

Product Safety Information – General Hazards While Tool In Use

- Always use Personal Protective Equipment appropriate to the tool used and material worked. This may include dust masks or other breathing apparatus, safety glasses, ear plugs, gloves, apron, safety shoes, hard hat and other equipment.
- Air under pressure can cause severe injury. Never direct air at yourself or anyone else.
- Always turn off the air supply. Bleed the air pressure and disconnect the air supply hose when not in use before performing any maintenance on this tool or any accessory.
- Keep clear of whipping air hoses. Shut off the compressed air before approaching a whipping hose.
- Do not use power tools when tired or under the influence of medication, drugs or alcohol.
- Never use a damaged or malfunctioning tool or accessory.
- Do not modify the tool, safety devices or accessories. Modifications can reduce the effectiveness of safety measures; increase the risks to the operator, and void the warranty.
- Do not use this tool for purposes other than recommended.
- Exposed throttles shall not be used where obstructions can hold the throttle in the “on” position.
- When a secondary handle is supplied ensure it is properly installed and use two hands to maintain control when operating the tool.
- Impact Wrenches are not torque wrenches. Connections

Safety

requiring specific torque must be checked with a torque meter after fitting with an impact wrench.

Workplace Hazards

- Slips, trips and falls are major causes of workplace injury. Keep work area clean, uncluttered, ventilated, and illuminated.
- Be aware of slippery surfaces caused by the use of the tool and also of trip hazards caused by the air line.
- For overhead work, safety helmets must be worn. The increased risks to the operator and others must be assessed and reduced to a safe level.
- Keep others at a safe distance from your work area or ensure they use appropriate Personal Protective Equipment.
- This tool is not designed for use in potentially explosive atmospheres including those caused by fumes, dust or near flammable materials.
- This tool is not insulated against electric shock. Be aware of buried, hidden or other hazards in your work environment. Do not contact damage cords, conduits, pipes or

hoses that may contain electrical wires, explosive gases or harmful liquids.

Projectile Hazards

- Always wear eye protection when operating or performing maintenance on this tool. The grade of protection required should be assessed for each use and may include impact-resistant glasses with side shields, goggles, or a full face shield over those glasses.
- Ensure work pieces are secure. Use clamps or vises to hold work piece whenever possible.
- Failure of the work piece, socket, tool drive end, extension or accessories can generate high-velocity projectiles.

Noise Hazards

- Always wear hearing protection when operating this tool.
- Exposure to high noise levels can cause permanent, disabling hearing loss and other problems such as tinnitus (ringing, buzzing, whistling or humming in the ears). Therefore, risk assessment and the implementation of appropriate controls for these hazards are essential.

Safety

- Appropriate controls to reduce the risk from noise hazards may include actions such as damping materials to prevent work pieces from “ringing.”
- If the tool has a silencer, always ensure it is in place and in good working order when the tool is being operated.

Operating Hazards

- Operators and maintenance personnel must be physically able to handle the bulk, weight and power of the tool.
- Keep body stance balanced and firm. Do not overreach when operating this tool. Anticipate and be alert for sudden changes in motion, reaction torques or forces during start up and operation. The operator should change posture during extended tasks, which can help avoid discomfort and fatigue.
- Use of the tool can expose the operator’s hands to hazards, including crushing, impacts, cuts, abrasions and heat. Wear suitable gloves to protect hands. However, ensure that the gloves do not restrict your ability to release the trigger or throttle mechanism.

- To avoid accidental starting – ensure the tool is in the “off” position before applying air pressure, avoid the throttle when carrying, and release the throttle with loss of air.

- Do not lubricate tool with flammable or volatile liquids such as kerosene, diesel or jet fuel. Use only recommended lubricants.

- Do not carry or drag the tool by the hose.

- Tool and/or accessories may briefly continue their motion after throttle is released.

- On Reversible tools, note the position of the reversing mechanism before operating the tool so as to be aware of the direction of rotation when operating the throttle.

Accessory Hazards

- Use only sizes and types of accessories and consumables that are recommended by the tool manufacturer; do not use other types or sizes of accessories or consumables.

- Periodically check the drive end of the tool to make certain that the socket retainer functions correctly and that socket and

Safety

drive ends are not excessively worn which may allow the socket to come off during rotation.

- Use only impact sockets and accessories in good condition, as poor condition or hand (chrome) sockets or accessories can shatter and become a projectile when used with power tools.

