ORIGINAL INSTRUCTIONS

S/N: 1001 AND ABOVE PLEASE CONTACT GAGE BILT FOR ALL OTHER SERIAL NUMBERS.

GB756SHINSTALLATION TOOL



PATENT PENDING











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GAGE BILT



DECLARATION OF CONFORMITY

MANUFACTURER: Gage Bilt Inc. 44766 Centre Ct. Clinton Twp. Michigan U.S.A. +1(586-226-1500)

WE DECLARE THAT THE EQUIPMENT SPECIFIED HEREIN CONFORMS TO THE FOLLOWING DIRECTIVES AND STANDARDS

Machinery Directive 2006/42/EC EN12100-1 & 12100-2:2010 EN ISO 11148-1:2011

EU REPRESENTATIVE: Edgar Hausmann GmbH Förster-Busch-Str. 10 D-34346 Hann. Münden Germany

EQUIPMENT DESCRIPTION: GB756SH FASTENER INSTALLATION TOOL

This product specified above conforms to the above directives and standards.

SIGNATURE:

NAME: BRIAN LEIGH

PRODUCT MANAGER CLINTON TWP., MI U.S.A.

AUG 2019

+1(586) 226-1500

WARRANTY

Seller warrants that all goods covered by this catalog will conform to applicable specifications and will replace or repair, EXW our plant, any goods providing defective from faulty workmanship, or material, for 1 year from date of shipment.

Said warranty to remain in effect if, and only if, such goods are used in accordance with all instructions as to maintenance, operation and use, set forth in manuals and instruction sheets furnished by seller.

Sellers obligation under this warranty shall be limited to the repair or rework of the goods supplied or replacement thereof, at Seller's option, and in no case is to exceed the invoice value of said goods. Under no circumstances will the seller be liable for incidental or consequential damages or for damages incurred by the buyer or subsequent user in repairing or replacing defective goods or if the goods covered by this warranty are reworked or subjected to any type of additional processing.

This warranty is void if Seller is not notified in writing of any rejections or defects within 1 year after the receipt of the material by the customer.

THIS WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING MERCHANTABILITY.

DESCRIPTION



↑ WARNING: Any other use is forbidden.

The GB756SH is a pneudraulic split handle installation tool designed specifically for the efficient installation of blind, lockbolt and Magna-Grip® fasteners thru 3/8" diameter.

The handle weighs 4.1 lbs. (1.9 kg) and can be operated in any position. It has a .960" (24.4mm) fastener setting stroke and a rated pull load of 10,000 lbs. (44.5kN).

The GB756SH installation tool operates on 90 to 100 psi (6.2-6.9 bar) Max. of air pressure. At 90 psi. (6.2 bar) of air pressure, the GB756SH does not exceed 81.5 dB(A) and consumes .29 SCF/cycle (8.21 L/cycle).

The air inlet is provided with 1/4-18 female pipe thread for accepting the user's air hose fitting.

Nose Assemblies that were designed for the model 353 installation tool mount directly on the GB756SH without the use of an adapter.

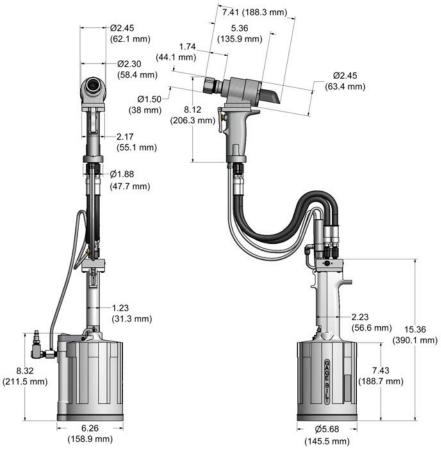
Nose Assemblies that were designed for the model 352 installation tool will attach to the GB756SH with the use of the 745751 nose assembly adapter.

NOSE ASSEMBLIES ARE NOT FURNISHED WITH THIS TOOL AND MUST BE ORDERED SEPARATELY (SEE NOSE ASSEMBLY **SELECTION CHART PG. 20).**

ENVIRONMENTAL USE

MARNING: Do not operate in an explosive atmosphere.

The GB756SH can be operated between 0°F - 118°F (-17.8°C / 47.8°C)



TECHNICAL SPECIFICATIONS

Hand Held Weight Total Weight Air pressure reg'd Air consumption

4.1 lbs (1.9 kg). 15.9 lbs (7.2 kg). 90-100 p.s.i. (6.2-6.9 bar) Max.

Hydraulic Oil

.29 SCF/cycle (8.21 L/cycle) **Automatic Transmission Oil,** Dexron® III, or equivalent.

Setting stroke - .960" (24.4mm) Rated pull load - 10,000 lbs. (44.5kN) Noise level - 94.3 dB(A) Peak - Tested- No hazards found. Vibration

DESCRIPTION OF FUNCTIONS



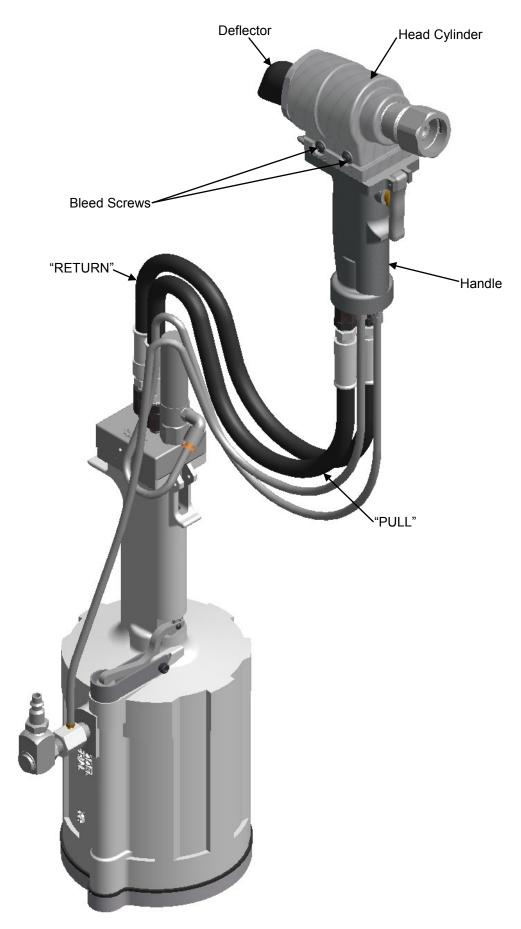


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SAFETY WARNINGS



TERMS AND SYMBOLS



Product complies with requirements



Hearing protection and eye protection



- Read manual prior to using equipment



- Foot protection



WARNINGS - Must be understood to avoid severe personal injury.



CAUTIONS - show conditions that will damage equipment and/or structure.

Notes - are reminders of required procedures.

GENERAL SAFETY RULES:

- 1. For multiple hazards, read and understand the safety instructions before installing, operating, repairing, maintaining, changing accessories on, or working near the assembly power tool for non-threaded mechanical fasteners.
- 2. Only qualified and trained operators should install, adjust or use the assembly power tool for non threaded mechanical fasteners.
- 3. Do not modify this assembly power tool for non-threaded mechanical fasteners. Modifications can reduce effectiveness of safety measures and increase the risks to the operator.
- 4. Do not discard safety instructions; give them to the operator.
- 5. Do not use assembly power tool for non-threaded mechanical fasteners if it has been damaged.
- 6. Tools shall be inspected periodically to verify all ratings and markings required are legible. The employer/user shall contact the manufacturer to obtain replacement marking labels when necessary.
- 7. Air under pressure can cause severe injury.
- Always shut off air supply, drain hose of air pressure and disconnect tool from air supply when not in use, before changing accessories or when making repairs.
- 9. Never direct air at yourself or anyone else.
- 10. Whipping hoses can cause severe injury. Always check for damage or loose hoses and fittings.
- 11. Cold air shall be directed away from hands.
- 12. Whenever universal twist couplings (claw couplings) are used, lock pins shall be installed and whipcheck safety cables shall be used to safeguard against possible hose-to-tool or hose-to-hose connection failure.
- 13. Do not exceed the maximum air pressure stated on the tool or manual.
- 14. Never carry an air tool by the hose.

ADDITIONAL SAFETY RULES FOR PNEUDRAULIC POWER TOOLS:

- 1. Air under pressure can cause severe injury.
- 2. Always shut off air supply, drain hose of air pressure and disconnect tool from air supply when not in use, before changing accessories or when making repairs.
- 3. Never direct air at yourself or anyone else.
- 4. Whipping hoses can cause severe injury. Always check for damage or loose hoses and fittings.
- 5. Cold air shall be directed away from hands.
- 6. Whenever universal twist couplings (claw couplings) are used, lock pins shall be installed and whipcheck safety cables shall be used to safeguard against possible hose-to-tool or hose-to-hose connection failure
- 7. Do not exceed the maximum air pressure stated on the tool or manual.
- 8. Never carry an air tool by the hose.

PROJECTILE HAZARDS:

- 1. Disconnect the tool from the energy source when changing inserted tools/nose assemblies or accessories.
- 2. Be aware that failure of the workpiece or accessories, or even the inserted tool/nose assembly itself can generate high-velocity projectiles.
- 3. Always wear impact resistant eye protection during operation of the tool. The grade of protection required should be assessed for each use.
- 4. The risk to others should also be assessed at this time.
- 5. Ensure that the workpiece is securely fixed.
- 6. Check that the means of protection from ejection of fastener and/or stem is in place and operative (such as the deflector)
- 7. Forcible ejection of the mandrel from the front of the nose assembly is possible

OPERATING HAZARDS:

- 1. Use of tool can expose the operator's hands to hazards, including crushing, impacts, cuts, abrasions and heat. Wear suitable gloves to protect hands.
- 2. Operators and maintenance personnel shall be physically able to handle the bulk, weight and power of the tool.
- 3. Hold the tool correctly; be ready to counteract normal or sudden movements and have both hands available.
- 4. Maintain a balanced body position and secure footing.
- 5. Release the start-and-stop device in the case of interruption of energy supply.
- 6. Use only lubricants recommended by the manufacturer.
- Avoid unsuitable postures as it is likely for these positions not to allow counteracting of normal or unexpected movement of the tool.
- 8. If the tool is fixed to a suspension device, make sure that fixation is secure.
- 9. Beware of the risk of crushing or pinching if nose equipment is not fitted.
- 10. Due to the tool weight, it is recommended safety shoes be worn during operation.
- 11. It is recommended tool be operated not more than 50 out of every 60 minutes, where prolonged use is expected.

REPETITIVE MOTIONS HAZARDS:

- 1. When using the tool, the operator can experience discomfort in the hands, arms, shoulders, neck or other parts of the body.
- 2. While using the tool, the operator should adopt a comfortable posture while maintaining a secure footing and avoiding awkward or off balanced postures. The operator should change posture during extended tasks; this can help avoid discomfort and fatique.
- 3. If the operator experiences symptoms such as persistent or recurring discomfort, pain, throbbing, aching, tingling, numbness, burning sensations or stiffness, these warning signs should not be ignored. The operator should tell the employer and consult a qualified health professional.

ACCESSORY HAZARDS:

- 1. Disconnect tool from energy supply before changing the nose assembly or accessory.
- 2. Use only sizes and types of accessories recommended by the manufacturer. Do not use other types or sizes of accessories.

WORKPLACE HAZARDS:

- 1. Slips, trips and falls are major causes of workplace injury. Be aware of slippery surfaces caused by use of tool and also of trip hazards caused by the air line or hydraulic hose.
- 2. Proceed with care in unfamiliar surroundings. There could be hidden hazards, such as electricity or other utility lines.
- 3. The tool is not intended for use in potentially explosive atmospheres and is not insulated against contact with electrical power.
- 4. Ensure that there are no electrical cables, gas pipes, etc., which can cause a hazard if damaged by the tool.

NOISE HAZARDS:

- 1. 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.
- 2. Appropriate controls to reduce the risk may include actions such as damping materials to prevent workpieces from "ringing".
- 3. Use hearing protection in accordance with employer's instructions and as required by occupational health and safety regulations.
- 4. Operate and maintain the assembly power tool for non-threaded mechanical fasteners as recommended in the instruction handbook, to prevent an unnecessary increase in the noise level
- 5. Select, maintain and replace the consumable/inserted tool as recommended in the instruction handbook, to prevent an unnecessary increase in noise
- 6. If the power tool has a silencer, always ensure that it is in place and in good working order when the power tool is being operated.

VIBRATION HAZARDS:

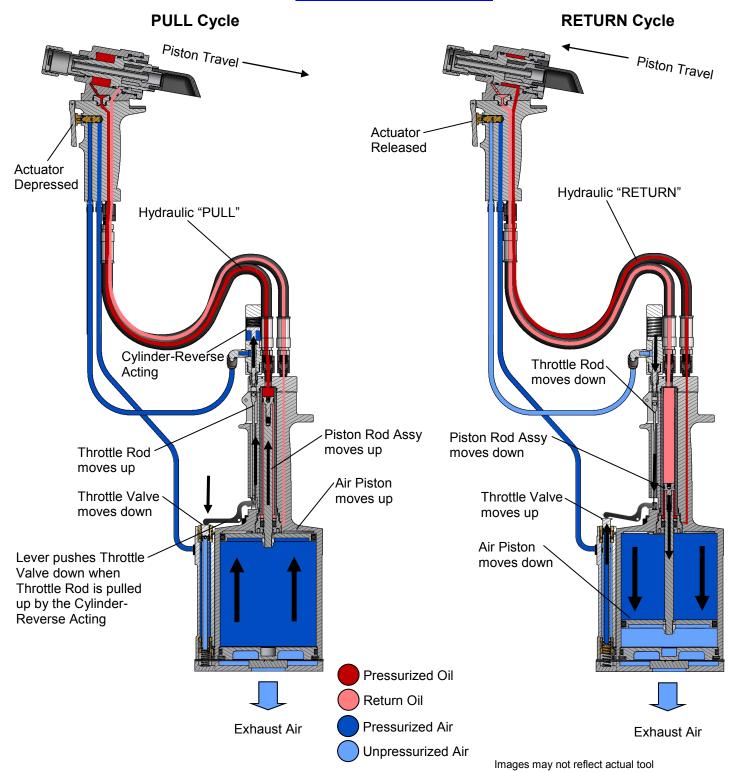
- 1. Exposure to vibration can cause disabling damage to the nerves and blood supply of the hands and arms.
- 2. Wear warm clothing when working in cold conditions and keep your hands warm and dry.
- 3. If you experience numbness, tingling, pain or whitening of the skin in your fingers or hands, stop using the assembly power tool for non-threaded mechanical fasteners, tell your employer and consult a physician.
- 4. Support the weight of the tool in a stand, tensioner or balancer, because a lighter grip can then be used to support the tool.

PRINCIPLE OF OPERATION



When the actuator is depressed, air is directed into the cylinder-reverse acting. A shaft that is built into the reverse acting cylinder is connected to the Throttle Rod. The Throttle Rod is connected to a Lever. As air is directed to the reverse acting cylinder, the shaft retracts pulling up on the Throttle Rod that is simultaneously pulling up on the Lever. As the Lever is pulled up, it is toggling at the other end pushing down on the Throttle Valve. When the Throttle Valve is fully depressed, it directs pressurized air inside the tool to the bottom of the air piston assy moving it upward. The air above the air piston assy is being directed out the exhaust located on the bottom of the handle assembly. The piston rod assy, connected to the air piston assy, is also moving upward forcing hydraulic oil through the hydraulic line and up into the front of the head cylinder causing the piston assy to move to the rear of the head cylinder. The oil from the rear of the head cylinder is directed to the bottom side of the piston rod assembly inside the handle assy. The internal components of the attached nose assembly are also moving with the piston assy to start the fastener installation. When the fastener installation is completed, the actuator is released, allowing spring pressure to move the Throttle Valve and the Reverse Acting Cylinder back to their original position and directing air pressure to the top side of the air piston assy reversing the sequence.

PNEUDRAULIC DIAGRAM



HOW TO SET-UP THE GB756SH



<u>WARNING</u>: Only qualified and trained operators should install, adjust or use the assembly power tool for non-threaded mechanical fasteners.

↑ WARNING: Operator MUST read and understand all warnings and cautions.

MARNING: It is required that eye protection, hearing protection and safety boots be worn at all times while handling this

equipment.

<u>WARNING</u>: The users or the user's employer should assess specific risks that could be present as a result after each use based on their application.

- Be sure there is adequate clearance for tool and operator's hands before proceeding. Keep fingers clear of any moving parts. Keep fingers clear from fasteners and installed materials. Severe personal injury may result.
- Verify the air lines and/or hydraulic hoses are not a trip hazard.
- Ensure that there are no electrical cables, gas pipes, etc., which can cause a hazard if damaged by the tool

MARNING: Do not pull fastener in the air. Personal injury from fastener ejecting may occur.

MARNING: Air is exhausted from the bottom of the tool. Direct bottom of the tool (exhausted air) away from operator, other

persons working in the vicinity, foreign matter and liquid.

<u>MARNING</u>: Do not carry from hoses or use as a hammer.

MARNING: Do not use in explosive atmosphere.

WARNING: Ensure air hose is securely connected to avoid possible hose whipping.

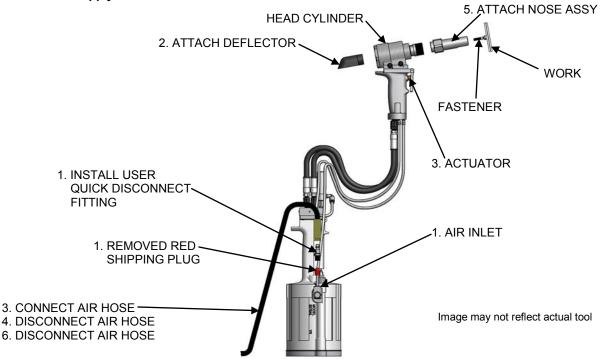
MARNING: Always disconnect air supply when tool is not in use to prevent accidental start-up.

WARNING: Be sure there is adequate clearance for tool and operator hands.

CAUTION: Do not use beyond the design intent.

The tool is shipped with a red plastic plug in the air inlet connector. The connector has a 1/4-18 NPT female pipe thread to accept enduser air hose fitting. The tool comes with oil and is ready to use.

- 1. Remove red plastic shipping pipe plug (A-204) from swivel (A-249) (the air inlet) and screw in your quick disconnect (air) fitting.
- 2. Attach Deflector (756120) to rear of Head Cylinder (756300).
- 3. Connect tool to air hose with 90 psi. (6.2 bar) using clean, dry air. 3/8 minimum diameter air line is recommended. Cycle tool five times by depressing and releasing the actuator lever assy (704343).
- 4. Disconnect air hose from tool.
- 5. Select proper nose assembly and stroke limiter (if applicable) (see nose selection chart pg. 20). For further information see pages 9 & 20. Screw collet assy onto piston assy and slide anvil over collet, secure with retaining nut stop (480125) and retaining nut (480124). (See proper data sheet for further instructions).
- 6. Connect air supply.



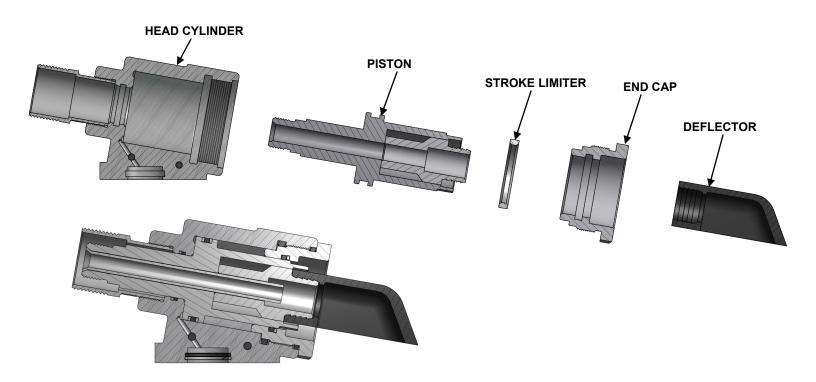
NOSE ASSEMBLIES



Nose assemblies are attached using a 1-1/4 inch socket on the rear of the piston assy. Socket (A-1307) may be ordered separately from Gage Bilt. (GB756SHTK) service tool kit may also be ordered separately which includes socket (A-1307) and other tools needed for complete tool overhaul. (See pg. 15).

When attaching offset and right angle nose assemblies an adapter and stroke limiter is necessary. Refer to nose assembly selection chart on pg. 20 for the adapter and stroke limiter for your specific nose assembly. Follow instructions below for installation of stroke limiter.

STROKE LIMITERS ARE DESIGNED FOR THE PROTECTION OF THE OPERATOR AND EQUIPMENT. FAILURE TO OPERATE A TOOL WITHOUT A STROKE LIMITER WILL RESULT IN DAMAGE TO NOSE ASSEMBLY OR TOOL AND MAY RESULT IN PERSONAL INJURY. IF YOU ARE UNSURE YOUR NOSE ASSEMBLY REQUIRES A STROKE LIMITER CONTACT GAGE BILT.



STROKE LIMITER INSTRUCTIONS

- 1. Disconnect air supply from tool.
- 2. Remove rear bleed screw from hole marked #2 on the head cylinder (756300). CAUTION: Rear bleed screw (hole marked #2 on the head cylinder (756300) may be under pressure.
- 3. Remove deflector (756120) and end cap (756116). CAUTION: Pour hydraulic oil into a container.
- 4. Slide stroke limiter over the rear of the piston assy (756211).
- 5. Tighten end cap onto head cylinder and re-attach deflector (756120). See torque spec on pg. 11.
- 6. Refer to bleeding procedure (RETURN Pressure Only) steps #8 thru 15 on pg13.

HOW TO USE THE GB756SH



MARNING: Only qualified and trained operators should install, adjust or use the assembly power tool for non-threaded mechanical fasteners.

MARNING: Operator MUST read and understand all warnings and cautions.

MARNING: It is required that eye protection, hearing protection and safety boots be worn at all times while handling this

equipment.

<u>WARNING</u>: The users or the user's employer should assess specific risks that could be present as a result after each use based on their application.

- Be sure there is adequate clearance for tool and operator's hands before proceeding. Keep fingers clear of any moving parts. Keep fingers clear from fasteners and installed materials. Severe personal injury may result.
- Verify the air lines and/or hydraulic hoses are not a trip hazard.
- Ensure that there are no electrical cables, gas pipes, etc., which can cause a hazard if damaged by the tool

<u>MARNING</u>: Do not pull fastener in the air. Personal injury from fastener ejecting may occur.

MARNING: Air is exhausted from the bottom of the tool. Direct bottom of the tool (exhausted air) away from operator, other

persons working in the vicinity, foreign matter and liquid.

MARNING: Do not carry from hoses or use as a hammer.

MARNING: Do not use in explosive atmosphere.

<u>MARNING</u>: Ensure air hose is securely connected to avoid possible hose whipping.

MARNING: Always disconnect air supply when tool is not in use to prevent accidental start-up.

WARNING: Be sure there is adequate clearance for tool and operator hands.

<u>A</u> CAUTION: Do not use beyond the design intent.

Lockbolts:

#1. Insert fastener through the work piece.



#2. Slide collar over fastener.



#3. Insert fastener into nose assembly.



- #4. Press actuator to start cycle.
- #5. Release actuator as soon as fastener breaks.
- #6. Repeat steps 1-5.

Blind Fasteners:

1. Insert fastener into the work piece.



2. Insert fastener into nose assembly.

Note: Always hold tool so pulling head is perpendicular to surface of material in which fastener is being installed.

Exert firm pressure against fastener during installation.



3. Press actuator to start cycle.



- 4. Release actuator as soon as fastener breaks.
- Repeat steps 1-4.

Images may not reflect actual tool or fastener

DAILY MAINTENANCE



⚠ WARNING: Tool must be maintained in a safe working condition at all times and examined on a daily basis for damage or wear. Any repair should be done by qualified personnel trained on Gage Bilt procedures.

MARNING: Excessive contact with hydraulic oil and lubricants should be avoided.

MARNING: Maintenance personnel MUST read and understand all warnings and cautions.

MARNING: Disconnect tool from its power source before performing maintenance, cleaning or when replacing worn or

damaged components. Severe personal injury may occur if power source is not disconnected.

MARNING: Read SDS documents for all applicable materials.

Note:

- Dispose of hydraulic oil in accordance with manufacture safety datasheet.
- All tool materials are recyclable except rubber o'rings, seals and wipers.

The performance of any tool depends upon good maintenance practices. Following these minimal requirements daily will extend the life of your tool.

- * Only use a clean dry air supply set at 90 (6.2 bar) -100 p.s.i. (6.9 bar) equipped with a filter-regulator to prevent wear.
- *Check tool and nose assembly for damage. (Replace/Repair if necessary). See Overhaul (pgs. 14-16) for tool repair.
- *Inspect hoses and couplings for wear, damage and leaks. (Replace/Repair if necessary). (See hydraulic thread prep. below).
- *Cycle the tool several times to assure there are no leaks during use. (See hydraulic thread prep. below).
- * Keep hydraulic system free of dirt.
- * Proper care by operators is necessary in maintaining full productivity and reducing downtime.
- * Keep nose assemblies, especially jaws, clean and free of chips and debris.

WEEKLY MAINTENANCE

Keep the hydraulic system full (only use Dexron® III or equivalent) and free of air by using the air bleeder assy (704153) (sold separately) on a weekly basis or as needed. (See Filling and Bleeding procedure pgs. 12-13).

SEE TROUBLESHOOTING (PG. 14) AND OVERHAUL (PGS. 14-16) FOR FURTHER GUIDANCE.

HYDRAULIC THREAD PREPARATION

IMPORTANT: Be sure to use thread sealant on all hydraulic fittings, Loctite® 545 or equivalent or a non-hardening Teflon® thread compound such as Slic-tite®. Tighten until fitting feels snug and then continue to tighten 1/2 to 1 full turn. CAUTION: Over tightening can easily distort the threads. DO NOT USE TEFLON® TAPE. CAUTION: Teflon® tape is an excellent thread sealer, however, if it is not properly applied, pieces of Teflon® may enter the hydraulic system and cause malfunction or damage.

CLEANING AND LUBRICATING PROCEDURE

Daily cleaning and lubrication of nose assembly will greatly reduce downtime and increase life of components. Using sewing machine oil, or an equivalent cleaner/lubricant, follow instructions below.

CLEANING

Clean nose assy daily or as often as needed.

- 1. Dip into mineral spirits or similar solvent to clean jaws and wash away metal chips and debris. DO NOT allow jaws to come in contact with other solvents. DO NOT let jaws soak. Dry jaws immediately.
- 2. Disassemble nose assy and use a sharp "pick" to remove embedded particles from grooves of jaws.

LUBRICATING

Lubricate nose assy after each cleaning and as often as needed.

- 1. Disconnect tool vacuum line (if equipped).
- 2. Point nose assembly into oil as shown.
- 3. Cycle tool 8-10 times and wipe dry.

TORQUE SPECIFICATIONS

Button Head Cap Screws (402479) = 35-40 inch lbs. Packing Plug (756218) = 45 foot lbs. Flexlock Nut (A-1089) = 17 foot lbs. End Cap (756116) = 50 foot lbs Button Head Cap Screws (402482)= 35-40 inch lbs. (Do NOT over-tighten)

Image may not

reflect actual tool

FILLING PROCEDURE



WARNING: Do not cycle tool without air bleeder assy (704153) (sold separately), or the screw and stat-o-seal, installed in tool head. Severe personal injury could result.

CAUTION: Before filling handle assy, air piston assy should be all the way down.

CAUTION: When forcing piston rod assy (756134) downward, with head cylinder (756300) removed, hydraulic oil will eject forcibly from handle assy (756229).

CAUTION: When bleeding tool, ensure tubing is free from kinks or other obstructions.

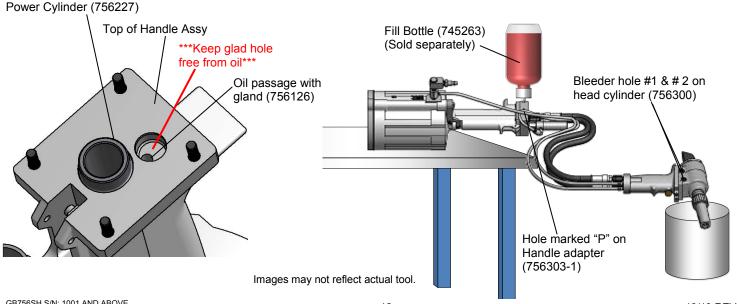
▲ CAUTION: Use CAUTION when removing screws, air bleeder assy (704153) and fill bottle (745263) (sold separately). Hydraulic oil may be under pressure.

Note:

• Fill Bottle (745263) (sold separately) is required.

IMPORTANT: Be sure to use thread sealant on all hydraulic fittings, Loctite® 545 or equivalent or a non-hardening Teflon® thread compound such as Slic-tite®. Tighten until fitting feels snug and then continue to tighten 1/2 to 1 full turn. **CAUTION:** Over tightening can easily distort the threads. DO NOT USE TEFLON® TAPE. **CAUTION:** Teflon® tape is an excellent thread sealer, however, if it is not properly applied, pieces of Teflon® may enter the hydraulic system and cause malfunction or damage.

- 1. Put the tee-wrench (A-139) into the top of handle assy (756229), pushing down firmly until piston rod assy (756134) is completely in the down position.
- 2. Fill oil passage and power cylinder (756227) with Automatic Transmission Oil Dexron® III. When looking at the top of the handle assy (756229) the oil passage is the hole where the gland-return (756126) is located.
- 3. Install gland-return (756126), gasket (756148-1), button head cap screws (402479) and handle adapter (756303-1) to handle assy (756229), keeping hydraulic hose assy (A-1437) (2X) upwards.
- Remove head cylinder (756300) from handle-machined (756314). Be sure piston assy (756211) is to the front (Dim "A" on pg. 13). Install gasket (756148), gland-return (756126) and button head cap screws (402479) on handle-machined (756314). Assemble head cylinder (756300) to handle-machined (756314).
- 5. Coil tool up on bench and lay handle assy (756229) down on side so that the hole marked "P" on side of handle adapter (756303-1) is to the top. Rest head cylinder (756300) over a small bucket or can. Completely fill up fill bottle (745263).
- 6. Connect fill bottle to handle adapter (756303-1) side hole marked "P". Remove button head cap screw (402482) and stat-o-seal (S572) from head cylinder (756300) hole marked #1.
- 7. In one continuous squeeze force oil into handle adapter (756303-1) until oil starts to flow from bleeder hole on head cylinder (756300) marked #1. While still squeezing the fill bottle, use other hand to replace button head cap screw (402482) and stat-o-seal (S572). This may require two people. Torque to 35 inch lbs. Do not over tighten.
- 8. Remove fill bottle and replace stat-o-seal (S572) and button head cap screw (402482) in handle adapter (756303-1) on side hole marked "P". Torque to 35 inch lbs. Do not over tighten.
- 9 . Connect fill bottle to rear hole on handle adapter (756303-1) hole marked "R". Remove button head cap screw (402482) and stat-o-seal (S572) from bleeder hole on head cylinder (756300) marked #2.
- 10. Repeat step #7 using bleeder hole marked #2.
- 11. Remove fill bottle and replace button head cap screw (402482) and stat-o-seal (S572) in bleeder hole on head cylinder (756300) and in rear hole on handle adapter (756303-1) marked "R". Torque to 35 inch. lbs. Do not over tighten.
- 12. Once filling procedure is complete, follow bleeding procedure on pg. 12 steps 1-15.



BLEEDING PROCEDURE:



WARNING: Do not cycle tool without air bleeder assy (704153) (sold separately), or the screw and stat-o-seal, installed in tool head. Severe personal injury could result.

CAUTION: Before filling handle assy, air piston assy should be all the way down.

<u>CAUTION</u>: When forcing piston rod assy (756134) downward, with head cylinder (756300) removed, hydraulic oil will eject forcibly from handle assy (756229).

CAUTION: When bleeding tool, ensure tubing is free from kinks or other obstructions.

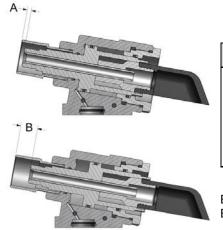
<u>CAUTION</u>: Use CAUTION when removing screws, air bleeder assy (704153) and fill bottle (745263) (sold separately). Hydraulic oil may be under pressure.

Note:

Air Bleeder Assy (704153) (sold separately) is required.

IMPORTANT: Be sure to use thread sealant on all hydraulic fittings, Loctite® 545 or equivalent or a non-hardening Teflon® thread compound such as Slic-tite®. Tighten until fitting feels snug and then continue to tighten 1/2 to 1 full turn. **CAUTION:** Over tightening can easily distort the threads. DO NOT USE TEFLON® TAPE. **CAUTION:** Teflon® tape is an excellent thread sealer, however, if it is not properly applied, pieces of Teflon® may enter the hydraulic system and cause malfunction or damage.

- 1. Stand handle assy (756229) on floor, stretch hose and head assy upward and lay flat on a table or bench. When bleeding tool always keep the head assy higher than the handle assy.
- 2. For "PULL" pressure only: Attach air bleeder assy to side hole of handle adapter (756303-1) hole marked "P" in an upright position.
- 3. Connect the tool to air supply and cycle tool ten times holding the actuator lever assy (704343) down for 2-3 seconds between cycles to remove any air from the tool. Leave piston assy (756211) in FRONT position (Dim "A" below).
- 4. Disconnect air supply. Remove air bleeder assy from side hole of handle adapter (756303-1) hole marked "P" and replace with button head cap screw (402482) and stat-o-seal (S572). Torque 35 inch lbs. Do not over tighten.
- 5. Remove button head cap screw (402482) and stat-o-seal (S572) from head cylinder (756300) side hole (marked #1) and attach air bleeder assy in an upright position.
- 6. Connect air supply. Cycle tool ten times removing any air bubbles. Leave piston assy (756211) in FRONT position (Dim "A" below).
- 7. Disconnect air supply. Remove air bleeder assy from side hole (marked #1) on head cylinder (756300) and replace button head cap screw (402482) and stat-o-seal (S572). Torque to 35 inch lbs. Do not over tighten.
- 8. <u>For "RETURN" pressure only</u>: Attach air supply, press and hold actuator lever assy (704343) leaving piston assy (756211) in <u>REAR</u> position (Dim "B" below). <u>NOTE</u>: The throttle valve (756140) <u>must</u> be manually held down with a flat head screw driver then disconnect air supply.
- 9. Attach air bleeder assy to side hole of handle adapter (756303-1) hole marked "R" in an upright position.
- 10. <u>NOTE</u>: The throttle valve (756140) <u>must</u> be manually held down with a flat head screw driver then disconnect air supply. Cycle tool ten times holding the actuator lever assy (704343) down for 2-3 seconds between cycles to remove any air from the tool. Press and hold actuator lever assy (704343) leaving piston assy (756211) in <u>REAR</u> position (Dim "B" below).
- 11. Disconnect air supply. Remove air bleeder assy from side hole of handle adapter (756303-1) hole marked "R" and replace with button head cap screw (402482) and stat-o-seal (S572). Torque 35 inch lbs. Do not over tighten.
- 12. Remove button head cap screw (402482) and stat-o-seal (S572) from head cylinder (756300) side hole (marked #2) and attach air bleeder assy in an upright position.
- 13. Connect air supply. Cycle tool ten times removing any air bubbles. Leave piston assy (756211) in REAR position (Dim "B" below).
- 14. <u>NOTE</u>: The throttle valve (756140) <u>must</u> be manually held down with a flat head screw driver then disconnect air supply. Remove air bleeder assy from side hole (marked #2) on head cylinder (756300) and replace button head cap screw (402482) and statoseal (S572). Torque to 35 inch lbs. Do not over tighten.
- 15. Connect air supply. Cycle tool five times and check stroke of .960" (24.4 mm). We recommend using calipers. With the actuator lever assy (704343) released, check dimension (A). While holding actuator lever assy (704343) in, check dimension (B). Subtract dimension (A) from dimension (B). If stroke is not consistent within 1/64" (.396 mm) repeat bleeding steps 2-15 until stroke met.



STROKE CHART

TOOL	STROKE LIMITER	STROKE LIMITER THICKNESS	STROKE	"A"	"B"
GB756	NONE		.96"	.147"	1.107"
	NONE	-	24.38mm	3.73mm	28.12mm
	756152	.280	.68"	.147"	.827"
			17.27mm	3.73mm	21.01mm
	756153	210	.75"	.147"	.897"
	/50153	.210	19.05mm	3.73mm	22.78mm
	756155	.585	.375"	.147"	.522"
	730155	.385	9.53mm	3.73mm	13.26mm

Bleeder hole #1 & #2 on head cylinder (756300) // Button head cap screw (402482) & stat-o-seal (A-1155)

13

Air Bleeder Assy (704153)

/ (sold separately)

TROUBLESHOOTING

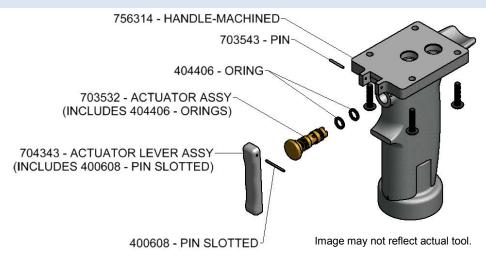


Providing all maintenance conditions have been met, follow this systematic approach to diagnosis.

- 1. MORE THAN ONE PULL IS REQUIRED TO BREAK FASTENER.
 - a) Tool needs to be bled. (See filling and bleeding procedures pgs. 12-13).
 - b) Jaws are stripped or packed with chips. Clean or replace.
 - c) Incorrect nose assembly.
- 2. SLOW OR PARTIAL OPERATION WHEN THE ACTUATOR (756142) IS DEPRESSED.
 - a) Back-up Ring (401119) and O'Rings (403815) on the piston assy (756211) could be worn or damaged. Replace.
 - b) Back-up Rings (401086) and O'Ring (403770) on the piston rod assy (756134) could be worn or damaged. Replace.
- 3. NO OPERATION WHEN ACTUATOR (756142) IS DEPRESSED.
 - a) Tool seized due to mechanical failure or damaged parts.
- 4. OIL LEAKAGE.
 - a) DO NOT OPERATE WITH OIL LEAKING FROM TOOL, HIGH PRESSURE OIL MAY CAUSE SEVERE PERSONAL INJURY.
 - b) Any oil leaking externally should be traced to its source. An o'ring or seal that leaks should be replaced.
- 5. AIR BYPASS FROM THROTTLE VALVE HOUSING.
 - a) If the spring (50607) breaks, air will flow freely through the muffler (756145). Replace.
 - b) Check o'rings on throttle valve (756140). If worn or damaged, replace.
- 6. FASTENER STEM JAMMED IN NOSE ASSEMBLY.
 - a) Nose assembly components require service. DISCONNECT AIR FROM TOOL, remove the nose from the tool and disassemble. Replace worn or broken parts. Clean the surface the jaws ride on.
 - b) Stems lodged side by side in the follower. Disassemble, remove stems, and reassemble.
 - c) Incorrect follower.

OVERHAUL ACTUATOR ASSY

<u>MARNING</u>: Disconnect tool from its power source before actuator removal or installation. Severe personal injury may occur if power source is not disconnected.



REMOVING 703532 ACTUATOR ASSY

- 1. Remove actuator lever assy (704343) including pin slotted (400608) from handle-machined (756314).
- 2. Remove pin (703543) and pull actuator assy (703532) from handle-machined (756314). If unable to remove by hand, pull out using pliers, being careful not to compromise actuator assy (703532).

INSTALLING 703532 ACTUATOR ASSY

- 1. After replacing o'rings on actuator assy (703532), insert actuator assy (703532) into handle-machined (756314). (Note direction in picture provided) and push with thumb until it stops.
- 2. Press or tap pin (703543) into the handle-machined (756314). Re-attach the actuator lever assy (704343) including pin slotted (400608) to the handle-machined (756314).

OVERHAUL



<u>WARNING</u>: Only qualified and trained personnel should perform overhaul.

MARNING: Personnel must read and understand all warnings and cautions.

MARNING: Tool must be maintained in a safe working condition at all times and examined on a daily basis for damage or

wear. Any repair should be done by qualified personnel trained on Gage Bilt procedures.

MARNING: Disconnect tool from its power source before performing overhaul. Severe personal injury may occur if power

source is not disconnected.

MARNING: Excessive contact with hydraulic oil and lubricants should be avoided (See SDS documents for all applicable

materials).

MARNING: When operating, repairing or overhauling tool, wear approved eye protection. Do not look in front of tool or

rear of tool when installing fastener.

MARNING: Use only Gage Bilt hydraulic hoses and couplings, or equivalent, rated for 10,000 psi. (689.5 bar) working pressure.

WARNING: Ensure air hose is securely connected to avoid possible hose whipping (Air Actuated Tools only).

MARNING: Depress actuator assy (703532) and disconnect from air, with the piston in the rear position, before overhaul. ■

Severe personal injury may occur if air hose is not disconnected. **USE CAUTION** when forcing piston rod assy

downward with head cylinder removed. Hydraulic oil will eject forcibly from handle assy.

Note:

• Dispose of hydraulic oil in accordance with manufacture safety datasheet.

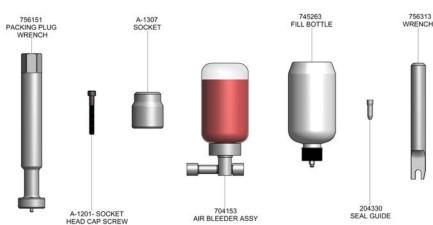
All tool materials are recyclable except rubber o'rings, seals and wipers.

Perform overhaul in a clean, well lit area using care not to scratch or nick any smooth surface that comes in contact with an o'ring. Use of Lubriplate® (Gage Bilt part no. 402723) or other lubricant is recommended during reassembly to prevent tearing or distorting of o'rings.

The disassembly and re-assembly procedure can be accomplished by utilizing the following instructions and parts lists on pgs. 14-18. Use extreme care during disassembly and re-assembly not to mar or nick any smooth surface that comes in contact with seals. Before installing seals, always apply a good lubricant, such as Lubriplate®, to the surfaces. It is recommended that service tool kit (GB756SHTK) be used to facilitate overhaul. A complete overhaul can be achieved by the use of Service Kit (756311) which contains a complete set of o'rings, back-up rings, screws, washers and gasket.

Clean parts in mineral spirits or other o'ring compatible solvent being sure to clean o'ring grooves. Inspect components for scoring, excessive wear or damage.





GB756SHTK Service Tool Kit Includes:

Part No.	Description
A-139	Tee Wrench
756151	Packing Plug Wrench
A-1201	Socket Head Cap Screw
A-1307	DR 6PT Socket
704153	Air Bleeder Assy
745263	Fill Bottle
204330	Seal Guide
756313	Wrench

TOOL DISPOSAL

- 1. When tool life is met, drain hydraulic oil from tool and dispose of the hydraulic oil in accordance with all environmental regulations applicable to your area.
- 2. Disassemble tool and remove all rubber o'rings, seals, wipers and hydraulic hoses. All tool materials are recyclable except rubber o'rings, seals, wipers and hydraulic hoses. Dispose of rubber materials in accordance with all environmental regulations applicable in your area.



MARNING: Disconnect tool from its air source before disassembly.

HEAD

- 1. Remove nose assembly and adapter from tool before attempting disassembly of head cylinder (756300).
- 2. Remove deflector (756120) and end cap (756116).
- 3. Push against threaded end of piston assembly (756211) to slide it out of head cylinder (756300). Be careful not to damage threads or cause burrs on polished piston rod assy surface.

The re-assembly sequence is the opposite of disassembly. (See Filling and Bleeding procedures pgs. 12-13). Apply Loctite® #242 and torque the four button-head cap screws (402479) uniformly to 35-40 inch lbs. to prevent leakage around the gasket (756148).

HANDLE

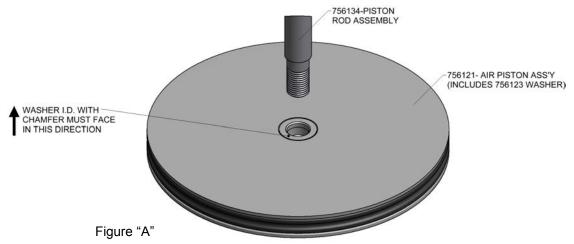
To inspect air cylinder bore, remove base plate (756144), spring (50607), muffler (756145), o'ring (400777), gasket (756149), retaining ring (A-1086) and base cover (756124). Any further disassembly will require removal of the head cylinder (756300) first.

For complete disassembly.

- 1. Removing base plate (756144), muffler (756145), o'ring (400777), gasket (756149), retaining ring (A-1086) and base cover (756124).
- Holding tool upright, remove four button-head cap screws (402479). Lift head cylinder (756300), gasket (756148) and gland-return (756126) from handle assy (756229).
- 3. Use socket head cap screw (A-1201) to remove gland-return (756126).
- 4. Empty all hydraulic oil into an approved container and dispose of in accordance with all environmental regulations applicable to your area.
- Place tee wrench (A-139) down into top of power cylinder into hex on piston rod assy (756134). While holding tee wrench (A-139), put a 9/16 socket wrench on flexlock nut (A-1089) and loosen piston rod cap "not shown" from piston rod.
- 6. Using vice grips, grab flexlock nut (A-1089) and remove air piston assy (756121) from bottom of handle assy (756229).
- 7. After removal of air piston assy (756121), use packing plug wrench (756151) and remove packing plug (756218).
- 8. Stand tool upright and carefully push on top of power cylinder (756227) to eject from bottom of handle assy (756229), not letting it drop and nick large cylinder bore handle. Remove piston rod cap from inside of power cylinder (756227).

To reassemble the handle assy (756229).

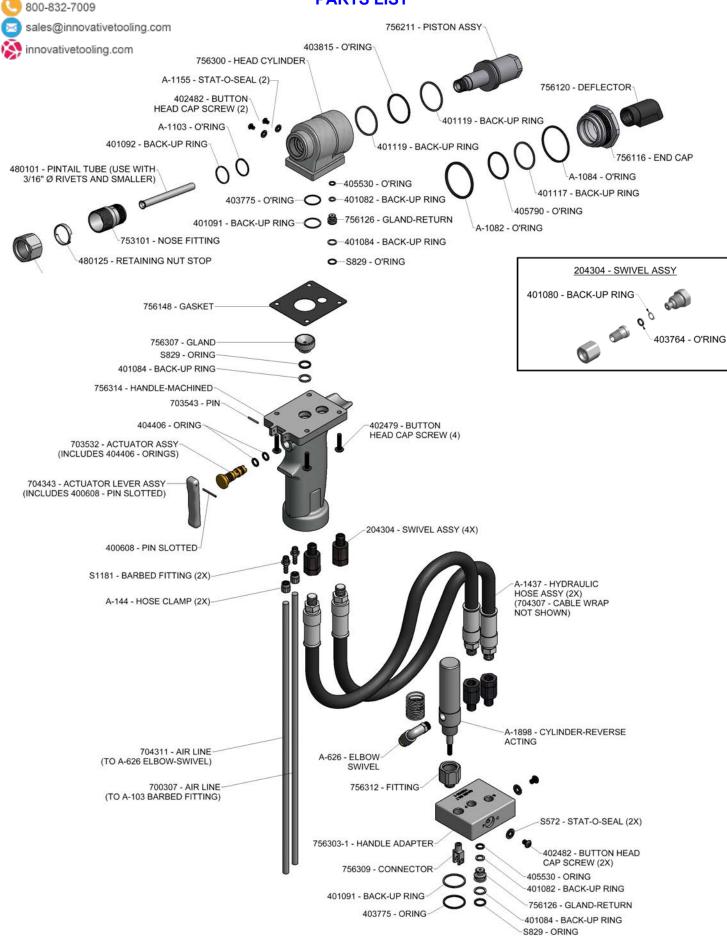
- 1. Reverse the above procedure, being certain that all o'rings are properly lubricated. After installing the power cylinder (756227), install the packing plug (756218) and torque to 45 foot lbs.
- 2. Push piston rod assy (756134) thru the packing plug (756218) with the air piston assy (756121) attached. Be sure when attaching air piston assy (756121) to piston rod assy (756134) that the washer i.d. with the chamfer on one side is face up. (See fig. "A").
- 3 Install piston rod cap back into the power cylinder (756227) and tighten securely to the piston rod using tee wrench and 9/16 socket wrench.
- Re-install the spring (50607), muffler (756145), o'ring (400777), gasket (756149) and base cover (756124), retaining ring (A-1086) and base plate (756144).
- 5. With piston rod assy (756134) in the down position, fill oil passages on top of handle assy (756229) with automatic transmission oil. Dexron® III, or equivalent. See Filling and Bleeding procedures pgs. 12-13 for more information.
- 6. Replace gasket (756148) and o'ring (S829), just prior to replacing head cylinder (756300). Torque all screws to manual specifications. (See Filling & Bleeding procedures pgs. 12-13) & (See torque specs. pg. 11).





GB756SH PARTS LIST

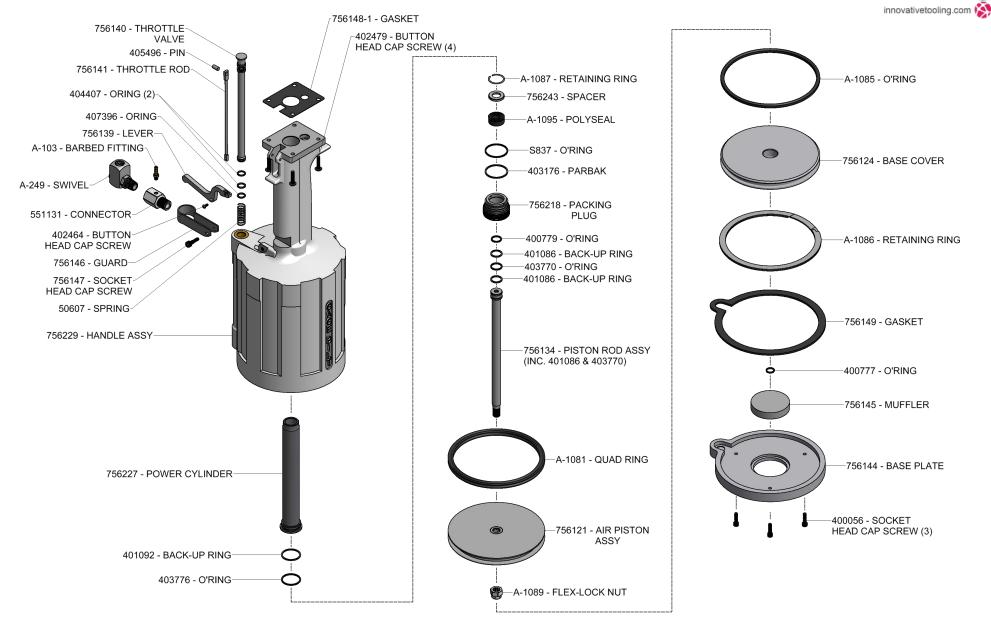






GB756SH PARTS LIST





DEXRON® III OIL SAFETY DATA



FIRST AID MEASURES

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water. **Skin:** No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse. **Ingestion:** No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice. **Inhalation:** No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.

Note to Physicians: In an accident involving high-pressure equipment, this product may be injected under the skin. Such an accident may result in a small, sometimes bloodless, puncture wound. However, because of its driving force, material injected into a fingertip can be deposited into the palm of the hand. Within 24 hours, there is usually a great deal of swelling, discoloration, and intense throbbing pain. Immediate treatment at a surgical emergency center is recommended.

FIRE

Leaks/ruptures in high pressure system using materials of this type can create a fire hazard when in the vicinity of ignition sources (eq. open flame, pilot lights, sparks, or electric arcs).

FLAMMABLE PROPERTIES:

Flashpoint: (Cleveland Open Cup) 178 °C (352 °F) Minimum

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.

Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

ECOLOGICAL INFORMATION

Waste disposal: In accordance with all environmental regulations applicable to your area.

Spillage: Prevent entry into drains, sewers and water course. Soak up with diatomaceous earth or other inert material. Store in appropriate container for disposal.

Ecotoxocity: This material is expected to be harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment. The ecotoxicity hazard is based on an evaluation of data for the components or a similar material.

HANDLING

Precautionary Measures: DO NOT USE IN HIGH PRESSURE SYSTEMS in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed. Keep out of the reach of children.

General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations.

ACCESSORIES

NOSE ASSEMBLY SELECTION CHART

STRAIGHT

(Sold Separately)

RIGHT ANGLE

(Sold Separately)





OFFSET

FASTENER	DIA.	STRAIGHT		**RIGHT ANGLE	*OFFSET	
ASP®	13/64	ASP06-745C-23	ASP06-745C-48	***ASP06-751B-54RA	A SP06-204D-27OS	ASP06-204D-37OS
2 ASP & ASP PF ASP FF & ASP F	17/64	ASP08-745B-23	ASP08-745B-48	7.51 00 7515 34104	ASP08-204D-27OS	ASP08-204D-3705
ASP-LC and MAF	21/64					
BOM®	1/4	ASP10-755-23 BOM08-755A-23	ASP10-755-48		ASP10-204D-27OS	ASP10-204D-37OS
AVBOLT®	5/16	BOM10-756-26				
	3/16	NAS06-2581-12	NAS06-2581-48		NAS06-204C-25OS	NAS06-204D-30O
COMMERCIAL LOCKBOLTS		NAS06-2581-23			NAS06-204C-34OS	
C6L®	1/4	NAS08-2581-12	NAS08-2581-48		NAS08-204C-25OS	NAS08-204D-30O
AVDELOK®		NAS08-2581-23			NAS08-205A-31	NAS08-204C-34O
	5/16	LB10-745C-26	NAS10-2581-48		NAS10-205D-31	
	3/8	LB12-756-26	NAS12-756-48		NAS12-205A-31	
CONTAINER BOLT	3/8	HT12-756-23				
FLOOR BOLT	5/16	FT10-353A-28				
LGP® LOCKBOLT	5/32	LGP05-2581-12	LGP05-2581-23		LGP05-204C-25OS	LGP05-204C-30O
EGF® LOCKBOLT	0/40	LGP05-2581-48			LGP05-204C-34OS	
LGPL2SC-V BACB30VM	3/16	LGP06-2581-12	LGP06-2581-23		LGP06-204C-25OS	LGP06-204D-30O
LGPL18SC-V BACB30XT	7/00	LGP06-2581-48			LGP06-204C-34OS	
LGPL4SC-V ABS0548	7/32	LGP07-2581-12	LGP07-755-23		LGP07-204C-25OS	LGP07-204C-30O
LGPL2SP-V BACB30VN		LGP07-755-48			LGP07-204C-34OS	
LGPL4SP-V ASNA2392	1/4	LGP08-2581-12	LGP08-2581-23		LGP08-204C-25OS	LGP08-204D-300
LGPL8SC-V BACB30WD	F/40	LGP08-2581-48	1.0040.0504.00		LGP08-204C-34OS	LGP08-205A-31
LGPL9SC-V BACB30WB	5/16	LGP10-2581-12 LGP10-2581-48	LGP10-2581-23		LGP10-205D-31	
LGPL9SP-V BACB30VY	3/8	LGP10-2581-48 LGP12-745B-12	LGP12-756-26		LGP12-205A-31	
BACB31N BACB31P	3/8	LGP12-745B-12 LGP12-756-48	LGF12-/50-20		LGF12-205A-31	
	4mm	MLGP4-2581-12			MLGP4-204C-25OS	MLGP4-204C-30O
		MLGP4-2581-23	MLGP4-2581-48		MLGP4-204C-34OS	
	5mm	MLGP5-2581-12			MLGP5-204C-25OS	MLGP5-204D-30O
MLGP®		MLGP5-2581-23	MLGP5-2581-48		MLGP5-204C-34OS	
(MILLIMETER)	6mm	MLGP6-2581-12			MLGP6-204C-25OS	MLGP6-204D-30O
LOCKBOLT		MLGP6-2581-23	MLGP6-2581-48		MLGP6-204C-34OS	
	8mm	MLGP8-2581-12			MLGP8-204C-25OS	MLGP8-204C-30O
		MLGP8-2581-23	MLGP8-2581-48		MLGP8-204C-34OS	MLGP8-205A-31
	10mm	MLGP10-2581-23	MLGP10-2581-48			
	5/32	NASS05-2581-12	NAST05-2581-12		NASS05-204C-25O	NAST05-204C-200
NAS and GP® SHEAR/TENSION		NASS05-2581-23	NAST05-2581-23		NASS05-204C-30O	NAST05-204C-300
LOCKBOLTS	0/40	NASS05-2581-48	NAST05-2581-48		NASS05-204C-34O	NA ST05-204C-340
DA CDOOTO / DA CDOOLIA	3/16	NA S06-2581-12	NAS06-2581-23		NA S06-204C-25OS NA S06-204C-34OS	NAS06-204D-30O
BACB30TY BACB30UA BACB30TZ BACB30UB	4/4	NA S06-2581-48	NA COO 0504 00			NA COO 004D 000
BACB30DY BACB30GX	1/4	NA S08-2581-12	NAS08-2581-23		NA S08-204C-25OS NA S08-204C-34OS	NA S08-204D-30O
BACB30DX BACB30GP	5/16	NAS08-2581-48 NAS10-2581-12	NAS10-2581-23		NAS10-205D-31	NAS08-205B-31
BACB30GO BACB30GY	3/10	NAS10-2581-48	NAS10-2301-23		14A310-203D-31	
BACB30GW	3/8	NAS12-745B-12	NAS12-756-26		NAS12-205A-31	
	3/6	NAS12-7456-48	IVAS12-730-20		14A312-203A-31	
	4mm	MGP4-2581-23	MGP4-2581-48		MGP4-204C-25OS	MGP4-204C-30OS
	411111	IVIGP4-2561-25	IVIGP4-2361-46		MGP4-204C-34OS	MGP4-204C-30C3
	C	MODE OF A OO	MODE OF A			MODE 004D 0000
MGP®	5mm	MGP5-2581-23	MGP5-2581-48		MGP5-204C-25OS	MGP5-204D-30OS
(MILLIMETER) LOCKBOLT	60	MCDe offor on	MCDs offer 40		MGP5-204C-34OS	MCDs 204D 200
200.0001	6mm	MGP6-2581-23	MGP6-2581-48		MGP6-204C-25OS	MGP6-204D-30O
	0	MCD0 0504 00	MCDs offs4 40		MGP6-204C-34OS	
	8mm	MGP8-2581-23	MGP8-2581-48			
	10mm	MGP10-2581-23	MGP10-2581-48 MG06-745-48			
		MG06-745-24				
MI II TI CDID I OCKROLT	3/16	MC09 745 24				
MULTI-GRIP LOCKBOLT	1/4	MG08-745-24 MG10-756-28	MG08-745-48			
MULTI-GRIP LOCKBOLT MAGNA-GRIP® and MAXLOK®	1/4 5/16	MG10-756-28				
	1/4 5/16 3/8	MG10-756-28 MG12-756-28				
	1/4 5/16 3/8 1/4	MG10-756-28 MG12-756-28 **MGL08-752A-21				
MAGNA-GRIP® and MAXLOK®	1/4 5/16 3/8 1/4 5/16	MG10-756-28 MG12-756-28 **MGL08-752A-21 MGL10-353-28				
MAGNA-GRIP® and MAXLOK® MULTI-GRIP STRUCTURAL BLIND RIVET	1/4 5/16 3/8 1/4 5/16 3/8	MG10-756-28 MG12-756-28 **MGL08-752A-21 MGL10-353-28 MGL12-353C-28				
MAGNA-GRIP® and MAXLOK® MULTI-GRIP STRUCTURAL BLIND RIVET OVERSIZE	1/4 5/16 3/8 1/4 5/16 3/8 1/4	MG10-756-28 MG12-756-28 **MGL08-752A-21 MGL10-353-28 MGL12-353C-28 OS08-353A-48	MG08-745-48			
MAGNA-GRIP® and MAXLOK® MULTI-GRIP STRUCTURAL BLIND RIVET OVERSIZE STRUCTURAL	1/4 5/16 3/8 1/4 5/16 3/8 1/4 5/16	MG10-756-28 MG12-756-28 **MGL08-752A-21 MGL10-353-28 MGL12-353C-28 OS08-353A-48 OS10-756-26	MG08-745-48 OS10-756-48			
MAGNA-GRIP® and MAXLOK® MULTI-GRIP STRUCTURAL BLIND RIVET OVERSIZE	1/4 5/16 3/8 1/4 5/16 3/8 1/4 5/16 3/8	MG10-756-28 MG12-756-28 **MGL08-752A-21 MGL10-353-28 MGL12-353C-28 OS08-353A-48 OS10-756-26 OS12-756A-26	MG08-745-48 OS10-756-48 OS12-756A-48	***SB05-754C-54PA	SB05-204D-27OS	SB05-204D-3700
MAGNA-GRIP® and MAXLOK® MULTI-GRIP STRUCTURAL BLIND RIVET OVERSIZE STRUCTURAL	1/4 5/16 3/8 1/4 5/16 3/8 1/4 5/16 3/8 5/32	MG10-756-28 MG12-756-28 **MGL08-752A-21 MGL10-353-28 MGL12-353C-28 OS08-353A-48 OS10-756-26 OS12-756A-26 SB05-745C-23	MG08-745-48 OS10-756-48 OS12-756A-48 SB05-745C-48	***SB05-751C-54RA ***SB06-751R-54RA	SB05-204D-27OS SB06-204D-27OS	
MAGNA-GRIP® and MAXLOK® MULTI-GRIP STRUCTURAL BLIND RIVET OVERSIZE STRUCTURAL RIVET BLIND BOLT (SINGLE ACTION)	1/4 5/16 3/8 1/4 5/16 3/8 1/4 5/16 3/8 5/32 3/16	MG10-756-28 MG12-756-28 "MGL08-752A-21 MGL10-353-28 MGL12-353C-28 OS08-353A-48 OS10-756-26 OS12-756A-26 SB05-745C-23 SB06-745B-23	OS10-756-48 OS12-756-48 OS12-756A-48 SB06-745C-48 SB06-745E-48	***SB06-751B-54RA	SB06-204D-27OS	SB06-204D-37OS
MAGNA-GRIP® and MAXLOK® MULTI-GRIP STRUCTURAL BLIND RIVET OVERSIZE STRUCTURAL RIVET BLIND BOLT (SINGLE ACTION) WITH OR W/OUT DRIVE WASHER M 5903548 & U /M 5903548 & U	1/4 5/16 3/8 1/4 5/16 3/8 1/4 5/16 3/8 5/32	MG10-756-28 MG12-756-28 **MGL08-752A-21 MGL10-353-28 MGL12-353C-28 OS08-353A-48 OS10-756-26 OS12-756A-26 SB05-745C-23	MG08-745-48 OS10-756-48 OS12-756A-48 SB05-745C-48		SB06-204D-27OS SB08-204D-27OS	SB06-204D-37OS
MAGNA-GRIP® and MAXLOK® MULTI-GRIP STRUCTURAL BLIND RIVET OVERSIZE STRUCTURAL RIVET BLIND BOLT (SINGLE ACTION) WITH OR W/OUT DRIVE WASHER M 5903538 & U /M 52345 & U M 521405 & U /M 521415 & U	1/4 5/16 3/8 1/4 5/16 3/8 1/4 5/16 3/8 5/32 3/16 1/4	MG10-756-28 MG12-756-28 **MGL08-752A-21 MGL10-353-28 MGL12-353C-28 OS08-353A-48 OS10-756-26 OS12-756A-26 SB05-745C-23 SB06-745B-23 SB08-755-23	MG08-745-48 OS10-756-48 OS12-756A-48 SB06-745C-48 SB06-745B-48 SB08-755-48	***SB06-751B-54RA	SB06-204D-27OS SB08-204D-27OS SB08-205A-35	SB06-204D-37O
MAGNA-GRIP® and MAXLOK® MULTI-GRIP STRUCTURAL BLIND RIVET OVERSIZE STRUCTURAL RIVET BLIND BOLT (SINGLE ACTION) WITH OR WOUT DRIVE WASHER M 5903548 & U /M 5903548 & U	1/4 5/16 3/8 1/4 5/16 3/8 1/4 5/16 3/8 5/32 3/16 1/4 5/16	MG10-756-28 MG12-756-28 MG12-756-28 MGL10-353-28 MGL12-353C-28 OS08-353A-48 OS10-756-26 OS12-756A-26 SB05-745C-23 SB06-745B-23 SB08-755-23	OS10-756-48 OS12-756A-48 OS12-756A-48 SB05-745C-48 SB08-745C-48 SB08-755-48 SB10-756-48	***SB06-751B-54RA	SB06-204D-27OS SB08-204D-27OS SB08-205A-35 SB10-205A-35	SB06-204D-37O
MAGNA-GRIP® and MAXLOK® MULTI-GRIP STRUCTURAL BLIND RIVET OVERSIZE STRUCTURAL RIVET BLIND BOLT (SINGLE ACTION) WITH OR W/OUT DRIVE WASHER M S90354\$ & U /M S90354\$ & U M S21405 & U /M S21415 & U M AXI-BOLT®, BACB30YY, YU, & YT	1/4 5/16 3/8 1/4 5/16 3/8 1/4 5/16 3/8 5/32 3/16 1/4 5/16 3/8	MG10-756-28 MG12-756-28 **MGL08-752A-21 MGL10-353-28 MGL12-353C-28 OS08-353A-48 OS10-756-26 OS12-756A-26 SB05-745C-23 SB06-745C-23 SB08-755-23 SB10-756-28 SB10-756-28 SB10-756-28	OS10-756-48 OS12-756A-48 SB05-745C-48 SB06-745B-48 SB08-755-48 SB10-756-48 SB12-756-48	***SB06-751B-54RA ****SB08-713A-58RA	SB06-204D-27OS SB08-204D-27OS SB08-205A-35 SB10-205A-35 SB12-205A-35	SB05-204D-37O5 SB06-204D-37O5 SB08-204D-37O5
MAGNA-GRIP® and MAXLOK® MULTI-GRIP STRUCTURAL BLIND RIVET OVERSIZE STRUCTURAL RIVET BLIND BOLT (SINGLE ACTION) WITH OR WOUT DRIVE WASHER M \$903535 & U // M \$27140 \$ & U MAXHBOLT®, BACB30YY, YU, & YT BLIND BOLT (SINGLE ACTION)	1/4 5/16 3/8 1/4 5/16 3/8 1/4 5/16 3/8 5/32 3/16 1/4 5/16 3/8 5/32 5/32	MG10-756-28 MG12-756-28 **MGL08-752A-21 MGL10-353-28 MGL12-353C-28 OS08-353A-48 OS10-756-26 OS12-756A-26 SB05-745C-23 SB08-745C-23 SB10-756-28 SB10-756-28 SB10-756-28 UBB05-745C-23	OS10-756-48 OS12-756A-48 OS12-756A-48 SB05-745C-48 SB06-745B-48 SB10-756-48 SB12-756-48 UBB05-745C-48	***SB06-751B-54RA ****SB08-713A-58RA ****UBB05-751C-54RA	SB06-204D-27OS SB08-204D-27OS SB08-205A-35 SB10-205A-35 SB12-205A-35 UBB05-204D-27OS	SB06-204D-37OS SB08-204D-37OS UBB05-204D-37O
MAGNA-GRIP® and MAXLOK® MULTI-GRIP STRUCTURAL BLIND RIVET OVERSIZE STRUCTURAL RIVET BLIND BOLT (SINGLE ACTION) WITH OR WOUT DRIVE WASHER M 5903545 & U /M 527415 & U M 527405 & U /M 527415 & U M 5XHOD SAU /M 527415 & U M 5XHOD SAU /M 5XHOD SAU /M SY HOS SAU /M SY HO	1/4 5/16 3/8 1/4 5/16 3/8 1/4 5/16 3/8 5/32 3/16 1/4 5/16 3/8 5/32 3/16	MG10-756-28 MG12-756-28 "MGL08-752A-21 MGL10-353-28 MGL12-353C-28 OS08-353A-48 OS10-756-26 OS12-756A-26 SB05-745C-23 SB06-745B-23 SB10-756-28 SB12-756-28 UBB05-745C-23 UBB05-745C-23	OS10-756-48 OS12-756A-48 SB05-745C-48 SB06-745E-48 SB08-755-48 SB10-756-48 SB12-756-48 UBB06-745E-48 UBB06-745E-48	***SB06-751B-54RA ****SB08-713A-58RA ****UBB05-751C-54RA ****UBB06-751B-54RA	\$B06-204D-27OS \$B08-204D-27OS \$B08-205A-35 \$B10-205A-35 \$B12-205A-35 UBB05-204D-27OS UBB06-204D-27OS	SB06-204D-37O5 SB08-204D-37O5 UBB05-204D-37O UBB06-204D-37O
MAGNA-GRIP® and MAXLOK® MULTI-GRIP STRUCTURAL BLIND RIVET OVERSIZE STRUCTURAL RIVET BLIND BOLT (SINGLE ACTION) WITH OR W/OUT DRIVE WASHER M 5903538 & U/M 527415 & U M AXI-BOLT®, BACB30YY, YU, & YT BLIND BOLT (SINGLE ACTION)	1/4 5/16 3/8 1/4 5/16 3/8 1/4 5/16 3/8 5/32 3/16 1/4 5/16 3/8 5/32 5/32	MG10-756-28 MG12-756-28 **MGL08-752A-21 MGL10-353-28 MGL12-353C-28 OS08-353A-48 OS10-756-26 OS12-756A-26 SB05-745C-23 SB08-745C-23 SB10-756-28 SB10-756-28 SB10-756-28 UBB05-745C-23	OS10-756-48 OS12-756A-48 OS12-756A-48 SB05-745C-48 SB06-745B-48 SB10-756-48 SB12-756-48 UBB05-745C-48	***SB06-751B-54RA ****SB08-713A-58RA ****UBB05-751C-54RA	\$B06-204D-27OS \$B08-204D-27OS \$B08-205A-35 \$B10-205A-35 \$B12-205A-35 UBB05-204D-27OS UBB06-204D-27OS UBB08-204D-27OS	SB06-204D-37O
MAGNA-GRIP® and MAXLOK® MULTI-GRIP STRUCTURAL BLIND RIVET OVERSIZE STRUCTURAL RIVET BLIND BOLT (SINGLE ACTION) WITH OR W/OUT DRIVE WASHER M S903538 & U / M S903548 & U M AXHBOLT®, BACBBOYY, YU, & YT BLIND BOLT (SINGLE ACTION) WITH DRIVE WASHER MS90353S & U / MS90354S & U	1/4 5/16 3/8 1/4 5/16 3/8 1/4 5/16 3/8 5/32 3/16 1/4 5/16 3/8 5/32 3/16	MG10-756-28 MG12-756-28 "MGL08-752A-21 MGL10-353-28 MGL12-353C-28 OS08-353A-48 OS10-756-26 OS12-756A-26 SB05-745C-23 SB06-745B-23 SB10-756-28 SB12-756-28 UBB05-745C-23 UBB05-745C-23	OS10-756-48 OS12-756A-48 SB05-745C-48 SB06-745E-48 SB08-755-48 SB10-756-48 SB12-756-48 UBB06-745E-48 UBB06-745E-48	***SB06-751B-54RA ****SB08-713A-58RA ****UBB05-751C-54RA ****UBB06-751B-54RA	\$B06-204D-27OS \$B08-204D-27OS \$B08-205A-35 \$B10-205A-35 \$B12-205A-35 UBB05-204D-27OS UBB06-204D-27OS	SB06-204D-37O5 SB08-204D-37O5 UBB05-204D-37O UBB06-204D-37O

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GAGE BILT CERTIFIES THE GB756 WILL INSTALL THE ABOVE FASTENERS

See www.gagebilt.com/nose_assemblies.php for nose assembly information (data sheets)

*ALL OFFSET 204 SERIES NOSES REQUIRE 353204 ADAPTER WITH 756152 STROKE LIMITER..

*ALL OFFSET 205 SERIES NOSES REQUIRE 353205 ADAPTER WITH 756153 STROKE LIMITER. **NOSE REQUIRES 745751 ADAPTER

***-54RA RIGHT ANGLE SERIES NOSES REQUIRE 745751 ADAPTER WITH 756155 STROKE LIMITER.

****-58RA RIGHT ANGLE SERIES NOSES REQUIRE 745751 ADAPTER WITH 756152 STROKE LIMITER.

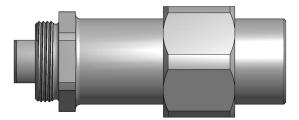
NOTE: THE LAST 2 DIGITS OF THE NOSE ASSEMBLY REPRESENTS THE LENGTH THE NOSE EXTENDS FROM THE TOOL $\,$ I.E. -20 = 2.0 INCHES

Rev. 11/18



Adapter Assy #353204

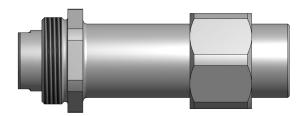
Adapts 204 series nose assemblies to GB756SH installation tool w/ 756152 stroke limiter.



Other adapters available. Contact Gage Bilt for more information.

Adapter Assy #353205

Adapts 205 series nose assemblies to GB756SH installation tool w/ 756153 stroke limiter.



Other adapters available. Contact Gage Bilt for more information.

Adapter Assy #745751

Adapts -54 & -58 RA series nose assemblies to GB756SH installation tool w/ 756155 stroke limiter.



Other adapters available. Contact Gage Bilt for more information.

Stroke Limiter #756152

Required with all offset 204 & -58 RA series nose assy's when used on GB756SH tool. See Chart pg. 20. (Sold Separately)



Stroke Limiter #756153

Required with all offset 205 series nose assy's when used on GB756SH tool. See Chart pg. 20. (Sold Separately)



Stroke Limiter #756155

Required with all –54 RA series nose assy's when used on GB756SH tool. See Chart pg. 20. (Sold Separately)







Catcher Bag-Stem #756610

(Sold Separately)



Air Bleeder Assy #704153 (Sold Separately)

Fill Bottle #745263 (Sold Separately)



Grip Gage #GB105093For NAS LOCKBOLTS and blind fasteners (Sold Separately)





Gage Bilt also supplies pin & collar swage inspection gages to certify swage installation.

(Sold Separately)





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RIVETER KITS AVAILABLE

(Sold Separately)



Gage Bilt offers a wide selection of standard and custom kits tailored to your needs.

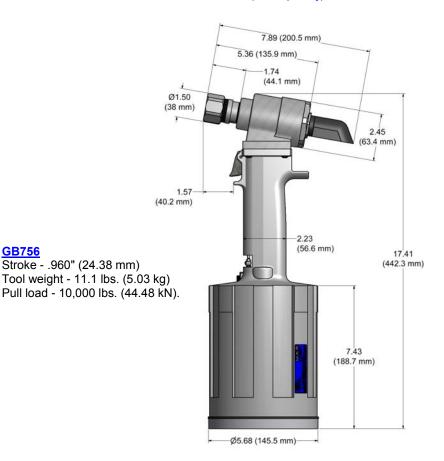
Contact us for more information.





Alternative Styles

(Sold Separately)



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