STANLEY

CH15 HYDRAULIC CHIPPING HAMMER



USER MANUAL Safety, Operation and Maintenance









DECLARATION OF CONFORMITY

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



I, th	ie undersigned:	Waisha	ck, Andy
Ich, der Unterzeichnende: Je soussigné:		Weisber	ck, Alluy
El a	abajo firmante: ottoscritto:	Surname and First na	ames/Familiennname und Vornamen/Nom et prénom/Nombre y apellido/Cognome e nome
bes déc Por	eby declare that the equip stätige hiermit, daß erklare slare que l'équipement vis r la presente declaro que e hiaro che le apparecchiat	en Produkt genannten \ sé ci-dessous: el equipo se especifica	Werk oder Gerät: a continuación:
1.	Category: Kategorie: Catégorie: Categoria: Categoria:	(Chipping Hammer, Hydraulic
2.	Make/Marke/Marque/Mar	rca/Marca Stanley	
3.	Type/Typ/Type/Tipo/Tipo:	c	CH1513101, CH1513101D, CH1533101, CH1553101
4.	Serial number of equipme Seriennummer des Gerät Numéro de série de l'équi Numero de serie del equi Matricola dell'attrezzatura	ts: lipement: ipo:	AII
5.	Mass/Masse/Masse/Masa	a/Massa 8 kg	
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Ri Di Di	chtlinie/Standards rectives/Normes rectriz/Los Normas	No. Nr Numéro No n.	Approved body Prüfung durch Organisme agréé Aprobado Collaudato
EN	Dise Directive 2	11148-4:2010 2000/14/EC:2005 3744:2010 2006/42/EC:2006	Self AkustikNet (Notified body ID 1585) Bagsvard Hovedgade 141, 2880 Bagsvard, Denmark Certificate #863/2011/006 Self

8. 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

Messungen

Mediciones

Misurazioni

Mesures

7. Measurements: Measured Sound Power Level 104 LwA

Guaranteed Sound Power Level 105 LwA

Measured in accordance to Directive 2000/14/EC

Done at/Ort/Fait à/Dado en/Fatto a Stanley Hydraulic Tools, Milwaukie, Oregon USA Date/Datum/le/Fecha/Data 7-21-11

Signature/Unterschrift/Signature/Firma/Firma

Special Provisions: I Spezielle Bestimmungen:

Dispositions particulières:

Provisiones especiales:

Disposizioni speciali:

Position/Position/Fonction/Cargo/Posizione <u>Director of Product Development</u>



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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.



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.

SAFE 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> <u>to the equipment</u>.

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

IMPORTANT

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 in this manual.

The CH15 Hydraulic Chipping Hammer 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 hoses before operation. Failure to do so could result in personal injury or equipment damage.







- Operator must start in a work area without bystanders. The operator must be familiar with all prohibited work areas such as excessive slopes and dangerous terrain conditions.
- 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.
- Always wear safety equipment such as goggles, gloves, ear, head, and breathing protection, and safety shoes at all times when operating the tool.
- Do not inspect, carry, clean or change the tool bit while the hydraulic power source is connected. Accidental engagement of the tool can cause serious injury.

- Supply hoses must have a minimum working pressure rating of 2500 psi/175 bar. Do not exceed rated working pressure of hydraulic hose used with this tool. Excess pressure may cause a leak or burst.
- Be sure all hose connections are tight.
- The hydraulic circuit control valve must be in the "OFF" position when coupling or uncoupling the tool. Wipe all couplers clean before connecting. Use only lint-free cloths. Failure to do so may result in damage to the quick couplers and cause overheating of the hydraulic system.
- Do not operate the tool at oil temperatures above 140 °F/60 °C. Operation at higher oil temperatures can cause operator discomfort and may damage the tool. Never come in contact with the tool bit, the bit can get hot.
- Do not operate a damaged, improperly adjusted, or incompletely assembled tool.
- Do not weld, cut with an acetylene torch, or hardface the tool bit.
- 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 exceed the rated limits of the tool or use the tool for applications beyond its design capacity.
- 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.