Dust and Fume Hazards

- Wear appropriate respiratory protection if dust or fumes are present in the work area.
- Dust and fumes generated when using power tools, and existing dust disturbed by their use can cause ill health (for example, cancer, birth defects, asthma and/or dermatitis,). Risk assessment and implementation of appropriate controls for these hazards are essential. The priority shall be to control them at the source.
- Direct the exhaust so as to minimize disturbance of dust in a dust-filled environment.
- All integral features or accessories for the collection, extraction or suppression of airborne dust or fumes should be correctly used and maintained in accordance with the manufacturer's instructions.

Prevent exposure and inhalation of harmful dust and particles created by power tool use.

- Some dust created by power sanding, sawing, grinding, drilling and other construction activities contain chemicals known to cause cancer, birth defects, or other reproductive harm. Some examples of these chemicals are:
 - Lead from lead based paints
 - Crystalline silica from bricks and cement and other masonry products
 - Arsenic and chromium from chemically treated lumber
- Your risk from these exposures varies, depending on how often you do this type of work.
- To reduce your exposure to these chemicals: work in a well ventilated area and work with approved safety equipment such as dust masks that are specially designed to filter out microscopic particles.

Entanglement Hazards

- Entanglement of loose clothing, personal jewelry, neckwear, hair, gloves or other items can occur if not kept away from the working end of the tool. Entanglement can result in choking, scalping, lacerations, broken bones and/or severed extremities.

Safety

- Never hold the rotating drive, drive extension, socket or other accessory, especially when wearing gloves.

Vibration Hazards

- Power tools can vibrate in use. Exposure to vibration can cause disabling damage to the nerves and blood supply of the hands and arms. If you experience numbness, tingling, pain or whitening of the skin in your fingers or hands, stop using the tool and seek advice from a qualified health professional before resuming use.
- Hold the tool with a light but safe grip, taking account of the required hand reaction forces because the risk arising from vibration is generally greater where the grip force is higher.
- Wear warm clothing when working in cold conditions and keep your hands warm and dry.
- Do not use worn or ill-fitting sockets or extensions, as this is likely to cause a substantial increase in vibration.
- Do not touch sockets or accessories during impacting, as this increases the risk of cuts, burns or vibration injuries.

Repetitive Motion Hazards

- Repetitive motions or uncomfortable positions may be harmful to your hands, arms, shoulders, neck or other parts of the body. Stop using any tool if symptoms such as persistent or recurring discomfort, pain throbbing, aching, tingling, numbness, burning sensations or stiffness occur. These warning signs should not be ignored. Seek advice from a qualified health professional before resuming use.

WARNING

Product Safety information – When Maintaining the Tool

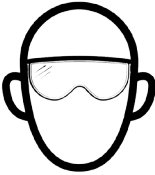
- Keep the tool operating safely through regular preventative maintenance including regular checks of speed and vibration.
- When maintaining the tool, avoid exposure or breathing of hazardous dust and other substances deposited on the tool during use.
- Use only proper cleaning solvents to clean parts. Use only cleaning solvents which meet current safety and health

Safety

standards. Use cleaning solvents in a well ventilated area.

- Do not remove any labels.
- Replace any damaged label.

NOTICE: Refer to Product Information Manual for Model Specific Safety Information.



Wear Eye Protection



Wear Hearing Protection



Wear Respiratory Protection



Read Manuals Before Operating Product

Maintenance

Air Supply

1. Always use clean, dry air at 90 psig (6.2 bar/620kPa) maximum air pressure.
2. Be sure all hoses and fittings are the correct size and are secured tightly.

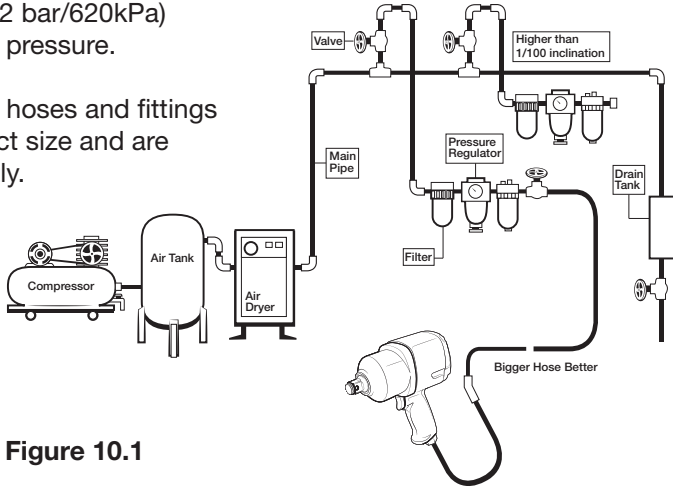


Figure 10.1

3. Always use a Filter, Regulator, Lubricator (*see figure 10.1*).

Lubrication

1. Each time a tool is disassembled for maintenance or repair, the tool must be lubricated.
2. Work approximately 15 cc of Mobil Mobilux EP2 Lithium Grease into the Impact Mechanism.
3. Generously coat the Anvil, Hammers and Hammer Case Bushing with grease while assembling.
4. Coat the vanes with Marvel Air Tool Oil before sliding them into the rotor.

5. For routine maintenance, inject 4-5 cc of grease into the grease fitting (750SS-15) using a low pressure grease gun after every 40 hours of run time.
6. Apply 6-8 drops of Marvel Air Tool Oil into the inlet prior to and after each use (*see figure 10.2*).



Figure 10.2

Specification Sheet



**MICHIGAN
PNEUMATIC TOOL, Inc.**



Model

MP-750SS

3/4" Impact Wrench

Offers one of the industry's highest power-to-weight ratios. Featuring a stainless steel hammer case and a twin hammer design for increased durability. Constructed with non-corrosive materials for prolonged field life. 100% Made in the USA.

Anvil	3/4" Sq. Dual Retainer
Max Torque (Forward)	1800 ft-lbs
Max Torque (Reverse).....	2000 ft-lbs
Free Speed	4600 rpm
Length.....	9"
Weight.....	13.5 lbs
Air Inlet Thread	3/8"
Rec'd Hose Size	1/2"
Avg. Air Consumption58 cfm



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Specification Sheet



**MICHIGAN
PNEUMATIC TOOL, Inc.**



Model

MP-751SS

1" Impact Wrench

Offers one of the industry's highest power-to-weight ratios. Featuring a stainless steel hammer case and a twin hammer design for increased durability. Constructed with non-corrosive materials for prolonged field life. 100% Made in the USA.

Anvil	1" Sq. Dual Retainer
Max Torque (Forward)	1800 ft-lbs
Max Torque (Reverse)	2000 ft-lbs
Free Speed	4600 rpm
Length	9"
Weight	13.5 lbs
Air Inlet Thread	3/8"
Rec'd Hose Size	1/2"
Avg. Air Consumption	.58 cfm



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Specification Sheet



**MICHIGAN
PNEUMATIC TOOL, Inc.**



Model

MP-754SS

#4 Spline Drive Impact Wrench

Offers one of the industry's highest power-to-weight ratios. Featuring a stainless steel hammer case and a forged hammer frame for increased durability. Constructed with non-corrosive materials for prolonged field life. 100% Made in the USA.

Anvil	#4 Spline Drive
Max Torque (Forward)	1800 ft-lbs
Max Torque (Reverse).....	2000 ft-lbs
Free Speed	4600 rpm
Length	9"
Weight	13.5 lbs
Air Inlet Thread	3/8"
Rec'd Hose Size	1/2"
Avg. Air Consumption58 cfm

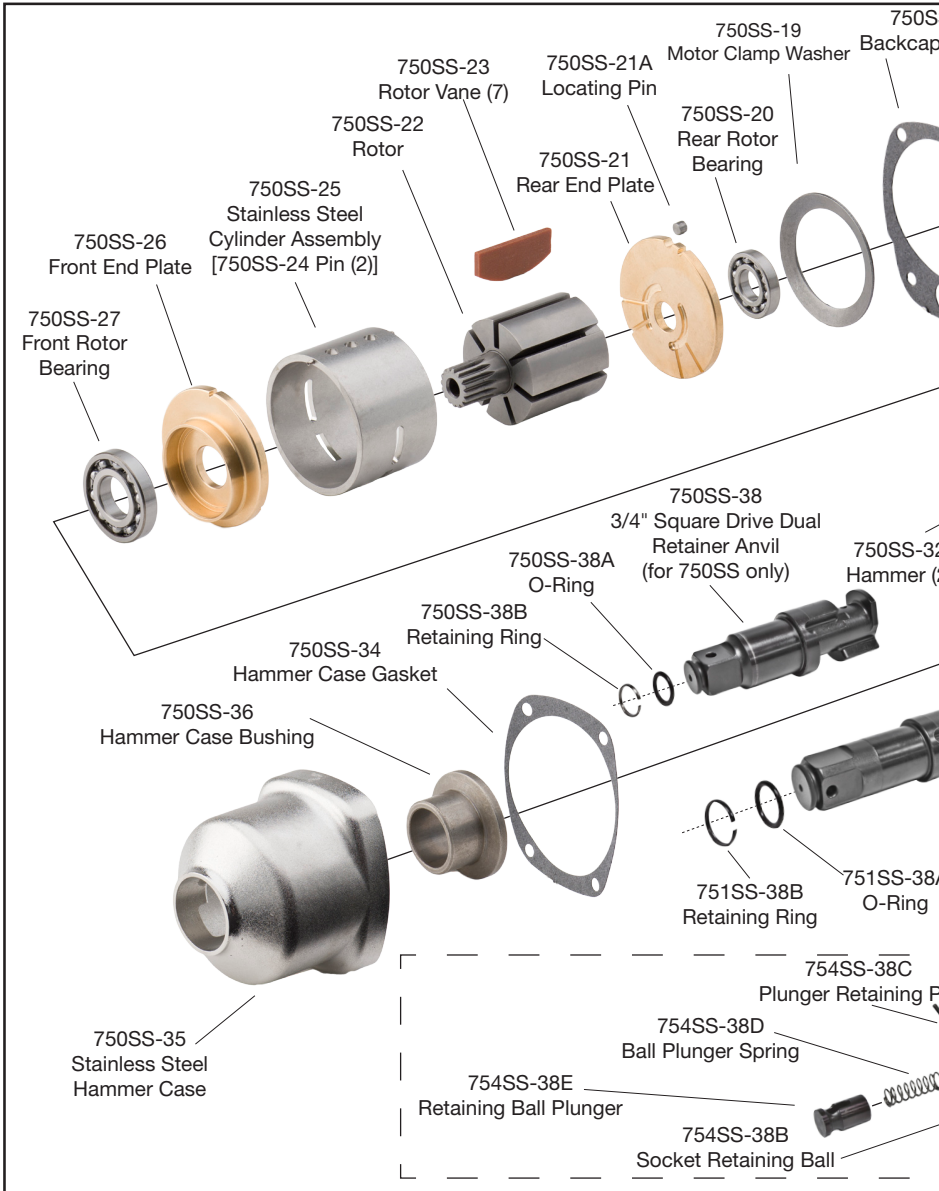


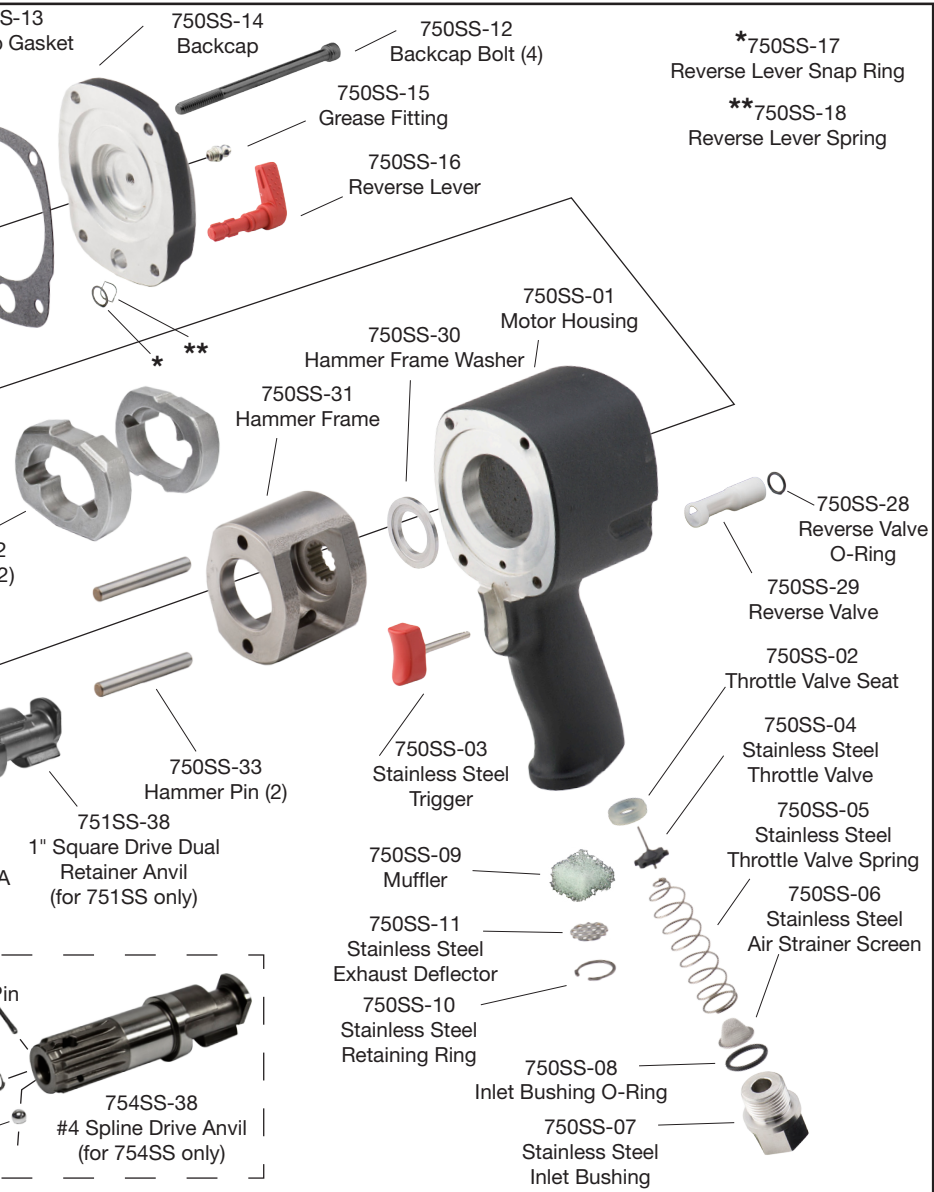
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MICHIGAN PNEUMATIC TOOL, INC.

MP-750SS 3/4" Pistol Impact
MP-751SS 1" Pistol Impact
MP-754SS #4 Spline Drive Impact





Disassembly

General Instructions

1. When disassembling tool, inspect all parts for wear and/or damage.
2. Use caution when holding the tool or any part of the tool in a vise. Always use brass (**see figure 16.1**) jaws to protect the surface of the part and prevent accidental damage.
3. Do not remove any parts that are a press fit unless it is essential in the diagnosis of the malfunction.
4. Do not disassemble tool unless you have all gaskets and O-rings for replacement. Gaskets and O-rings should not be reused after disassembly.



Figure 16.1
In preparation of disassembly, carefully clamp the anvil in a vise using copper jaws to protect the integrity of the anvil.

Disassembly of the Impact Mechanism



Figure 16.2
Turn the Reverse Lever to top dead center, or the twelve o'clock position before removing Back Cap Bolts.

1. Turn the Reverse Lever (750SS-16) to twelve o'clock (**see figure 16.2**).
2. With the tool held securely in a vise, unscrew and remove the four Back Cap Bolts (750SS-12) with a 5/32" Allen Wrench.
3. Lift the motor assembly off of the Hammer Case (750SS-35) and carefully set aside. Be sure to hold the Back Cap (750SS-14) in place so the motor does not come out of the Motor Housing (750SS-01).
4. Remove the Hammer Case Gasket (750SS-34) and discard.

Disassembly

5. Remove the Hammer Case and impact mechanism from the vise. Remove the Hammer Frame Washer (750SS-31) and set aside.

6. Lift the Hammer Case off of the impact mechanism. Remove the Hammer Pins (750SS-33) from the Hammer Frame (750SS-31). Remove the Anvil from the Hammer Frame by pulling up and rotating the Anvil back and forth. Remove the two Hammers (750SS-32) from the Hammer Frame paying careful attention to the orientation of the Hammers.

Disassembly of the Reverse Valve

1. Remove the four Back Cap Bolts and lift the Back Cap from the rear of the Motor Housing.

2. Remove the Back Cap Gasket (750SS-13) and discard it.

3. Use a hook to gently pull the Reverse Valve (750SS-28) from the Reverse Valve Bushing while paying close attention to the orientation of the through hole in the Reverse Valve. (**see figure 17.1**).

4. Remove the O-ring (750SS-28) from the Reverse Valve and discard.

5. Using the thin blade of a small flat screwdriver, gently pry the Reverse Lever Snap Ring (750SS-17) from the Reverse Lever. Remove the Reverse Lever Spring (750SS-18). Set both aside. Remove the Reverse Lever from the Back Cap.



Figure 17.1

Using a hook to get it started, gently pull the Reverse Valve from the Reverse Valve Bushing.

Disassembly

Disassembly of the Motor Assembly

1. Remove the four Back Cap Bolts and the Back Cap. Remove the Motor Clamp Washer (750SS-19) and set aside.

2. Lift the Motor Housing Assembly from the Impact Mechanism. Use care to hold the rear of the Motor so it does not fall out.

3. Gently finesse the entire Motor Assembly from the rear of the Motor Housing (750SS-01), being careful not to lose the Locating Pin (750SS-21A). (**see figures 18.1 and 18.2**).

4. Place the entire Motor Assembly on a clean rag with the spline of the Rotor (750SS-22) facing up. Remove the Front End Plate (750SS-26) and Cylinder (750SS-25). Remove the Vanes (750SS-23) and Rear End Plate (750SS-21) from the Rotor.

5. Inspect all Motor parts, including the bearings (750SS-27 and 750SS-20) for damage or wear and replace if needed. Pay particular attention to the integrity of the Cylinder Pins (750SS-24), if they are collapsed or damaged, replace.



Figure 18.1



Figure 18.2

Gently finesse the Motor Assembly out of the rear of the Motor Housing.

NOTICE: Keep the motor as straight as possible to ease removal.

Disassembly

Disassembly of the Motor Housing

1. Hold the Motor Housing in a vice using Copper Jaws. Clamp against the front and rear of the Housing (*see figure 19.1*).

NOTICE: Never clamp on the sides of the Housing as damage is likely to occur.

2. Using a 1" box wrench, remove the Inlet Bushing (750SS-07). Remove the O-ring (750SS-08) from the Inlet Bushing and discard. Remove the Air Strainer Screen (750SS-06), the Throttle Valve Spring (750SS-05) and the Throttle Valve (750SS-04) from the Housing and set aside.

3. To remove the Throttle Valve Seat (750SS-02), slide a flat hook under the seat and firmly pull up (*see figure 19.2*).

4. Using internal snap ring pliers, collapse and remove the Retaining Ring (750SS-20). Remove the Exhaust Deflector (750SS-11) using a pair of needle nose pliers. Remove the Muffler (750SS-09) from the Housing and discard. Always use a new Muffler for reassembly.



Figure 19.1

Always clamp the Motor Housing against the front and rear of the Housing. Never clamp against the sides of the housing as damage can easily occur.

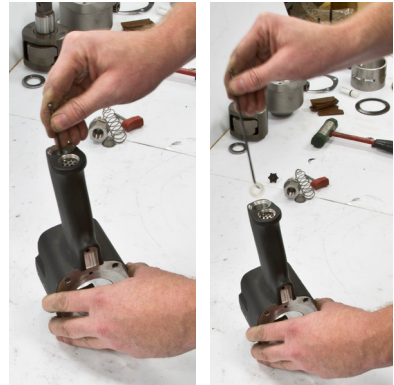


Figure 19.2

Slide a flat hook under the Throttle Seat and firmly pull up to dislodge it from the Motor Housing.

Assembly

General Instructions

1. When holding a tool in a vice always use care and copper jaws to protect the integrity of the part that you are holding.

2. Prior to reassembly, clean every part using a mild solvent to remove all grease, oil, and debris. Apply a thin layer of recommended air tool oil to all motor and throttle components as you reassemble. Coat the impact mechanism parts with approximately 15 cc of recommended grease. Apply a thin film of O-ring lubricant to all O-rings before they are installed on the part.

3. Check bearings to be sure they are smooth. Push and pull on the inner race as you turn it while holding the outer race in your opposite hand. If there is any roughness noticed, replace the bearing. Work a fair amount of grease back into the bearing whether reusing the old bearing or replacing it with a new one.

4. Always press bearings by using a drift and **ONLY** applying pressure to the inner race of the ball bearing when pressing onto a shaft. Always press bearings by using a drift and **ONLY** applying pressure to the outer race when pressing into a recess.

Assembly of the Motor Housing

1. Install a new Throttle Valve Seat by pushing it firmly into the housing using a 13/16" drift. Be sure that the Throttle Valve Seat is seated all of the way down in its recess (**see figures 20.1 & 20.2**).



Figure 20.1

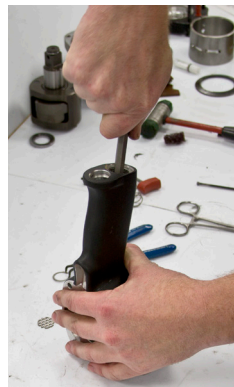


Figure 20.2

Using a 13/16" drift, firmly push the Throttle Valve Seat into the housing. Be sure that it is seated completely

Assembly

2. While holding the Trigger (750SS-03) in a neutral position with one hand, hold the Throttle Valve by the short end of the stem with a pair of forceps. Carefully guide the opposing end of the stem into the relief of the Trigger (*see figure 21.1*).



Figure 21.1

Using a pair of forceps, carefully guide the Throttle Valve into the housing, be sure the stem engages with the Trigger correctly.

3. Install the Throttle Valve Spring into the Motor Housing small end first so the first coil of the spring encloses the short end of the stem on the Throttle Valve. Install the Air Strainer, coned side first, into the large diameter of the Throttle Valve Spring.

