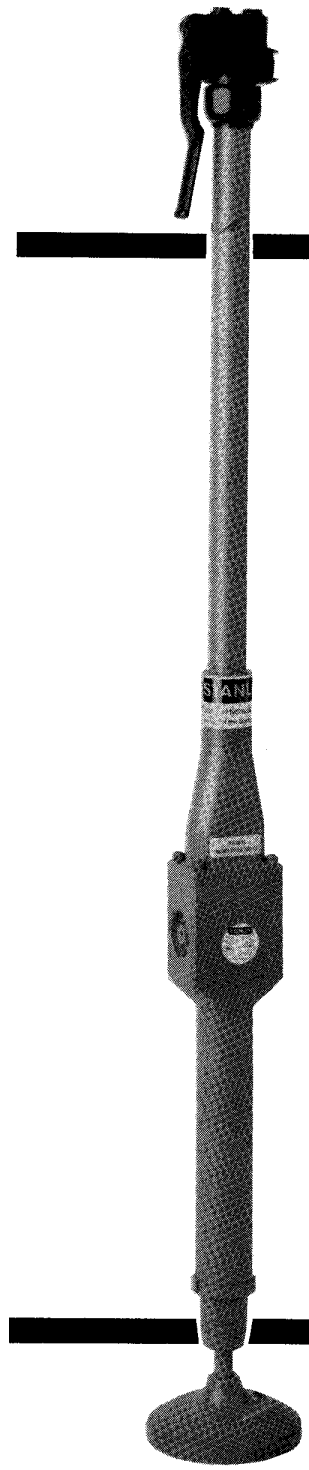
TA55
HYDRAULIC TAMPER



Safety, Operation and Maintenance Manual

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05434 11/92R

SAFETY PRECAUTIONS

Tool operators and maintenance personnel must always comply with the safety precautions given in this manual and on the stickers and tags attached to the tool and hose.

These safety precautions are given for your safety. Review them carefully before operating the tool and before performing maintenance or repairs.

Supervising personnel should develop additional precautions relating to the specific work area and local safety regulations. If so, place the added precautions in the space provided on page 3.

GENERAL SAFETY PRECAUTIONS

The TA55 Hydraulic Tamper provides safe and dependable service if operated in accordance with the instructions given in this manual. Read and understand this manual and any stickers and tags attached to the tool and hose before operation. Failure to do so can result in personal injury or equipment damage.

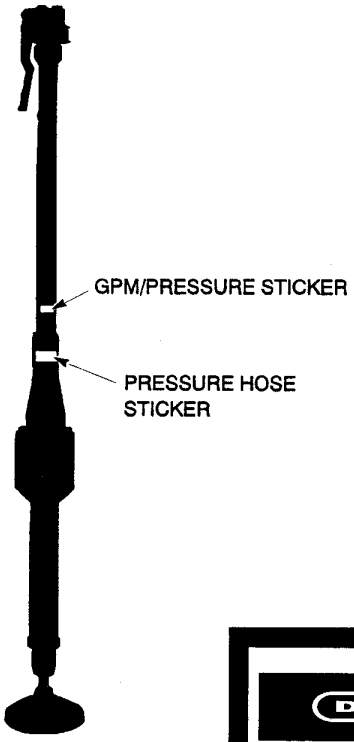
- Operators must start in a work area without bystanders. Flying debris can cause serious injury.
- The operator must be familiar with all prohibited work areas such as excessive slopes and dangerous terrain conditions.
- Always wear safety equipment such as goggles, ear and head protection, leg protection, gloves, snug fitting clothing, and safety shoes at all times when operating the tool.
- Do not overreach. Maintain proper footing and balance at all times.
- Do not inspect or clean the tool while the hydraulic power source is connected. Accidental engagement of the tool can cause serious injury.
- Always connect hoses to the tool hose couplers before energizing the hydraulic power source. Make sure all hose connections are tight.
- Establish a training program for all operators to ensure safe operation.
- Do not operate the tool unless thoroughly trained or under the supervision of an instructor.
- Do not operate the tool at fluid temperatures above 140° F/60° C. Operation at higher temperatures can cause higher than normal temperatures at the tool which can result in operator discomfort.
- Never wear loose clothing that can get entangled in the working parts of the tool.
- To avoid personal injury or equipment damage, all tool repair, maintenance and service must only be performed by authorized and properly trained personnel.
- Know the location of buried or covered services before starting your work.
- Without the use of non-conductive accessories, this tool is not for use near energized lines. Failure to comply with this warning could result in serious personal injury.
- Use care when handling the tamper. Do not carry the tool by the hoses.

TOOL STICKERS AND TAGS

The saftety related stickers and tags attached to the tamper prior to shipment from the factory are shown on this page.

The pressure and flow rate specified must never be exceeded. All stickers and tags must be read and understood prior to operating the tool.

The information listed on stickers and tags must be legible at all times. Always replace stickers that have become worn or damaged. Replacements are available from your local Stanley distributor.



CAUTION

3-9 GPM/11-34 LPM
DO NOT EXCEED 2000 PSI/ 140 BAR

■ DO NOT EXCEED SPECIFIED FLOW OR PRESSURE . ■ USE CLOSED-CENTER TOOL ON CLOSED-CENTER SYSTEM. ■ USE OPEN-CENTER TOOL ON OPEN-CENTER SYSTEM. ■ CORRECTLY CONNECT HOSE TO TOOL "IN "AND "OUT" PORTS. IMPROPER HANDLING, USE OR MAINTENANCE OF TOOL COULD RESULT IN A LEAK, BURST OR OTHER TOOL FAILURE. ■ CONTACT AT A LEAK OR BURST CAN CAUSE OIL INJECTIONS INTO THE BODY. ■ FAILURE TO OBSERVE THESE PRECAUTIONS CAN RESULT IN SERIOUS PERSONAL INJURY.

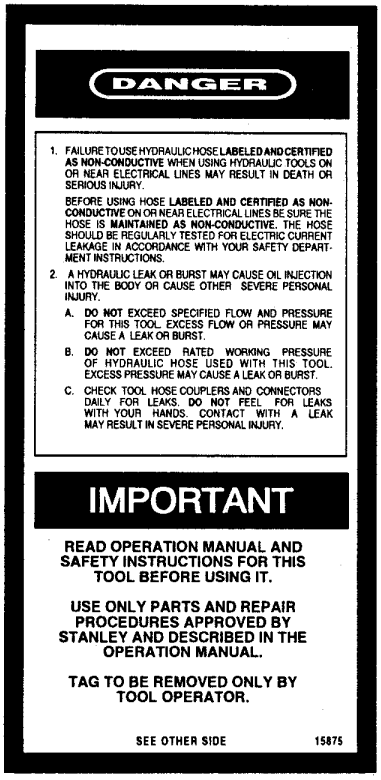
GPM/PRESSURE DANGER STICKER

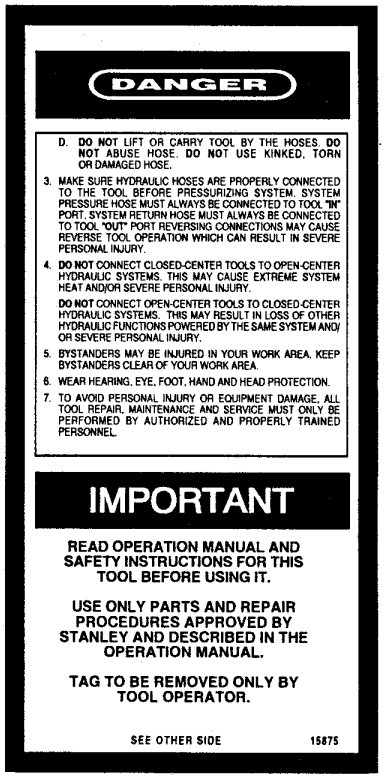
RED HOSE IS PRESSURE SIDE

PRESSURE HOSE STICKER

SAFETY TAG

The safety tag at right is attached to the tamperl when shipped from the factory. Read and understand the safety instructions listed on this tag before removal. We suggest you retain this tag and attach it to the tamper when not in use.





SAFETY SYMBOLS

Safety symbols are used to emphasize all operator, maintenance and repair actions which, if not strictly followed, could result in a life-threatening situation, bodily injury or damage to equipment.

DANGER

This safety symbol may appear on the tool. It is used to alert the operator of an action that could place him/her or others in a life threatening situation.

⚠ WARNING

This safety symbol appears in these instructions to identify an action that could cause bodily injury to the operator or other personnel.

IMPORTANT

This safety symbol appears in these instructions to identify an action or condition that could result in damage to the tool or other equipment.

Always observe safety symbols. They are included for your safety and for the protection of the tool.

LOCAL SAFETY REGULATIONS

Enter any local safety regulations here. Keep these instructions in an area accessible to the operator and maintenance personnel.

EQUIPMENT PROTECTION AND CARE

IMPORTANT

In addition to the Safety Precautions on pages 1 thru 3 of this manual, observe the following for equipment protection and care.

- Always store the tool in a clean, dry space, safe from damage or pilferage.
- Always keep critical tool markings, such as labels and stickers, legible.
- Always replace hoses, couplings, and other parts with replacement parts recommended by Stanley Hydraulic Tools. Supply hoses must have a minimum working pressure rating of 2500 psi/175 bar.
- Always use hoses that have a fluid resistant inner surface and an abrasive resistant outer surface. Whenever near electrical conductors, use **clean** hose labeled and certified non-conductive.
- To avoid personal injury or equipment damage, all tool repair, maintenance and service must only be performed by authorized and properly trained personnel.
- Make sure all couplers are wiped clean before connection.
- The hydraulic circuit control valve must be in the "OFF" position when coupling or uncoupling hydraulic tools. Failure to do so can result in damage to the quick couplers and cause overheating of the hydraulic system.
- Operate the tool within its rated capacity. Do not expect a small tamper to do the job of larger models.
- Do not use the tool for applications for which it was not designed.
- Never operate a tamper without holding it against the work suface.
- Do not attempt to compact broken concrete or asphalt rubble. Tampers are intended for compactable materials only.

HYDRAULIC HOSE REQUIREMENTS

HOSE TYPES

Hydraulic hose types authorized for use with Stanley Hydraulic Tools are as follows:

❶ Labeled and certified non-conductive

❷ Wire braided (conductive)

❸ Fabric braided (not certified or labeled non-conductive)

Hose ❶ listed above is the only hose authorized for use near electrical conductors.

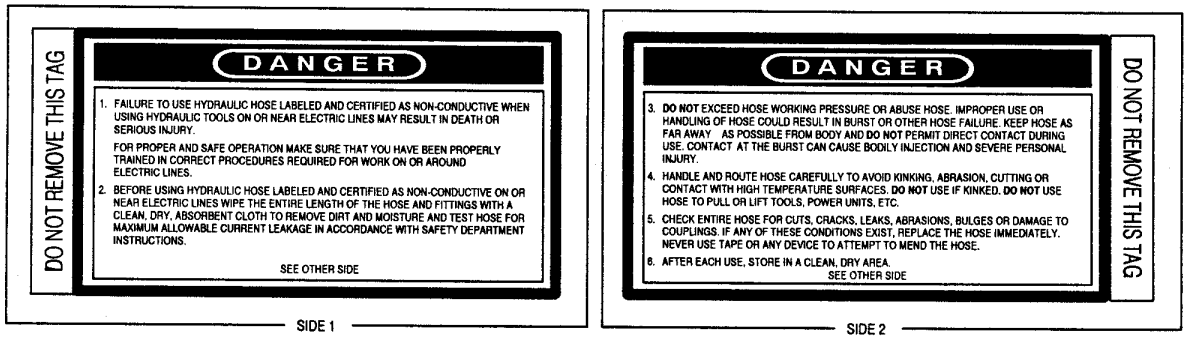
Hoses ❷ and ❸ listed above are **conductive** and **must never** be used near electrical conductors.

To help ensure your safety, the following DANGER tags are attached to all hoses purchased from Stanley Hydraulic Tools. DO NOT REMOVE THESE TAGS.

If the information on a tag is illegible because of wear or damage, replace the tag immediately. A new tag can be obtained at no charge from your Stanley distributor.

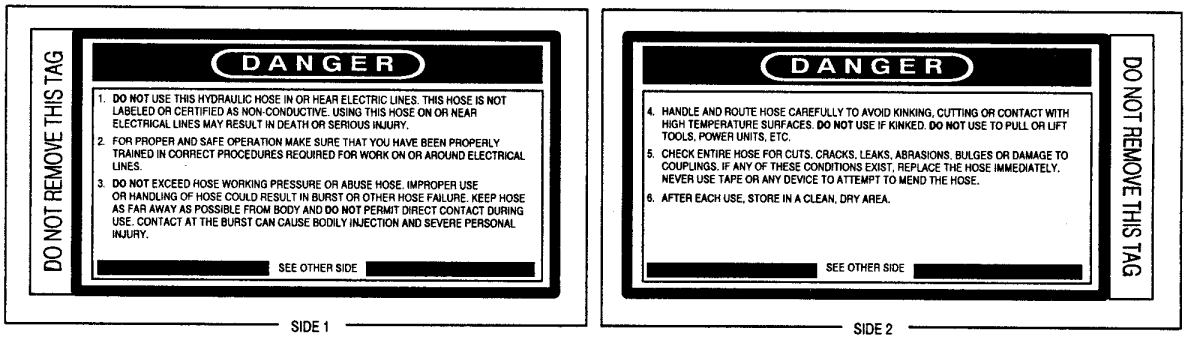
❶ CERTIFIED NON-CONDUCTIVE

This tag is attached to all certified and labeled **non-conductive** hose.



❷ AND ❸ WIRE- AND FABRIC-BRAIDED (NOT CERTIFIED OR LABELED NON-CONDUCTIVE)

This tag is attached to all **conductive** hose.



HOSE PRESSURE RATING

The rated working pressure of the hydraulic hose **must be equal to or higher than** the relief valve setting on the hydraulic system used to power the hydraulic tamper.

HYDRAULIC SYSTEM REQUIREMENTS

- The hydraulic system should provide a flow of 7-9 gpm/26-34 lpm at an operating pressure of 1000-2000 psi/70-140 bar. Recommended relief valve setting is 2100-2250 psi/145-155 bar.

- The hydraulic system should not have more than 250 psi/17 bar backpressure measured at the tool end of the operating hoses. The system conditions for measurement are at maximum fluid viscosity of 400 ssu/82 centistokes (minimum operating temperatures).

- The hydraulic system should have sufficient heat rejection capacity to limit the maximum fluid temperature to 140° F/60° C at the maximum expected ambient temperature. The recommended minimum cooling capacity is 5 hp/3.73 kW at a 40° F/4° C difference between ambient temperature and fluid temperature.

- The hydraulic system should have a minimum of 25 micron full-flow filtration. It is recommended that filter elements be sized for a flow of at least 30 gpm/114 lpm for cold temperature startup and maximum dirt holding capacity.

- The hydraulic fluid used should have a viscosity between 100 and 400 ssu/20 and 82 centistokes at the maximum and minimum expected operating temperatures. Hydraulic fluids of petroleum base with antiwear properties and viscosity indexes over 140 meet the recommended requirements over a wide range of operating temperatures.

- The recommended hose size is 0.500-inch/12 mm I.D. to 50 ft/15 m long and 0.625-inch/16 mm I.D. minimum up to 100 ft/30 m long.

- Closed center systems must be flow limited using inline flow controls or flow limited as a result of system controls.

OPERATION

PREOPERATION PROCEDURES

CHECK POWER SOURCE

1. Using a calibrated flowmeter and pressure gauge, check that the hydraulic power source develops a flow of 7-9 gpm/26-34 lpm at 1000-2000 psi/70-140 bar.

2. Make certain that the hydraulic power source is equipped with a relief valve set to open at 2250 psi/155 bar, maximum.

CONNECT HOSES

1. Wipe all hose couplers with a clean lint-free cloth before making connections.

2. Connect the hoses from the hydraulic power source to the couplers on the tool hoses. It is a good practice to connect the return hose first and disconnect it last to minimize or eliminate trapped pressure within the tamper.

Note: If uncoupled hoses are left in the sun, pressure increase inside the hoses can make them difficult to connect. Whenever possible, connect the free ends of hoses together.

3. Observe the flow indicators stamped on hose couplers to ensure that the oil flow will be in the proper direction. The female coupler on the tool is the inlet coupler. See illustration in PARTS LIST section for tool port identification.

OPERATION PROCEDURES

TOOL OPERATION

1. Observe all safety precautions.

2 Place the tamper on the surface to be compacted

3. Squeeze the trigger to start the tamper.

⚠ WARNING

The tamper will rise quichly when first turned on. Do not stand over or place any part of your body on top of the tamper. Wear safety shoes.

Note: Partially depressing the trigger allows the tool to run at a slow speed, making it easier to start or control.

4. Guide the tamper using both hands. One on the "ON-OFF" valve trigger and the other at the tapered section at the end of the handle tube.

5. When backfilling a deep hole, compact (tamp) the backfill after a maximum of 6 inches/15 cm of material is added to the hole. This will ensure maximum compaction of the filled hole and minimize any settling that may occur.

Good maintenance practice keeps the tamper on the job and increases its service life.

The most important maintenance practice is to keep the hydraulic fluid clean at all times. Contaminated hydraulic fluid causes rapid wear and/or failure of internal parts.