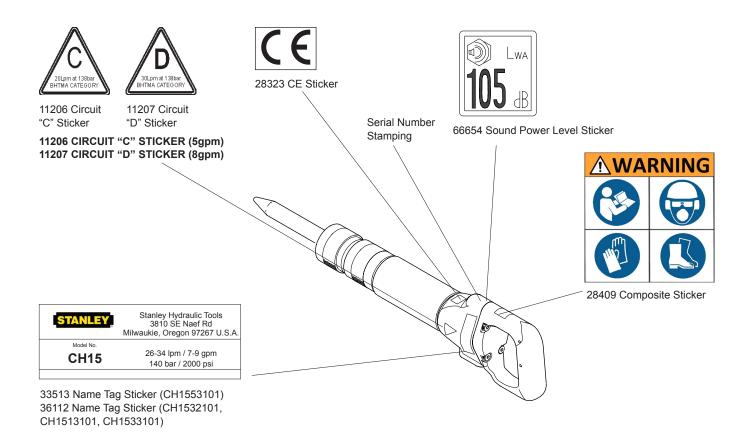
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SAFETY PRECAUTIONS

- Always keep critical tool markings, such as labels and warning stickers legible.
- Always replace parts with replacement parts recommended by Stanley Hydraulic Tools.
- Check fastener tightness often and before each use daily.
- Never operate the tool if you cannot be sure that underground utilities are not present.
- Do not wear loose fitting clothing when operating the tool.
- Warning: Hydraulic fluid under pressure could cause skin injection injury. If you are injured by hydraulic fluid, get medical attention immediately.
- Keep all body parts away from the working tool.
- When handling material or the tool bit, wear your (PPE) Personal Protection Equipment.
- Be observant of the hydraulic hoses lying about the work area, they can be a tripping hazard.
- Always de-energize the hydraulic system when changing a tool bit.
- Take caution when changing a tool bit, tool bits can get very hot.
- Never use the tool in an explosive atmosphere, sparks from the breaking process could ignite explosive gas.
- Use proper lifting techniques when handling the tool, get help from a co-worker and do not over-reach.

- Use proper protection from falling or flying debris, keep bystanders at a safe distance.
- Do not exceed the rated flow and pressure. See Specifications in this manual for correct flow rate and pressure rating. Rapid failure of the internal seals may result.
- Failure to use hydraulic hose labeled and certified as non-conductive when using hydraulic tools on or near electric lines may result in death or serious injury.
- Handle and route hose carefully to avoid kinking, abrasions, cutting, or contact with high temperature surfaces. Do not use hose to pull or lift tools, power units, etc.
- Check entire hose for cuts, cracks, leaks, abrasions, bulges, or damage to couplings if any of these conditions exist, replace the hose immediately. Never use tape or any device to attempt to mend the hose.
- Do not use conductive hose on or near electric lines.
 This hose is not labeled or certified as non-conductive. Using this hose on or near electrical lines may result in death or serious injury.

TOOL STICKERS & TAGS



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.

FAILURE TO USE HYDRAULIC HOSE LABELED AND CERTIFIED AS MON-CONDUCTIVE WHEN USING HYDRAULIC TOOLS ON OR NEAR ELECTRICAL LINES MAY RESULT IN DEATH OF SERIOUS INJURY. BEFORE USING HOSE ELECTRICAL LINES MAY RESULT IN DEATH OF SERIOUS INJURY. BEFORE USING HOSE LEED AND CERTIFIED AS NON-CONDUCTIVE OF SERIOUS FOR THE CONDUCTIVE OF SERIOUS FOR THE CONDUCTIVE OF SERIOUS OF SERIOUS OF SERIOUS FOR THE CONDUCTIVE OF SERIOUS OF SERIOUS FOR THE SERIOUS SERIOUS FOR THE SERIOUS OF SERIOUS FOR THE SERIOUS OF SE

DANGER

IMPORTANT

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

DANGER

- D. DO NOT LIFT OR CARRY TOOL BY THE HOSES. DO NOT ABUSE HOSE. DO NOT USE KINKED, TORN OR DAMAGED HOSE.
- DAMAGED HOSE.