4. Replace the O-ring (750SS-08) on the Inlet Bushing making sure that it is properly lubricated.

5. Install the Inlet Bushing into the Motor Housing by screwing it in until snug. Tighten to 55 ft-lbs of torque.

Assembly of the Motor

1. Pack both bearings with a fair amount of recommended grease and install them in the corresponding End Plate.

2. Slide the Rear End Plate Assembly onto the non-splined end of the Rotor. Set the partially assembled Motor down, spline side up, on a clean rag.

3. Insert the vanes all of the way in to each slot on the Rotor.

4. Slide the Vanes into the Rotor slots. Install the Cylinder Assembly over the Rotor making sure that the Cylinder pin is aligned with the slot on the Rear End Plate.

NOTICE: For Reverse Bias, install the Cylinder with the three exhaust holes on the LEFT of the Cylinder Pin, or 11 o'clock position. For Forward Bias, install the Cylinder with the three exhaust holes to the RIGHT of the Cylinder Pin, or 1 o'clock position (*see figure 22.1*).

Assembly



Reverse Bias



Forward Bias

Figure 22.1

For Reverse Bias, install the Cylinder with the three exhaust holes to the LEFT of the Cylinder Pin. For forward bias, install the Cylinder with the three exhaust hole to the RIGHT of the Cylinder Pin.

5. Slide the Front End Plate Assembly over the splined end of the Rotor while being sure that the Cylinder Pin aligns with the slot in the Front End Plate.

6. Carefully guide the Motor Assembly into the Motor Housing being sure that the Cylinder Pin stays at top center, or the 12 o'clock position. Keep the Motor straight with the Motor Housing. A small amount of heat applied to the Motor housing may be needed for proper assembly.

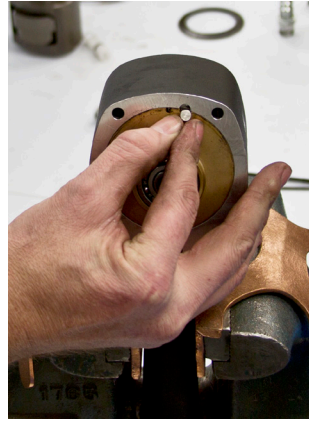


Figure 22.2

Install the Locating Pin as shown

7. Install the Locating Pin (750SS-21A). (*see figure 22.2*)

8. Install the Motor Clamp Washer against the Rear End Plate being sure that the large diameter of the Motor Clamp Washer resting against the Rear End Plate.

Assembly of the Reverse Valve

1. Apply a film of O-ring lubricant to the Reverse Valve O-ring (750SS-28) and install it on the Reverse Valve.

2. Carefully slide the Reverse Valve into the Reverse Valve Bushing. Use care as to not tear the O-ring on the edge of the

Assembly

Reverse Valve Bushing. Be sure that the slots are vertical and that the through hole is at top center, or the 12 o'clock position.

3. Install the Reverse Lever through the back of the Back Cap. Carefully slide the Reverse Valve Spring over the shaft of the Reverse Lever. Secure the Reverse Lever and Reverse Lever Spring by installing the Reverse Lever Snap Ring using the blade of a small flat screwdriver.

4. Turn the Reverse Lever to top center, or the 12 o'clock position.

Assembly of the Impact Mechanism

1. Apply a thin coat of recommended grease to all surfaces of both Hammers and the inside of the Hammer Frame.

2. Slide the Hammers into the Hammer Frame in the exact same orientation they were before disassembly. (*see figure 23.1*).

3. Apply a generous coat of grease to the lobe end of the anvil. Slide the anvil into the Hammer Frame and through the Hammers. Gently turn the anvil back and forth slightly until it is

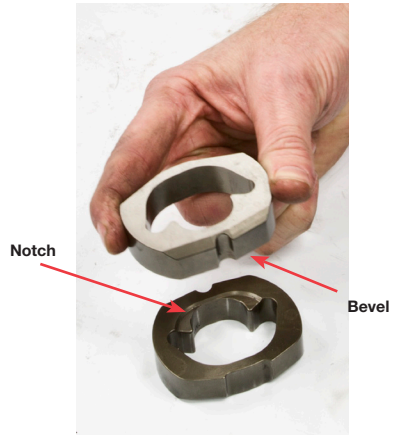


Figure 23.1

Slide the Hammers in the Hammer Frame so the half round notches are on the opposite sides. Ensure the bevels are facing away from one another.

seated all of the way into the Hammer Frame.

4. Install the Hammer Pins while gently turning the anvil back and forth.

5. Apply a thin coat of grease to the inside of the Hammer Case being sure to lubricate the Hammer Case Bushing (750SS-36). Slide the Hammer Case over the Impact Mechanism with "MADE IN USA" facing the top of the tool. Turn the assembly over and install it in a vice holding it by the anvil. Install the Hammer Case Gasket.

Assembly

6. Slide the Hammer Frame Washer over the spline of the Rotor being sure that the raised edge of the Hammer Frame Washer rests against the Front Rotor Bearing.

7. While holding the Hammer Frame Washer in place with a dollop of grease, carefully set the Motor Housing Assembly onto the Impact Mechanism making

sure that the Rotor and Hammer Frame align correctly.

8. Install the four Back Cap Bolts and snug them down.

NOTICE: Be sure that the Motor Clamp Washer stays in place while tightening Back Cap Bolts. Tighten them to 12 ft-lbs of torque in a crisscross pattern.

Troubleshooting

Trouble	Possible Cause	Solution
Low Power	Restriction in Air Strainer Screen /Muffler	Remove Inlet Bushing, Air Strainer Screen, and Muffler. Clean with a suitable solvent in a well ventilated work space. Replace Inlet Bushing, Air Strainer Screen, and Muffler.
Low Power	Worn and/or broken Vanes	Remove the Motor Assembly. Discard the Vanes and replace ALL SEVEN Vanes with new ones.
Low Power	Worn/damaged Cylinder	Remove Motor Assembly. Inspect the inner diameter of the Cylinder. If there is any scoring or a wear marks, replace with a new one.
Low Power	Debris in Motor Assembly/Motor Housing	Completely disassemble tool. Clean all parts with a suitable solvent in a well ventilated work space. Reassemble tool using a Tune Up Kit (750SS-TK2).
Motor will not run	Reverse Valve installed incorrectly.	Remove the Back Cap. Remove the Reverse Valve and turn 180 degrees. Re-install Reverse Valve and Back Cap (see Assembly of the Reverse Valve, page 22).
Motor will not run	Swollen Vanes	Remove the Motor Assembly. Discard the Vanes and replace ALL SEVEN Vanes with new ones.
Motor will not run	Motor is assembled incorrectly	Remove Motor Assembly. Inspect the parts to be sure they are installed correctly (see Assembly of the Motor, page 21).
Motor runs without actuating Trigger	Worn Throttle Valve/ Throttle Valve Seat	Replace the Throttle Valve Seat and Throttle Valve (see Assembly of the Motor Housing, page 20).
Tool runs, but will not impact	Lack of grease in the Impact Mechanism.	Inject 4-5 cc of grease into the grease fitting.
Tool runs, but will not impact	Broken and/or worn Impact Mechanism parts	Remove the Hammer Case and inspect all parts in the Impact Mechanism. Replace all worn/and or broken parts.
Tool runs, but will not impact	Impact Mechanism not assembled correctly	Remove the Hammer Case and inspect all parts in the Impact Mechanism. Inspect the parts to be sure they are installed correctly. Pay particular attention to the orientation of the Hammers (see figure 23.1).
Tool is locked up	Hammer Case Bushing not installed correctly	Remove the Hammer Case. Using an arbor press, be sure that the Hammer Case Bushing is pressed all of the way into the Hammer Case until it bottoms out.

Limited Warranty

MPT guarantees to the original purchaser this tool to be free of defects in material and workmanship for a period of one hundred eighty (180) days after shipment. This guarantee is limited to the repair or replacement of any part(s), upon our examination, which prove to have been defective. This guarantee does not cover damage caused by normal wear or misuse due to lack of lubrication, excessive air pressure, water or other contaminants from the air line, cosmetic damage or damage due to negligence, misuse, abuse, failure to follow operating instructions or accidental spills, damage due to environmental causes such as floods, airborne fallout, chemicals, salt, hail, windstorms, or lightning,

damage due to accidents, fire, theft, or vandalism, damage due to improper connection or modification of equipment, product(s) which have been opened or tampered with for any reason or which have been damaged due to alteration, or repair by other than an authorized **MPT** service center.

Except as expressly set forth in this warranty, **MPT** makes no other warranties, expressed or implied, including any implied warranties of merchantability and fitness for a particular purpose. **MPT** expressly disclaims all warranties not stated in this limited warranty. Any implied warranties that may be imposed by law are limited to the terms of this expressed limited warranty.

For Your Records:

Dealer Contact Name _____

Dealer Contact Phone _____

Date of Purchase _____

Serial Number _____

Notes



MICHIGAN PNEUMATIC TOOL

Industrial Air Tools

6850 Middlebelt Rd. • P.O. Box 906
Romulus, MI 48174-7406

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