Follow the procedure contained in the HYDRAULIC SYSTEM REQUIREMENTS section of this manual to ensure peak performance from the tool.

Never disassemble the tool unless proper trouble-shooting procedures have isolated the problem to an internal part. Then disassemble the tool only to the extent necessary to replace the defective part. KEEP CONTAMINANTS SUCH AS DIRT AND GRIT AWAY FROM INTERNAL PARTS AT ALL TIMES.

Always determine and correct the cause of the problem prior to assembly. Further wear and tool failure can result if the original cause is not corrected.

SERVICE INSTRUCTIONS

PRIOR TO DISASSEMBLY

- Clean exterior of tool.

- Obtain seal kit Part Number 04671 so you can replace all seals exposed during disassembly. Note orientation of seals before removing them. Install new seals the same way.

Note: For orientation of the parts identified in the following procedures, refer to the parts location illustrations contained at the back of this manual.

TO REMOVE THE HANDLE ASSEMBLY

1. Place the tamper in vise with soft jaws,clamping on the large flat faces of the block and tube assembly, with the handle assembly to the right and the trigger in the up position.

2. Place a wrench across the flat portion of the "ON-OFF" valve body, slide the protection cover off of the retaining nut and loosen the nut with a 2-1/8 inch wrench.

Pull the valve body away from the handle assembly.

3. Remove the four 5/16-18 x 1 1/4 inch/32 mm long capscrews and washers securing the handle assembly to the block and tube assembly and slide the handle assembly off over the oil tubes.

4. Remove the oil tubes from the fittings on the block and tube assembly as required.

TO DISASSEMBLE THE VALVE ASSEMBLY

1. Drive the two 5/32 inch/4 mm diameter roll pins out of the trigger. Once removed, the trigger, spring and valve spool may be removed from the valve body.

2. Carefully remove the o-ring from within the valve spool bore using o-ring service tools.

TO DISASSEMBLE THE LOWER ASSEMBLY

1. Remove the 7/16-20 x 1 1/2 inch/38 mm long capscrew and lockwasher securing the tamper shoe to the piston. Tap on the top of the tamper shoe with a soft face hammer to remove it from the piston taper.

If the tamper shoe is not removed easily as above, thread the retaining screw approximately 3/4 of the way in and tap on its head with a hammer while pulling on the shoe.

2. Loosen the jam nut and unscrew the nose from the block and tube assembly.

3. Remove the spacer, cushion and all seals from the nose. To access the piston seal on current nose design, remove the canned wiper seal using an oil seal puller, screwdriver or bearing puller.

4. Remove the felt washer retaining ring,seal washer and rod seal using o-ring service tools.

5. Pull the piston assembly from the block and tube assembly. The front sleeve and thrust bridge washer will be removed with the piston assembly.

6. Remove the back sleeve and oil tube from the block and tube assembly by using service tool Part Number 01120 or a legth of 3/8-16 Redi-Bolt threaded into the end of oil tube.

IMPORTANT

Remove the flow sleeve by placing a hooked tool into the 5/16 inch/8 mm holes in the lower end of the sleeve. Be carefull to avoid damage to the bore.

7. To remove the forward/reverse spool from the block and tube assembly, remove the two end caps. The forward/reverse spool should be free in its bore, but may require a push to remove.

Note: The insert pressed into the block and tube assembly for the forward/reverse spool is not serviceable. It should be tight in its bore with the slot on either end perpendicular to the block and tube center line.

PRIOR TO ASSEMBLY

- Clean all parts with a degreasing solvent.

- Ensure that all seals that were exposed during assembly are replaced with new parts.

- Apply clean grease or o-ring lubricant to all parts during reassembly.

Note: For orientation of the parts identified in the follwing procedures, refer to the parts location illustrations contained at the back of this manual.

1. Inspect all parts for excessive wear or damage.

2. Install one .116 x 1.171 I.D. inch o-ring and end cap in one side of the block and tube assembly. Install the forward/reverse spool and remaining o-ring and end cap from the opposite side.

Note: Spool should move freely in its bore without binding.

3. Place the block and tube assembly in a bench vise with soft jaws and clamp on the large flat faces of the block.

4. If the flow sleeve is still in position on the roll pin in the bottom of the block and tube assembly bore, proceed to step (5). If the flow sleeve has shifted position or has been removed, it must be repositioned using Part Number 01949 Sleeve Installation Wrench.

5. Insert the flow sleeve into the block and tube assembly slotted end first. Note the position of the doweling hole in the end of the flow sleeve and the pin in the bottom of the block and tube bore. Align these features as the flow sleeve is inserted. Place the projection on the end of Part Number 01949 Sleeve Installation Wrench in the slot on the end face of the flow sleeve.

Push the flow sleeve into place, rotating back and forth as required to align the pin until the groove in the Sleeve Installation Wrench is flush with the end of the block and tube assembly.

IMPORTANT

Do not force the flow sleeve into place or attempt further assembly without the flow sleeve in the proper position.

6. Insert the oil tube (small end first) into the counterbored end of the back sleeve. Loosely thread Part Number 01120 Tamper Sleeve Tool into the oil tube thread. Place a new o-ring into the groove on the end face of the oil tube and retain with grease. Replace the two oil control seals in the grooves of the back sleeve (grooves with multiple holes).

Slide this entire assembly into the flow sleeve, and remove the Tamper Sleeve Tool by pushing firmly as you rotate it counterclockwise.

7. Insert the piston (taperd end first) into the large end of the front sleeve. (The four grooves on the front sleeve O.D. are towards the large end of the piston).

Insert the assembly into the flow sleeve using your fingers to push the front sleeve into place. (The hollow end of Part Number 01120 Tamper Sleeve Tool may be used to push the front sleeve into place).

8. Install the bridge washer (beveled side out) over the piston and against the front sleeve and flow sleeve faces.

9. Replacing the piston seal in the early nose designs

A. On the first nose design, press the canned wiper seal (lip side out) into the counterbore on the tapered end of the nose until flush with the end.

B. Insert the white cup seal(lip side out) into the sealcounterbore on the threaded end of the nose. Place the black back-up ring (not split) on top of seal followed by the steel spacer washer, 1/8 inch x 1 I.D. o-ring and cushion, chamfered/notched side out.

C. On the second nose design install the black rod seal (lip side first) into the seal groove in the

I.D. of the tapered end. Install the gray split back-up washer in the outside end of the seal groove.

Note: The washer fits in the small counterbore within the rod seal.

D. Install the felt washer in the counterbore on the tapered end followed by the canned wiper seal (lip side out). The wiper seal is to be pressed flush with the end of the nose.

E. Place the steel spacer washer, 1/8 x 1 inch I.D. o-ring and cushion (chamfered/notched side out) into the counterbore on the threaded end.

F. Replace the 1/16 x 1 3/4 inch I.D. o-ring in the O.D. groove.

10. Replace the seals in the current nose as follows:

A. Press the rod seal (lip side in) into the lower end of the nose. Make sure the seal is positioned against the inner shoulder of the nose.

B. Install the seal washer in the nose. Push it firmly against the rod seal.

C. Secure the rod seal and seal washer in place by installing the spirolox retaining ring.

D. Install the felt washer in the nose, then install the rod wiper (lip side out). The edge of the wiper must be flush with the end of the nose.

E. Install the 1/8 x 1 inch/3 mm x 25 mm I.D. o-ring and cushion, chamfered/notched side out, into the counter-bore on the threaded end.

F. Install the 1/16 x 1 3/4 inch/1.5 mm x 44.5 mm I.D. o-ring in the outside groove of the nose.

11. Install the nose, as assembled above, over the piston and screw into the block and tube assmbly and tighten securely.

12. Replace the jam nut and tighten securely.

13. Install the tamper shoe in the piston rod and secure with the 7/16-20 x 1 1/2 inch/38 mm long capscrew.

TO ASSEMBLE THE VALVE ASSEMBLY

1. Replace the o-rings within the spool bore.

2. Insert the valve spool assembly (small end first) through the valve body, from the side opposite the trigger.

3. Place the valve spring on the valve spool projecting through the trigger side, followed by the trigger.

4. Align the trigger with the corresponding holes in the valve spool and valve body using a 1/8 inch or 5/32 inch/3 or 4 mm diameter punch, and drive the 5/32 inch/4 mm diameter roll pins into place.

TO ASSEMBLE THE HANDLE ASSEMBLY, OIL TUBES AND VALVE ASSEMBLY

A. Insert the plain ends of the oil tubes into the tube fiitings on the block and tube assembly.

B. Install the handle assembly over the oil tubes and secure to the block and tube assembly with four 5/16-18 x 1-1/4 inch/32 mm long capscrews and lockwashers.

C. Install new o-rings in the oil tube ports of the valve body.

D. Push the on-off valve assembly over the tubes until mating with the handle tube flare.

Note: The pressure oil tube is located on the side opposite the trigger and should correspond to the "in" port on the block and tube assembly.

E. Apply #292 loctite to the valve body threads. Place a wrench across the flat area of the valve body and tighten the tube nut to 200 lb ft/270 Nm with a 2-1/8 inch wrench.

Slide the plastic cover in place over the tube nut.

IMPORTANT

Do not let the valve body rotate relative to the tamper lower assembly. This will avoid twisting the oil tubes within the handle assembly.

TROUBLESHOOTING

If symtoms of poor performance develope, the following chart can be used as a guide to correct the problem.

When diagnosing faults in operation of the tamper, always check that the hydraulic power source is supplying the correct hydraulic flow and pressure to the tamper as listed in the table. Use a flow meter known to be accurate. Check the flow with the hydraulic fluid temperature at least 80°F/27°C.

PROBLEM	CAUSE	REMEDY
Tool does not run.	Power unit not functioning.	Check power unit for proper flow and pressure 7-9 gpm/26-34 lpm 1000-2000 psi/70-140 bar.
	Couplers or hoses blocked.	Remove obstruction.
	Mechanical failure.	Disassemble tool, inspect lower piston rod and/or nose for scoring damage. Inspect for other mechanical failures.
	Pressure and return hoses reversed.	Correct for proper flow direction. a. Oil tubes reversed at valve. b. Couplers backwards.
	Backpressure too high.	Check hydraulic system for excessive backpressure over 250 psi/17 bar measured at the end of the tool operating hoses..
Piston extends but does not retract (reciprocate).	Pressure and return reversed.	Correct for proper flow direction at power unit or tool.
	Incorrect assembly	Review service instructions for proper assembly. Also ckeck for: a. Flow sleeve lined up correctly with locating pin. b. Oil tubes reversed at on-off valve. c. Front sleeve in correctly. d. Thrust bridge washer in correctly.
	Backpressure too high.	Check hydraulic system for excessive backpressure over 250 psi/17 bar measured at the end of the tool operating hoses.

PROBLEM	CAUSE	REMEDY
Does not compact effectively.	Power unit not functioning.	Check power unit for proper flow and pressure 8 gpm/30 lpm 1500 psi/105 bar.
	Couplers or hoses blocked.	Remove obstruction.
	Fluid too hot (above 140°F/60°C) or too cold (below 60°F/15.5°C).	Provide cooler to maintain proper fluid temperature (100-130°F/38-54°C).
	Tamper shoe too large for soil conditions.	Use smaller shoe for backfilling operations Part Number 01849.
	Backpressure too high.	Check hydraulic system for excessive backpressure (over 250 psi/17 bar measured at the end of the tool operating hoses).
Tamper operates slow.	Low gpm supply from power unit.	Check power unit for proper flow. Optimum flow 8 gpm/30 lpm.
	High backpressure	Check hydraulic system for excessive backpressure (over 250 psi/17 bar measured at the end of the operating hoses).
	Couplers or hoses blocked.	Remove restrictions.
	Fluid too hot (above 140°F/60°C) or too cold (below 60°F/15.5°C).	Check power unit for proper fluid temperature. Bypass cooler to warm fluid up, or provide cooler to maintain proper temperature.
Tamper gets hot.	Hot fluid going through tool.	Check power unit. Be sure flow rate is not too high causing excess fluid to go through the relief valve. Provide cooler to maintain proper fluid temperature 100-130°F/38-54°C. Eliminate flow control devices.
Fluid leakage: a. On piston rod.	Lower piston seal failure.	Replace seal and wiper, piston and nose as required.
b. Around trigger.	Valve spool seal failure.	Replace seals.
c. Around spool end caps.	O-ring failure.	Replace o-rings.

SPECIFICATIONS

Weight. ..... 23 lbs/10.5 kg
Pressure Range. ..... 1000-2000 psi/70-140 bar
Flow Range. ..... 7-9 gpm/26-34 lpm
Optimum Flow. ..... 8 gpm/30 lpm
Length. ..... 49-55 IN/124-140 cm
Width. ..... 4 in/10.2 cm
System Type. ..... HTMA TYPE II, O.C. or C.C.
Port Size. ..... SAE 8 o-ring port in valve (3/4-16 THD)

NOTE

Weights, dimensions, and operating specifications listed are subject to change without notice. Where specifications are critical to your application, please consult the factory.

ACCESSORIES

22814	TA55 Upgrade Kit
04671	Seal Kit
00833	Kidney - shaped Shoe 3 in. x 8 in. Diameter
00840	Round Shoe 6 in. Diameter
01020	Ground Rod Driver 1.050 in./26 mm I.D.
01070	Rectangular Shoe 4 in. x 8 in. Diameter
01081	Square Shoe 8 in. x 8 in. Diameter
01849	Round Shoe 4 in. Diameter

SERVICE TOOLS

01120	Tamper Sleeve Tool
01949	Sleeve Installation Tool
04337	O-Ring Tool Kit

WARRANTY

Hand held tools and their parts are warranted against defects in materials and workmanship for a period of 12 months from the date of purchase, except for cutting parts, steels and other parts not manufactured by Stanley (such as impact mechanisms, alternators, regulators and hoses).

The Warranty Registration Card packed with the tool must be filled out and returned to Stanley upon receipt of the tool.

Stanley reserves the right to replace or repair only those parts which under our examination prove to have been defective at the time of purchase.

Shipping charges are pre-paid by the customer unless otherwise autherized by Stanely.

The warranty is void if maximum flow and pressure ratings are exceeded.

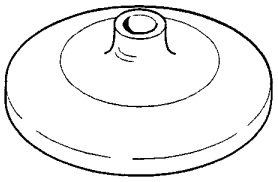
There is no other warranty expressed or implied.

SERVICE AND REPAIR NOTES

ROUND SHOE

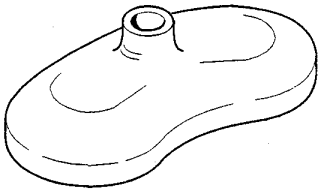
Part No. 00840 6 inch Dia. Standard/152 mm

Part No. 01849 4 inch Dia. Special/102 mm



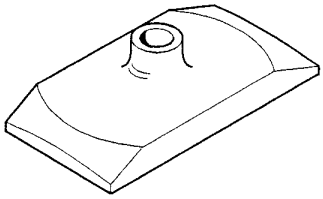
KIDNEY SHOE

Part No. 00833



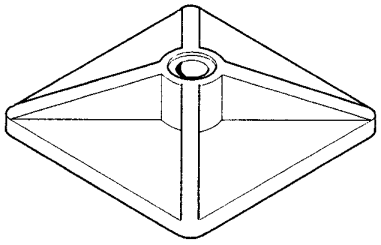
RECTANGULAR SHOE

Part No. 01070 4 x 8 inch/10 x 20 cm

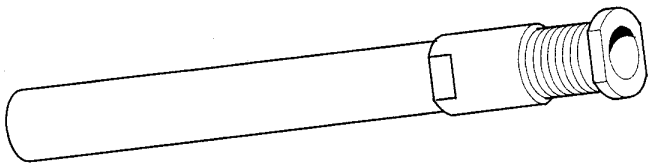


SQUARE SHOE

Part No. 01081 8 x 8 inch/20 x 20 cm



TAMPER SHOES

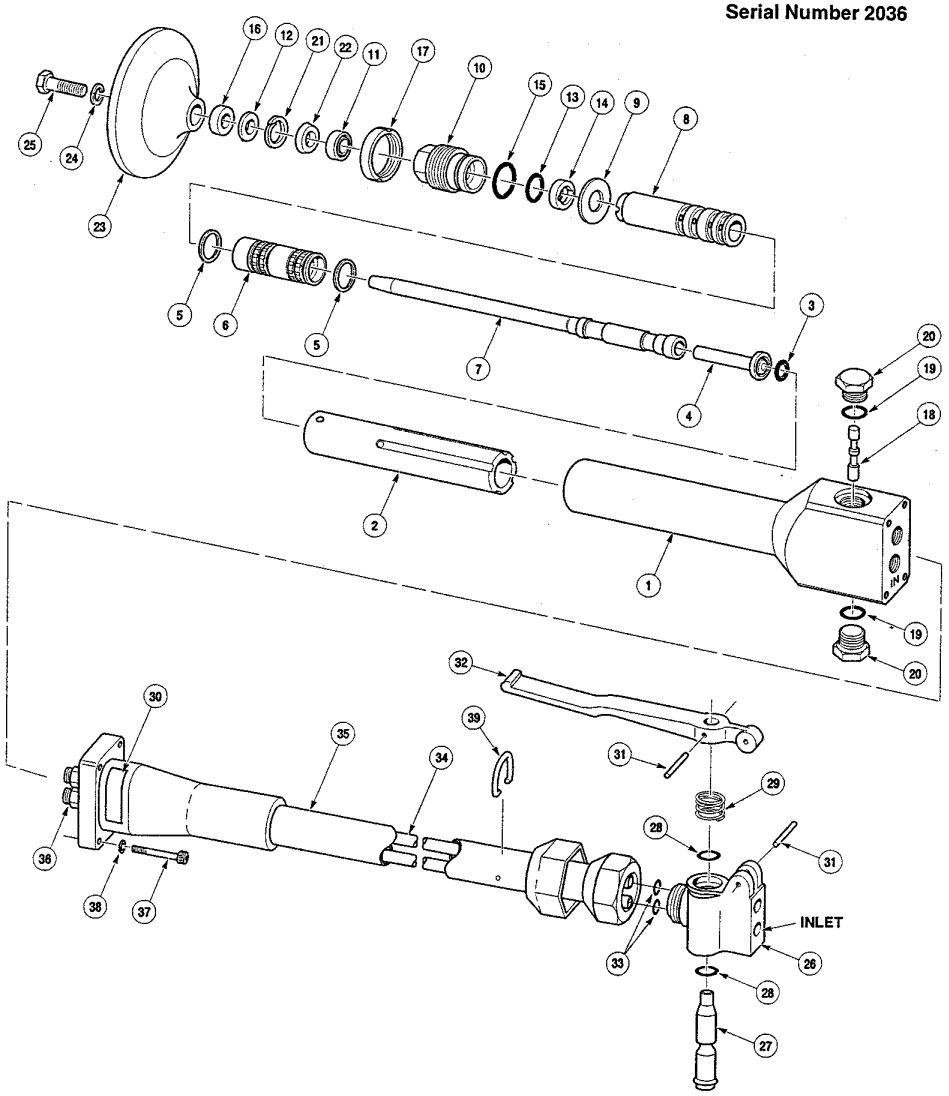


GROUND ROD DRIVER
(1.050 inch/26.7 mm DIA. BORE)
Part Number 01020

SEAL KIT DATA

Part No.	Qty.	Description
Seal Kit Part No. 04671		
15016	1	Wiper
00831	1	Seal
00834	1	O-Ring
01262	1	O-Ring
00940	1	O-Ring
00941	2	O-Ring
00956	2	Oil Control Seal
00175	2	O-Ring
01211	2	O-Ring
07242	1	Back-Up Washer
07245	1	Seal
00830	1	Seal
08434	1	Felt Washer
6533	1	O-Ring
14891	1	Seal

For Models after Serial Number 2036



PARTS LIST

Item No.	Part No.	Qty.	Description
	19225	1	**Lower Tamper Assembly** (Includes Items 1 thru 22)
1	14889	1	Block and Tube Assembly
2	01036	1	Flow Sleeve
3	00940	1	O-Ring, 1/16 x 7/8 ID (90 Duro) ⊙
4	00806	1	Oil Tube
5	00956	2	Seal-Oil Control ⊙
6	00927	1	Back Sleeve
7	19224	1	Piston
8	01037	1	Front Sleeve
9	01038	1	Thrust Bridge Washer
10	14883	1	Nose
11	14891	1	Seal, Disogrin-045 ⊙
12	08434	1	Felt Washer ⊙
13	00834	1	O-Ring, 1/8 x 1 ID (90 Duro) ⊙
14	00823	1	Cushion
15	01262	1	O-Ring, 1/16 x 1-3/4 ID ⊙
16	15016	1	Wiper, Disogrin-110-005 ⊙
17	01795	1	Nut, Jam-Special
18	00819	1	Spool, Forward/Reverse
19	06533	2	O-Ring, 1.171 x 1.403 x .116 ⊙
20	14882	2	End Cap
21	04902	1	Retaining Ring
22	14884	1	Seal Washer
23	00840	1	Tamper Foot (Shoe)
24	00825	1	Lockwasher, 7/16
25	00845	1	Capscrew, 7/16-20 x 1-1/2
26	04897	1	Valve Body Assembly
27	04480	1	Valve Spool Assembly, o.c.
	04481	1	Valve Spool Assembly, c.c.
28	01211	2	O-Ring, 5/8 x 3/4 x 1/16 ⊙
29	04097	1	Spring
30	03783	1	GPM Sticker
31	00114	2	Roll Pin, 5/32 x 1
32	04525	1	Trigger
33	00175	2	O-Ring, 1/2 x 5/8 x 1/16 (90 Duro) ⊙
34	04527	2	Oil Tube (2 Ft.)
	04573	2	Oil Tube (1 Ft.)
35	04528	1	Handle Assembly (2 Ft.)
	04574	1	Handle Assembly (1 Ft.)
36	01236	2	Fitting, 1/2 Tube to 3/8 NPT Male
37	00144	4	Capscrew, 5/16-18 x 1-1/4 Hex. Soc. Hd.
38	00145	4	Lockwasher, 5/16 High Collar
39	04533	1	Bail

NOTE: Use Part Name and Number when ordering.

⊙ Denotes Part in Seal Kit

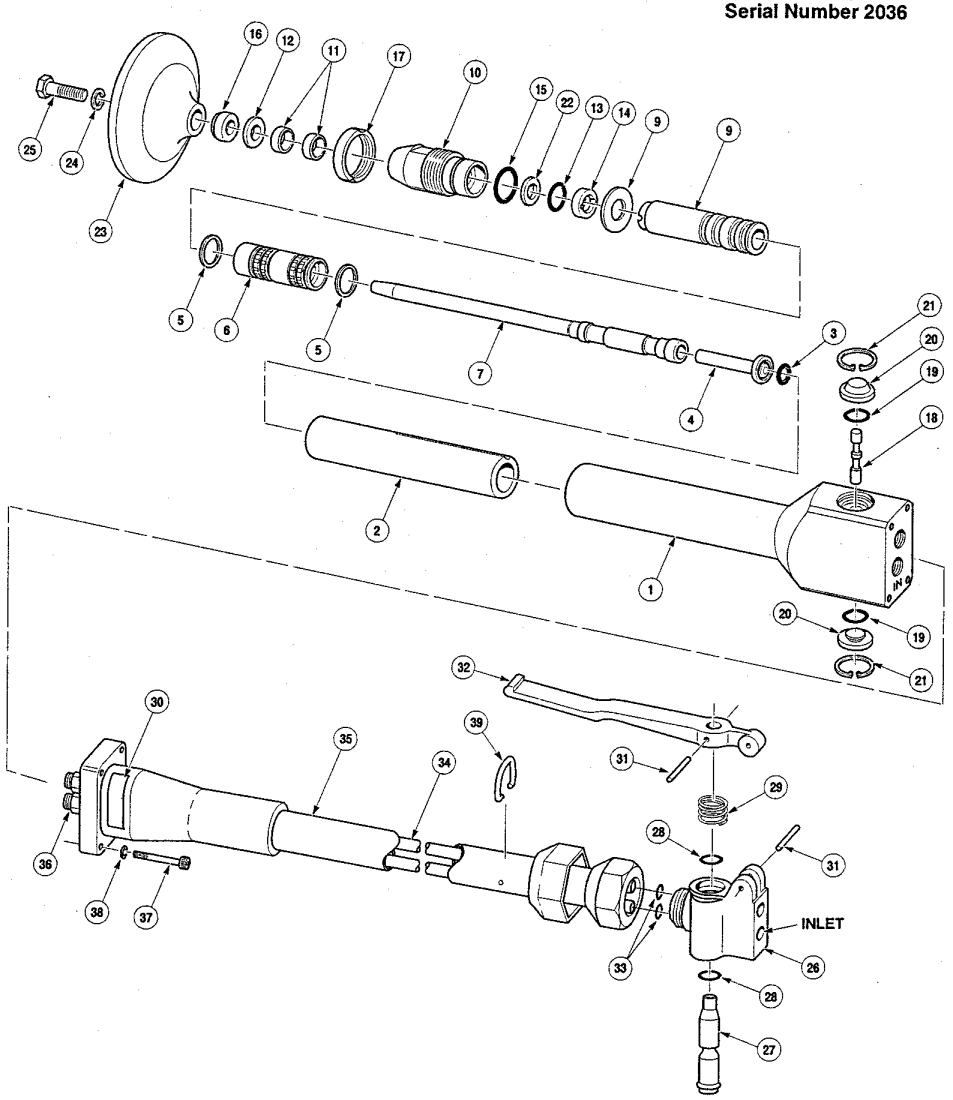
REPAIR AND SEAL KIT DATA

Part No.	Qty.	Description
Repair Kit Part No. 04672		
08426	1	Nose
01037	1	Front Sleeve
00927	1	Back Sleeve
04671	1	Seal Kit

Part No.	Qty.	Description
Seal Kit Part No. 04671		
03934	1	Wiper
00831	1	Seal
00834	1	O-Ring
01262	1	O-Ring
00940	1	O-Ring
00941	2	O-Ring
00956	2	Oil Control Seal
00175	2	O-Ring
01211	2	O-Ring
07242	1	Back-Up Washer
07245	1	Seal
00830	1	Seal
08434	1	Felt Washer

NOTE: Seal Kit Included in Repair Kit

For Models up to Serial Number 2036



PARTS LIST

Item No.	Part No.	Qty.	Description
	02545	1	**Lower Tamper Assembly** (Includes Items 1 thru22)
1	01785	1	Block and Tube Assembly
2	01036	1	Flow Sleeve
3	00940	1	O-Ring, 1/16 x 7/8 ID (90 Duro) ⊙
4	00806	1	Oil Tube
5	00956	2	Seal-Oil Control ⊙
6	00927	1	Back Sleeve •
7	02585	1	Piston Assembly
8	01037	1	Front Sleeve •
9	01038	1	Thrust Bridge Washer
10	08426	1	Nose •
11	00830	1	Seal (2 piece) ⊙
12	08434	1	Felt Washer ⊙
13	00834	1	O-Ring, 1/8 x 1 ID (90 Duro) ⊙
14	00823	1	Cushion
15	01262	1	O-Ring, 1/16 x 1-3/4 ID ⊙
16	03934	1	Wiper ⊙
17	01795	1	Nut, Jam-Special
18	00819	1	Spool, Forward/Reverse
19	00941	2	O-Ring, 1/16 x 1-1/8 ID (90 Duro) ⊙
20	01096	2	End Cap
21	00837	2	Retaining Ring
22	00810	1	Spacer
23	00840	1	Tamper Foot (Shoe)
24	00825	1	Lockwasher, 7/16
25	00845	1	Capscrew, 7/16-20 x 1-1/2
26	04897	1	Valve Body Assembly
27	04480	1	Valve Spool Assembly, o.c.
	04481	1	Valve Spool Assembly, c.c.
28	01211	2	O-Ring, 5/8 x 3/4 x 1/16 ⊙
29	04097	1	Spring
30	03783	1	GPM Sticker
31	00114	2	Roll Pin, 5/32 x 1
32	04525	1	Trigger
33	00175	2	O-Ring, 1/2 x 5/8 x 1/16 (90 Duro) ⊙
34	04527	2	Oil Tube (2 Ft.)
	04573	2	Oil Tube (1 Ft.)
35	04528	1	Handle Assembly (2 Ft.)
	04574	1	Handle Assembly (1 Ft.)
36	01236	2	Fitting, 1/2 Tube to 3/8 NPT Male
37	00144	4	Capscrew, 5/16-18 x 1-1/4 Hex. Soc. Hd.
38	00145	4	Lockwasher, 5/16 High Collar
39	04533	1	Bail

NOTE: Use Part Name and Number when ordering.

- • Denotes Part in Repair Kit
- ⊙ Denotes Part in Seal Kit

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