 3. MAKE SURE HYDRAULIC HOSES ARE PROPERLY CONNECTED TO THE TOOL BEFORE PRESSURING SYSTEM.
 STATEMENT OF THE TOOL BEFORE PRESSURING SYSTEM.
 STATEMENT OF THE TOOL SYSTEM RETURE HOSE.
 MUST ALLWAYS BE CONNECTED TO TOOL TOUT PORT.
 REVERSING CONNECTIONS MAY CAUSE REVERSE
 TOOL OPERATION WHICH CAN RESULT IN SEVERE
 PERSONAL INJURY.

 DO NOT CONNECT DEPOLATED TOOL OF THE
- DO NOT CONNECT OPEN-CENTER TOOLS TO CLOSED-CENTER HYDRAULIC SYSTEMS. THIS MAY RESULT IN LOSS OF OTHER HYDRAULIC FUNCTIONS POWERED BY THE SAME SYSTEMAND/OR SEVERE PERSONAL INJURY.
- 5. BYSTANDERS MAY BE INJURED IN YOUR WORK AREA. KEEP BYSTANDERS CLEAR OF YOUR WORK AREA.
- WEAR HEARING, EYE, FOOT, HAND AND HEAD PRO-TECTION.
- TO AVOID PERSONAL INJURY OR EQUIPMENT DAMAGE, ALL TOOL REPAIR MAINTENANCE AND SERVICE MUST ONLY BE PERFORMED BY AUTHORIZED AND PROPERLY TRAINED PERSONNEL.

IMPORTANT

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 non-conductive** 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)



HOSE RECOMMENDATIONS

Fool to Hydraulic Circuit Hose Recommendations

minimum hose diameters for various hose ions are intended to keep return line pressure The chart to the right shows recommended engths based on gallons per minute (gpm)/ iters per minute (lpm). These recommenda-(back pressure) to a minimum acceptable level to ensure maximum tool performance. This chart is intended to be used for hydraulic draulic Tools tool operating requirements and All hydraulic hose must have at least a rated minimum working pressure equal to the maxitool applications only based on Stanley Hyshould not be used for any other applications. mum hydraulic system relief valve setting.

All hydraulic hose must meet or exceed specifications as set forth by SAE J517.

GPM LPM FEET METERS INCH MM (PressRedum) PSI Certified Non-Conductive Hose - Files Raid - Files 16-34 up to 10 up to 13 3/8 10 Both 2250 4-6 15-34 up to 10 up to 7.5 3/8 10 Both 2500 4-6 15-23 up to 25 up to 7.5 3/8 10 Both 2500 5-10.5 19-40 up to 50 up to 15 1/2 13 Both 2500 5-10.5 19-40 up to 50 up to 15 5/8 16 Pressure 2500 5-10.5 19-40 up to 50 up to 15 5/8 16 Pressure 2500 10-13 38-49 up to 50 up to 15 5/8 16 Pressure 2500 10-13 38-49 100-200 3/4 19 Return 2500 10-13 38-49 100-200 3/4 19 Return 2500 <t< th=""><th>Oil</th><th>Oil Flow</th><th>Hose L</th><th>Hose Lengths</th><th>Inside Diameter</th><th>iameter</th><th>USE</th><th>Min. Workin</th><th>Min. Working Pressure</th></t<>	Oil	Oil Flow	Hose L	Hose Lengths	Inside Diameter	iameter	USE	Min. Workin	Min. Working Pressure
	GPM	LPM	FEET	METERS	INCH	MM	(Press/Return)	PSI	BAR
			Certified No	on-Conductive	Hose - Fiber	r Braid - for	Utility Bucket	Frucks	
	4-9	15-34	up to 10	up to 3	3/8	10	Both	2250	155
15-23 up to 25 up to 7.5 3/8 10 Both 15-23 26-100 7.5-30 1/2 13 Both 19-40 up to 50 up to 15 5/8 16 Both 19-40 51-100 15-30 5/8 16 Both 38-49 up to 50 up to 15 5/8 16 Both 38-49 up to 50 up to 15 5/8 16 Pressure 38-49 100-200 30-60 1 25.4 Return 49-60 up to 25 up to 8 3/4 19 Return 49-60 up to 25 up to 8 3/4 19 Return 49-60 up to 25 up to 8 3/4 19 Return 49-60 up to 8 3/4 19 Return		Conducti	ve Hose - