

# TT46 HYDRAULIC TIE TAMPER



**USER MANUAL** Safety, Operation and Maintenance



© 2014 Stanley Black & Decker, Inc. New Britain, CT 06053 U.S.A. 60685 2-2015 Ver-10

#### **DECLARATION OF CONFORMITY**

DECLARATION OF CONFORMITY ÜBEREINSTIMMUNGS-ERKLARUNG DECLARATION DE CONFORMITE CEE DECLARACION DE CONFORMIDAD DICHIARAZIONE DI CONFORMITA

Surname and First names/Familiennname und Vornamen/Nom et prénom/Nombre y apellido/Cognome e nome

hereby declare that the equipment specified hereunder: bestätige hiermit, daß erklaren Produkt genannten Werk oder Gerät: déclare que l'équipement visé ci-dessous: Por la presente declaro que el equipo se especifica a continuación: Dichiaro che le apparecchiature specificate di seguito:

1.	Category:	
	Kategorie:	
	Catégorie:	
	Categoria:	
	Categoria:	

2.

I, the undersigned: Ich, der Unterzeichnende:

El abajo firmante: lo sottoscritto:

Je soussigné:

#### **Tie Tamper, Hydraulic**

Stanley

TT46133

All

- 3. Type/Typ/Type/Tipo/Tipo:
- Serial number of equipment: Seriennummer des Geräts: Numéro de série de l'équipement: Numero de serie del equipo: Matricola dell'attrezzatura:

Make/Marke/Margue/Marca/Marca

Has been manufactured in conformity with Wurde hergestellt in Übereinstimmung mit Est fabriqué conformément Ha sido fabricado de acuerdo con E' stata costruita in conformitá con

Directive/Standards	No.	Approved body
Richtlinie/Standards	Nr	Prüfung durch
Directives/Normes	Numéro	Organisme agréé
Directriz/Los Normas	No	Aprobado
Direttiva/Norme	n.	Collaudato
Machinery Directive	2006/42/EC:2006	Self
EN ISO	3744:2010	Self
EN	11148-4:2010	Self

 Special Provisions: None Spezielle Bestimmungen: Dispositions particulières: Provisiones especiales: Disposizioni speciali:

Sound Power Level: 107 dBA Vibration Level: 6.3 m/s°

6. Representative in the Union: Patrick Vervier, Stanley Dubuis 17-19, rue Jules Berthonneau-BP 3406 41034 Blois Cedex, France. Vertreter in der Union/Représentant dans l'union/Representante en la Union/Rappresentante presso l'Unione

Done at/Ort/Fait à/Dado en/Fatto a <u>Stanley Hydraulic Tools, Milwaukie, Oregon USA</u> Date/Datum/le/Fecha/Data 1-10-11

Signature/Unterschrift/Signature/Firma/Firma	Andy Wish h	<
Position/Position/Fonction/Cargo/Posizione	Director of Product Developm	ent

STANLEY.

STANLEY.

Hydraulic Tools

(F

# **TABLE OF CONTENTS**

DECLARATION OF CONFORMITY	2
SAFETY SYMBOLS	4
SAFETY PRECAUTIONS	5
TOOL STICKERS & TAGS	6
TOOL HOSE INFORMATION	7-8
HTMA REQUIREMENTS	9
OPERATION	
PREOPERATION PROCEDURES	10
TOOL OPERATION	10
COLD WEATHER OPERATION	10
EQUIPMENT PROTECTION & CARE	
TROUBLESHOOTING	12
CHARGING THE ACCUMULATOR	13-14
SPECIFICATIONS	15
ACCESSORIES	15
SERVICE TOOLS	
SOUND POWER AND VIBRATION DECLARATION	
TT46113 & TT46133 ILLUSTRATION	
TT46113 & TT46133 PARTS LIST	17
TT46112/TT4611204 ILLUSTRATION	
TT46112/TT4611204 PARTS LIST	19

#### IMPORTANT

To fill out a Product Warranty Validation form, and for information on your warranty, visit Stanleyhydraulics.com and select the Company tab, Warranty. (NOTE: The warranty Validation record must be submitted to validate the warranty).

**SERVICING:** This manual contains safety, operation, and routine maintenance instructions. Stanley Hydraulic Tools recommends that servicing of hydraulic tools, other than routine maintenance, must be performed by an authorized and certified dealer. Please read the following warning.

# **A WARNING**

#### SERIOUS INJURY OR DEATH COULD RESULT FROM THE IMPROPER REPAIR OR SERVICE OF THIS TOOL.

REPAIRS AND / OR SERVICE TO THIS TOOL MUST ONLY BE DONE BY AN AUTHORIZED AND CERTIFIED DEALER.

For the nearest authorized and certified dealer, call Stanley Hydraulic Tools at the number listed on the back of this manual and ask for a Customer Service Representative.



# **SAFETY SYMBOLS**

Safety symbols and signal words, as shown below, 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.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

This safety alert and signal word indicate an imminently hazardous situation which, if not avoided, <u>will</u> result in <u>death or serious injury</u>.

This safety alert and signal word indicate a potentially hazardous situation which, if not avoided, <u>could</u> result in <u>death or serious injury</u>.

This safety alert and signal word indicate a potentially hazardous situation which, if not avoided, <u>could</u> result in <u>death or serious injury</u>.

This signal word indicates a potentially hazardous situation which, if not avoided, <u>may</u> result in <u>property damage</u>.

This signal word indicates a situation which, if not avoided, <u>will</u> result in <u>damage</u> to the equipment.

This signal word indicates a situation which, if not avoided, <u>may</u> result in <u>damage to the equipment</u>.

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.

# **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 general 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 5.

The tool will provide 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 could result in personal injury or equipment damage.



• The operator must start in a work area without bystanders. Flying debris can cause serious injury.

• Do not operate the tool unless thoroughly trained or under the supervision of an instructor. Establish a training program for all operators to ensure safe operation.

• Always wear safety equipment such as goggles, ear and head protection, and safety shoes at all times when operating the tool. Use gloves and aprons when necessary.

• The operator must be familiar with all prohibited work areas such as excessive slopes and dangerous terrain conditions.

· 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. Be sure all hose connections are tight and are in good condition.

• Do not operate the tool at oil 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.

• Do not operate a damaged, improperly adjusted, or incompletely assembled tie tamper.

• Never wear loose clothing that can get entangled in the working parts of the tool.

• Keep all parts of your body away from the moving parts. Long hair or loose clothing can become drawn into moving components.

• Do not weld, cut with an acetylene torch or hardface the tie tamper tool. Do not operate a damaged, improperly adjusted, or incompletely assembled tool.

• Always use accessories that conform to the specifications given in the OPERATION section of this manual.

• Release the trigger if the power supply has been interrupted.

• When working near electrical conductors, always assume that all conductors are energized and that insulation, clothing and hoses can conduct electricity. Use hose labeled and certified as 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.

· Do not carry the tool by hoses.

• Warning: Use of this tool on certain materials during demolition could generate dust potentially containing a variety of hazardous substances such as asbestos, silica or lead. Inhalation of dust containing these or other hazardous substances could result in serious injury, cancer or death. Protect yourself and those around you. Research and understand the materials you are cutting. Follow correct safety procedures and comply with all applicable national, state or provisional health and safety regulations relating to them, including, if appropriate arranging for the safe disposal of the materials by a qualified person.



# **TOOL STICKERS & TAGS**

28322 CE STICKER (CE)



11206 CIRCUIT TYPE C STICKER (CE)



23230 NAME TAG (4-6 GPM MODELS) 65049 NAME TAG (10 GPM MODEL)

#### NOTE:

THE INFORMATION LISTED ON THE STICKERS SHOWN, MUST BE LEGIBLE AT ALL TIMES.

REPLACE DECALS IF THEY BECOME WORN OR DAMAGED. REPLACEMENTS ARE AVAILABLE FROM YOUR LOCAL STANLEY DISTRIBUTOR.

The safety tag (P/N 15875) at right is attached to the tool 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 tool when not in use. STANLEY RAILROAD HELP DESK 1-800-549-0517 FOR CUSTOMER SERVICE OR TECHNICAL QUESTIONS

25610 RAILROAD HELP DESK STICKER



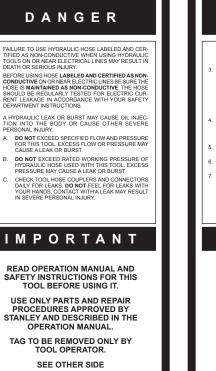
17784 SOUND POWER STICKER



28409 COMPOSITE STICKER



07589 CAUTION/GPM STICKER



DANNGER
DONNTLIFFOR CARRY TOOL BY THE HOSES. DO NOT USE KINKED, TORN ON THE HOSE DO NOT USE KINKED, TORN ON THE HOSE BUD NOT USE KINKED, TORN ON THE TOOL BEFORE PRESSURE STATEMENT OF THE TOOL BEFORE PRESSURE EVERSIES OF THE TOOL OF THE TOOL BEFORE PRESSURE EVERSIES OF THE HOSE AND STATEMENT OF THE TOOL BEFORE TO TOOL "OUT PORT REVERSIES CONNECTED TO TOOL "OUT PORT REVERSIES OF THE HYDRAULIC SYSTEMS. THIS MAY RESULT IN SEVERE PERSONAL INURY.
SYSTEMS RAVE SE MULTED IN YOUR WORK AREA.
WEATHER HYDRAULIC SUSTEMS TO LOSSER MALE.
WEATHER HYDRAULIC SUSTEMS TO LOSSER REVERSIES AND REVE

READ OPERATION MANUAL AND SAFETY INSTRUCTIONS FOR THIS TOOL BEFORE USING IT.

USE ONLY PARTS AND REPAIR PROCEDURES APPROVED BY STANLEY AND DESCRIBED IN THE OPERATION MANUAL.

TAG TO BE REMOVED ONLY BY TOOL OPERATOR.

SEE OTHER SIDE

SAFETY TAG P/N 15875 (Shown smaller then actual size)



# **HOSE TYPES**

The rated working pressure of the hydraulic hose must be equal to or higher than the relief valve setting on the hydraulic system. There are three types of hydraulic hose that meet this requirement and are authorized for use with Stanley Hydraulic Tools. They are:

Certified non-conductive — constructed of thermoplastic or synthetic rubber inner tube, synthetic fiber braid reinforcement, and weather resistant thermoplastic or synthetic rubber cover. Hose labeled certified nonconductive is the only hose authorized for use near electrical conductors.

Wire-braided (conductive) — constructed of synthetic rubber inner tube, single or double wire braid reinforcement, and weather resistant synthetic rubber cover. This hose is conductive and must never be used near electrical conductors.

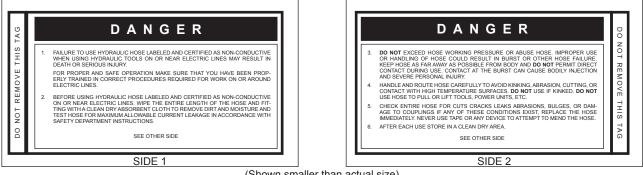
Fabric-braided (not certified or labeled non-conductive) — constructed of thermoplastic or synthetic rubber inner tube, synthetic fiber braid reinforcement, and weather resistant thermoplastic or synthetic rubber cover. This hose is not certified non-conductive and must never be used near electrical conductors.

#### HOSE SAFETY TAGS

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

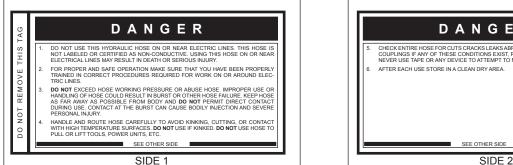
If the information on a tag is illegible because of wear or damage, replace the tag immediately. A new tag may be obtained from your Stanley Distributor.

#### THE TAG SHOWN BELOW IS ATTACHED TO "CERTIFIED NON-CONDUCTIVE" HOSE



(Shown smaller than actual size)

#### THE TAG SHOWN BELOW IS ATTACHED TO "CONDUCTIVE" HOSE.





(Shown smaller than actual size)



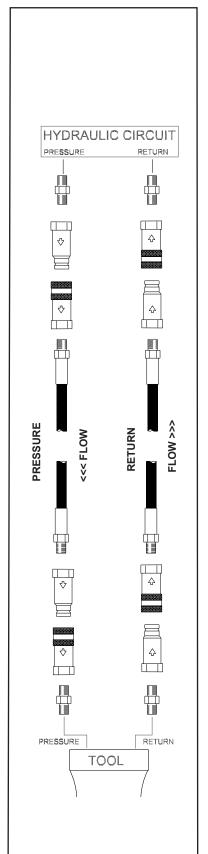
g Pressure	BAR		155	ORS	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175
Min. Working Pressure	PSI	Trucks	2250	Conductive Hose - Wire Braid or Fiber Braid -DO NOT USE NEAR ELECTRICAL CONDUCTORS	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500
USE	(Press/Return)	Utility Bucket	Both	AR ELECTRIC	Both	Both	Both	Both	Pressure	Return	Both	Pressure	Return	Pressure	Return	Pressure	Return	Pressure	Return
iameter	MM	r Braid - for I	10	NOT USE NE	10	13	13	16	16	19	16	16	19	19	25.4	16	19	19	25.4
Inside Diameter	INCH	Hose - Fibel	3/8	Braid -DO	3/8	1/2	1/2	5/8	5/8	3/4	5/8	5/8	3/4	3/4	÷	5/8	3/4	3/4	<del>.</del>
engths	METERS	Certified Non-Conductive Hose - Fiber Braid - for Utility Bucket Trucks	up to 3	Braid or Fiber	up to 7.5	7.5-30	up to 15	15-30		08-00	up to 15	00	00-01	20 60	00-00	C 4	o o n dn	0000	8-30
Hose Lengths	FEET	Certified No	up to 10	re Hose - Wire	up to 25	26-100	up to 50	51-100		000-001	up to 50	100	001-10		002-001	10 01	cz oi dn	001.00	001-07
Oil Flow	LPM		15-34	Conductiv	15-23	15-23	19-40	19-40			38-49	07 00	00-4 <i>0</i>	07 00	00-4 <i>0</i>	0007	48-00	0007	49-00
OilF	GPM		4-9		4-6	4-6	5-10.5	5-10.5		0.01-0	10-13	C 7 C 7	<u>- 1</u>	C 7 0 7	2-12	0 7 7	0 - 2	0 7 7	02

# Tool to Hydraulic Circuit Hose Recommendations

The chart to the right shows recommende minimum hose diameters for various hos engths based on gallons per minute (gpm) iters per minute (lpm). These recommenda iters are intended to keep return line pressur (back pressure) to a minimum acceptable lev el to ensure maximum tool performance.

This chart is intended to be used for hydrau tool applications only based on Stanley F draulic Tools tool operating requirements a should not be used for any other applicatior

All hydraulic hose must have at least a rated minimum working pressure equal to the maxi mum hydraulic system relief valve setting. All hydraulic hose must meet or exceed specifications as set forth by SAE J517.



# Figure 1. Typical Hose Connections

# **HOSE RECOMMENDATIONS**

#### HTMA / EHTMA REQUIREMENTS

ITMA		TOOL TY	PE	
IYDRAULIC SYSTEM REQUIREMENTS	TYPE I	TYPE II	TYPE RR	TYPE III
Flow Range Nominal Operating Pressure	4-6 gpm (15-23 lpm) 1500 psi	7-9 gpm (26-34 lpm) 1500 psi	9-10.5 gpm (34-40 lpm) 1500 psi	11-13 gpm (42-49 lpm) 1500 psi
(at the power supply outlet)	(103 bar)	(103 bar)	(103 bar)	(103 bar)
System relief valve setting (at the power supply outlet)	2100-2250 psi (145-155 bar)	2100-2250 psi (145-155 bar)	2200-2300 psi (152-159 bar)	2100-2250 psi (145-155 bar)
Maximum back pressure (at tool end of the return hose)	250 psi (17 bar)	250 psi (17 bar)	250 psi (17 bar)	250 psi (17 bar)
Measured at a max. fluid viscosity of: (at min. operating temperature)	400 ssu* (82 centistokes)	400 ssu* (82 centistokes)	400 ssu* (82 centistokes)	400 ssu* (82 centistokes
Temperature: Sufficient heat rejection capacity to limit max. fluid temperature to: (at max. expected ambient temperature)	140° F (60° C)	140° F (60° C)	140° F (60° C)	140° F (60° C)
Vin. cooling capacity at a temperature difference of between ambient and fluid temps NOTE:	3 hp (2.24 kW) 40° F (22° C)	5 hp (3.73 kW) 40° F (22° C)	6 hp (5.22 kW) 40° F (22° C)	7 hp (4.47 kW) 40° F (22° C)
Do not operate the tool at oil temperatures above 140° discomfort at the tool.				
Filter Min. full-flow filtration	25 microns	25 microns	25 microns	25 microns
Sized for flow of at least: For cold temp. startup and max. dirt-holding capacity)	30 gpm (114 lpm)	30 gpm (114 lpm)	30 gpm (114 lpm)	30 gpm (114 lpm)
Hydraulic fluid Petroleum based (premium grade, anti-wear, non-conductive) Viscosity (at min. and max. operating temps)	100-400 ssu* (2	100-400 ssu* 20-82 centistokes)	100-400 ssu*	100-400 ssu*
NOTE: When choosing hydraulic fluid, the expected oil temper most suitable temperature viscosity characteristics. Hyd over a wide range of operating temperatures.				

REQUIREMENTS	B 16Lpm at 138bar EHTMA CATEGORY	C 20Lpm at 138bar EHTMA CATEGORY	JOLpm at 138bar EHTMA CATEGORY	40Lpm at 138bar EHTMA CATEGORY	F Solpm at 138bor EHTMA CATEGORY	
Flow Range	3.5-4.3 gpm (13.5-16.5 lpm)	4.7-5.8 gpm (18-22 lpm)	7.1-8.7 gpm (27-33 lpm)	9.5-11.6 gpm (36-44 lpm)	11.8-14.5 gpm (45-55 lpm)	
Nominal Operating Pressure (at the power supply outlet)	1870 psi (129 bar)	1500 psi (103 bar)	1500 psi (103 bar)	1500 psi (103 bar)	1500 psi (103 bar)	
System relief valve setting (at the power supply outlet)	2495 psi (172 bar)	2000 psi (138 bar)	2000 psi (138 bar)	2000 psi (138 bar)	2000 psi (138 bar)	

NOTE: These are general hydraulic system requirements. See tool specification page for tool specific requirements



# **OPERATION**

#### **PREOPERATION PROCEDURES**

#### CHECK HYDRAULIC POWER SOURCE

1. Using a calibrated flowmeter and pressure gauge, check that the hydraulic power source develops a flow of 4-6 gpm/15-23 lpm at 1500-2000 psi/106-140 bar. For TT46233 Model, 7-10 gpm/26-38 lpm.

2. Make certain the hydraulic power source is equipped with a relief valve set to open at 2200-2300 psi/152-159 bar minimum. Maximum full flow pressure not to exceed 2500 psi/172 bar.

#### **INSTALL TOOL BIT**

1. Remove the two capscrews that hold the bit keeper to the lower body or on some models remove the two hex head capscrews, outer springs, and nuts that hold the bit keeper to the lower body.

2. Remove the two pair of bit-retaining spring guides and spring or on some models the one pair of bit guides from the bit keeper.

3. Insert the hex end of the bit as far as possible through the small end of the bit keeper (see parts list illustration).

4. Install the coil spring on the bit hex flange. Install a spring guide pair on each end of the spring. On some models only the one pair of bit guides need to be installed and **no** spring.

**Note:** There are two types of spring guides. Each of the two types must be installed in matched pairs. The pair used at the top of the spring have a flat end that goes against the bit collar.

Carefully install the bit keeper so that the lower spring guide fits into the lower keeper bore and that the upper flat end of the guide rests against the bit flange.

5. With the bit pulled down into the keeper, insert into the tie tamper hex, then press the bit keeper up against the lower body.

6. Tighten both capscrews or on some models install the hex head capscrews, outer springs, and nuts and tighten securely.

#### **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 tool fitting or quick disconnects. It is a good practice to connect the return hose first and disconnect it last to minimize or avoid trapped pressure within the tool.

3. If hose couplers are used, observe flow indicators stamped on hose couplers to be sure that oil will flow in the proper direction. The female coupler is the inlet (pressure) coupler.

#### NOTE:

The pressure increase in uncoupled hoses left in the sun may result in making them difficult to connect. When possible, connect the free ends of operating hoses together.

# **TOOL OPERATION**

1. Observe all safety precautions.

2. Install the appropriate tool bit for the job if not already installed.

3. Place the tamper on the surface to be compacted.

# **A WARNING**

The Tamper will rise quickly 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 pressing the trigger allows the tool to run at slow speed, making it easier to start or control.

5. Guide the tamper using both hands.

#### **COLD WEATHER OPERATION**

If the tie tamper is to be used during cold weather, preheat the system hydraulic fluid at low engine speed.

When using the normally recommended fluids, oil fluid temperature should be at or above  $50^{\circ}$  F/10° C (400 ssu/82 centistokes) before use.

Damage to the hydraulic system or tie tamper can result from use with oil that is too viscous or thick.



# **TOOL PROTECTION & CARE**



In addition to the Safety Precautions found in this manual, observe the following for equipment protection and care.

- 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 may result in damage to the quick couplers and cause overheating of the hydraulic system.
- Always store the tool in a clean dry space, safe from damage or pilferage.
- Make sure the circuit PRESSURE hose (with male quick disconnect) is connected to the "IN" port. The circuit RETURN hose (with female quick disconnect) is connected to the opposite port. Do not reverse circuit flow. This can cause damage to internal seals.
- 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/172 bar.
- Do not exceed the rated flow (see Specifications) in this manual for correct flow rate and model number. Rapid failure of the internal seals may result.
- Always keep critical tool markings, such as warning stickers and tags legible.
- Tool repair should be performed by experienced personnel only.
- Make certain that the recommended relief valves are installed in the pressure side of the system.
- Do not use the tool for applications for which it was not intended.



# TROUBLESHOOTING

If symptoms of poor performance develop, the following chart can be used as a guide to correct the problem. When diagnosing faults in operation of the wrench, always check that the hydraulic power source is supplying the correct hydraulic flow and pressure to the tool as listed in the following table. Use a flow meter known to be accurate. Check the flow with the hydraulic fluid temperature at least 80° F/27° C.

SYMPTOM	CAUSE	SOLUTION
Tie tamper does not run.	Power unit not functioning.	Check power source for proper flow and pressure, 4-6 gpm/14-23 lpm, 1500-2000 psi/106-140 bar. TT46233 Model, 7-10 gpm/26-38 lpm.
	Couplers or hoses blocked.	Remove restriction.
	Pressure and return line hoses re- versed at ports.	Be sure hoses are connected to their proper ports.
	Mechanical failure of piston or auto- matic valve.	Disassemble tamper and inspect for damaged parts.
Tie Tamper does not run effectively.	Power unit not functioning.	Check power source for proper flow and pressure, 4-6 gpm/14-23 lpm, 1500-2000 psi/106-140 bar. TT46233 Model, 7-10 gpm/26-38 lpm.
	Couplers or hoses blocked.	Remove restriction.
	Low accumulator charge (pressure hoses will pulse more than normal).	Recharge accumulator. Replace dia- phragm if charge loss continues.
	Oil too hot (above 140°F/60°C).	Provide cooler to maintain proper oil temperature (140°F/60°C).
Tie Tamper operates slow.	Low gpm supply from power unit.	Check power source for proper flow and pressure, 4-6 gpm/14-23 lpm, 1500-2000 psi/106-140 bar. TT46233 Model, 7-10 gpm/26-38 lpm.
	High back-pressure.	Check hydraulic system for excessive back-pressure (over 200 psi/14 bar).

# STANLEY.

# **CHARGING THE ACCUMULATOR**

#### CHARGING THE ACCUMULATOR

To check or charge the accumulator the following equipment is required:

• Accumulator tester (Part Number 02835).

• Charging assembly (Part Number 15304) (includes a guage w/snub valve, hose and fitting).

• NITROGEN bottle with a 800 psi/56 bar minimum charge.

1. On charge valves containing 5/8 inch hex locking nuts, first loosen the locking nut 1-1/2 turns.

2. Holding the chuck end of the Stanley tester (p/n 02835), turn the gauge fully counterclockwise to ensure the stem inside the chuck is completely retracted.

3. Thread the tester onto the charging valve of the tool accumulator (do not advance the gauge-end into the chuck end. Turn as a unit). Seat the chuck on the accumulator charging valve and hand tighten only.

4. Advance the valve stem by turning the gauge- end clockwise.

5. Connect the charge fitting on the hose to the charge valve on the 02835 Tester.

6. With the gauge and snub valve attached to the nitrogen bottle, and with the snub valve closed, open the nitrogen bottle valve.

#### NOTE:

It may be necessary to adjust the charge at 650-700 psi/45-48 bar to overcome any pressure drop through the charging system.

7. While watching the pressure gage open the snub valve allowing the gauge to read 600 to 700 psi/42 to 48 bar, close the snub valve on the charging assembly and also on the nitrogen bottle, remove the charging assembly from the accumulator tester.

8. Turn the gauge end of the tester fully counterclockwise to retract the plunger in the chuck. Then remove the tester from the charge valve.

9.On charge valves containing 5/8 inch hex locking nuts, tighten the locking nut.

#### TESTING THE ACCUMULATOR PRESSURE

1. Follow instructions 1 through 4 under "CHARGING THE ACCUMULATOR".

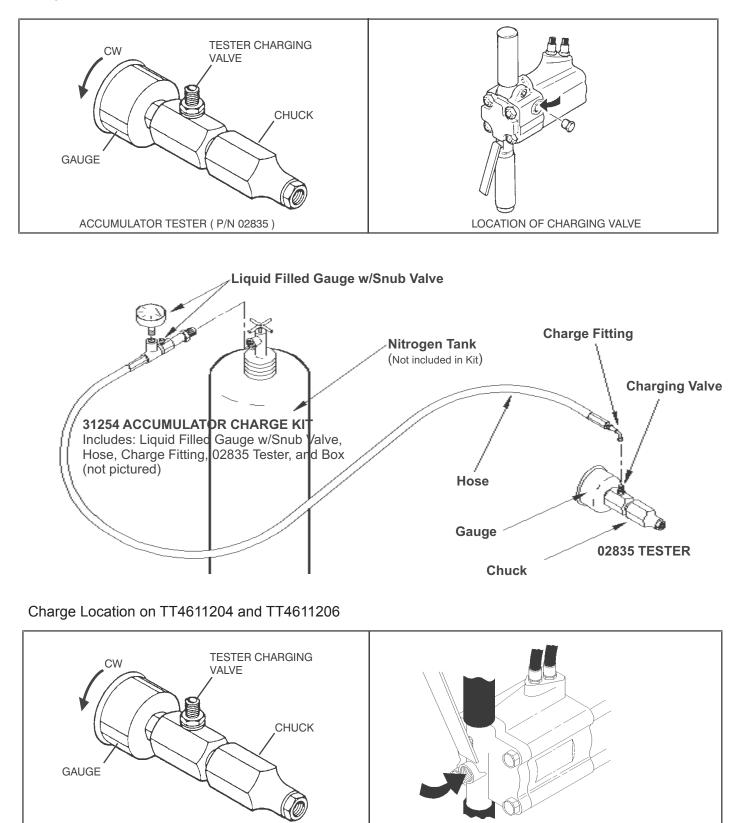
2. Read the pressure on the gauge (pressure should be between 500 & 600 psi/35 & 42 bar.

3. If the pressure is low, recharge the tool.

#### **STANLEY**.

# **CHARGING THE ACCUMULATOR**

Charge Location on TT46113, TT46113C, TT46133, TT46133B, TT46133C, TT46133UP and TT46233



ACCUMULATOR TESTER ( P/N 02835 )

**STANLEY** 

LOCATION OF CHARGING VALVE

# **SPECIFICATIONS**

#### **SPECIFICATIONS**

Pressure Range	1500-2000 psi /106-140 bar
Maximum Back Pressure	
Flow Range	4-6 gpm / 15-23 lpm
Optimum Flow	
Porting	8 SAE O-ring
Connect Size and Type	3/8 in. Male Pipe Hose Ends
Connector.	HTMA Flush Faced Coupler
Hose Whips	Yes
System Type	
Weight (Rigid "T" Handle model w/Steel)	
(Anti-Vibration model w/Steel)	
Overall Length (Rigid "T" Handle model w/Steel)	
(Antivibration model w/Steel)	
Overall Width (Rigid/Anti-Vibr. models)	

#### SOUND POWER AND VIBRATION DECLARATION

Test conducted on BR4056801 (same as TT46),operated at standard 5 gpm input	3A 3A 3A 3A 3A
Values determined according to noise test code given in ISO 15744, using the basic standard ISO3 4 Test conducted by independent notified body to comply with 2000/14/EC:20 requirements. NOTE- The sum of a measured noise emission value a its associated uncertainty represents an upper boundary of the range of values which is likely to occur in measurements.	874 005 and
Declared vibration emission value in accordance with EN 12096	$C^{2}$ $C^{2}$ $C^{2}$ $C^{2}$ $C^{2}$
Values determined according to ISO 8662-5, ISO 5349-1,2	

#### ACCESSORIES

Tie Tamper Steel 4 inch w/"V" Cut (18 inch OAL)	
Tie TAmper Steel 4 inch w/"V" Cut (18 inch OAL) Heavy Duty	
Tie Tamper Steel 4 inch w/"V" Cut (21 inch OAL)	
Tie Tamper Steel 4 inch w/"V" Cut (21 inch OAL) Heavy Duty	
Tie Tamper Steel 4 inch (24 inch OAL)	
Pre-assembled Anti-Vibration Handle Conversion Kit	

#### SERVICE TOOLS

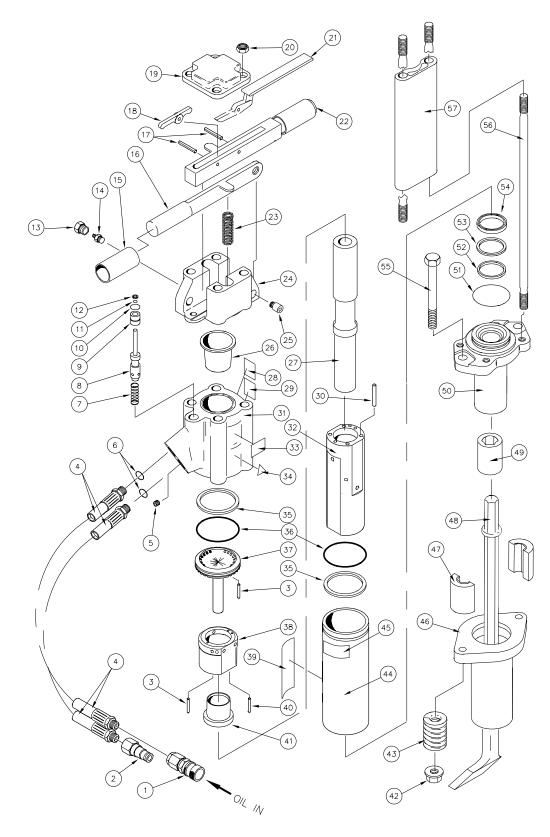
Tamping Sleeve Tool	01120
O-Ring Tool Kit	
Flow Sleeve Removal Tube	
Flow Sleeve Removal Tool	
Accumulator Cylinder Puller	

#### TEST EQUIPMENT

Accumulator Tester	02835
Accumulator Charge Kit (Includes Gauge w/Snub Valve, Hose, Charge Fitting, and Accumulator Tester	31254
Charging Assembly (Includes Gauge w/Snub Valve, Hose, and Charge Fitting).	15304
Flow and Pressure Tester.	04182



# TT46113/133/233 PARTS ILLUSTRATION



TT46113/TT46113C Use Lower End Assy Shown Below.

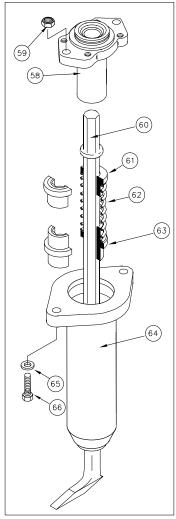


Illustration Covers Models: TT46113 TT4613C TT46133 TT46133B TT46133C TT46133 UP TT46233 TT46233 TT46233B



# TT46113/133/233 PARTS LIST

Item	Part No.	Qty	Description
1	03972 47436	1	Female Coupler (Parker) Female Coupler (Aeroquip)
	03973		Male Coupler (Parker)
2	47437	1	Male Coupler (Aeroquip)
3	02900	2	Roll Pin
	56725		Hose Assy (Parker)
4	66727	2	Hose Assy (Aeroquip)
5	12832	1	Orifice Plug
6	01605	2	O-Ring (Incl with Item 4)
7	04058	1	Spring
8	20515	1	Valve Spool
9	04057	1	Bushing
10	00293	1	O-Ring
11	01362	1	O-Ring
12	04056	1	Rod Wiper
13	07493	1	Plug
14	20499	1	Charge Valve
15	02494	2	Handle Grip
16	28369	1	Handle
17	20500	2	Spirol Pin
18	20511	1	Lever
19	28494	1	Top Plate
20	04374	4	Locknut
21	20502	1	Trigger
22	29045	1	Trigger Handle
23	20498	2	Spring
24	20505	1	Handle Pivot
25	20508	2	Pivot Screw
26	07479	1	Accumulator Diaphragm
27	12833	1	Piston
21	04385	1	Piston (TT46233 & 233B Only)
	17784		Sound Power Level Sticker (CE Models Only)
28	07589	1	GPM Sticker (TT46113,
			TT4612303 Only)
29	28409	1	Composite Sticker
30	04605	4	Push Pin
31	11588	1	Accumulator Charge Block
	07485		Flow Sleeve
32	04384	1	Flow Sleeve (TT46233 &
00			TT46233B Only)
33	28322	1	CE Sticker
34	11206	1	Circuit Type C Sticker (CE Only)
35	04381	2	Backup Ring
36	04379	2	O-Ring
37	04378	1	Porting Block
38	07480 04380	1	Automatic Valve Body Automatic Valve Body (TT46233 & TT46233B Only)
39	23230 65049	1	Name Tag Name Tag (TT46233 & TT46233B Only)
40	04571	2	Push Pin
1-0		<b>-</b>	

Item	Part No.	Qty	Description
41	04382	1	Automatic Valve
42	12307	2	Nut
43	12148	2	Spring
44	04383	1	Flow Sleeve Tube
45	25610	1	Railroad Help Desk Sticker
46	32258	1	Bit Keeper
	32249		Bit Guide (Pair) Hex Shank
47	38008	1	Bit Guide (Pair) Round Shank (TT46133/133B/ 133C/133UP/ TT46233/TT46233B Only)
48	44937 59033	1	Tie Tamper Bit Tie Tamper Bit (TT46133/ TT46233/TT46233B Only)
49	15400	1	Hex Bushing
50	31955 65046	1	Lower Body Lower Body (TT46233 & TT46233B Ony)
51	02022	1	O-Ring
52	04387	1	Rod Wiper
53	04780	1	Washer
54	04386	1	Cup Seal
55	25304	2	Capscrew
56	20517	4	Side Rod
57	29959	1	Filler
58	23147	1	Lower Body (TT46113/ TT46113C Only)
59	371500	2	ESNA Nut (TT46113/TT46113C Only)
60	44937	1	Tie Tamper Steel (TT46113/ TT46113C Only)
61	21028	1	Bit Retaining Top Spring (Guide Pair) (TT46113/TT46113C Only)
62	21029	1	Compression Coil Spring (TT46113/TT46113C Only)
63	15411	1	Bit Retaining Spring (Guide Pair) (TT46113/TT46113C Only)
64	22890	1	Bit Keeper Weldment (TT46113/ TT46113C Only)
65	371050	2	Washer (TT46113/TT46113C Only)
66	15630	2	Capscrew (TT46113/TT46113C Only)
	0.4505		
	04595	1	SEAL KIT

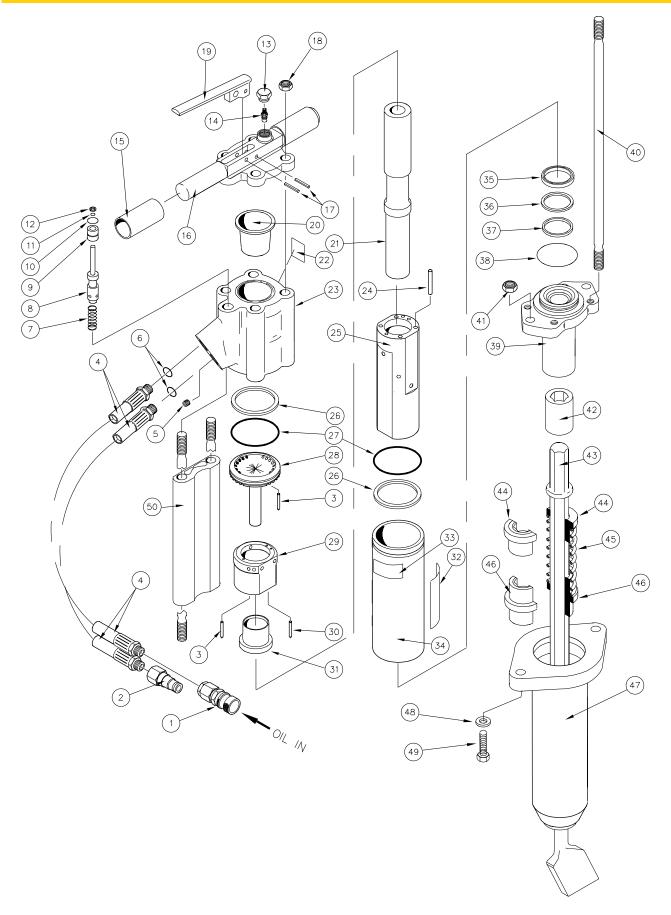
Lower Body Assy Part No., 33037. Includes Items 49-50.

Tie Tamper Update Kit: Part No. 33038. Includes Items 42-43, 46-47, 49-55

Coupler Sets: Aeroquip 47438 / Parker 03971



# **TT46112 PARTS ILLUSTRATION**





# TT46112 PARTS LIST

Item	Part No.	Otre	Description
nem	03972	Qty	Description
1	47436	1	Female Coupler (Parker) Female Coupler (Aeroquip)
	03973		Male Coupler (Parker)
2	47437	1	Male Coupler (Aeroquip)
3	02900	2	Roll Pin
4	56725	2	Hose Assy (Parker)
4	66727	2	Hose Assy (Aeroquip)
5	12832	1	Orifice Plug
6	01605	2	O-Ring (Incl with Item 4)
7	04058	1	Spring
8	04077	1	Valve Spool
9	04057	1	Bushing
10	00293	1	O-Ring
11	01362	1	O-Ring
12	04056	1	Rod Wiper
13	07493	1	Plug
14	20499	1	Charge Valve
15	02494	2	Handle Grip
16	07483	1	Handle
17	07492	2	Spirol Pin
18	04374	4	Locknut
19	04371	1	Trigger
20	07479	1	Accumulator Diaphragm
21	12833	1	Piston
22	07589	1	GPM Sticker
23	11588	1	Accumulator Valve Block
24	04605	4	Push Pin
25	07485	1	Flow Sleeve
26	04381	2	Backup Ring
27	04379	2	O-Ring
28	04378	1	Porting Block
29	07480	1	Automatic Valve Body
30	04571	2	Push Pin
31	04382	1	Automatic Valve
32	23230	1	Name Tag
33	25610	1	Railroad Help Desk Sticker
34	04383	1	Flow Sleeve Tube
35	04386	1	Cup Seal
36	04780	1	Washer
37	04387	1	Rod Wiper
38	02022	1	O-Ring
39	23147 33037	1	Lower Body Lower Body Assy (Incl Item 42)
40	04373	4	Side Rod
41	371500	2	ESNA Nut
42	15400	1	Hex Bushing
43	44937 44979	1	Tie Tamper Steel (TT46112 Only) Tie Tamper Steel (TT4611204 Only)

Item	Part No.	Qty	Description
44	21028	1	Bit Retaining Top Spring Guide (Pair)
45	21029	1	Compression Coil Spring
46	15411	1	Bit Retaining Top Spring Guide (Pair)
47	22890	1	Bit Keeper Weldment
48	371050	2	Washer
49	15630	2	Caspscrew
50	59959	1	Filler
	04595	1	SEAL KIT

# STANLEY.

# **STANLEY**<sub>®</sub>

Stanley Hydraulic Tools 3810 SE Naef Road Milwaukie, Oregon 97267-5698 USA (503) 659-5660 / Fax (503) 652-1780 www.stanleyhydraulics.com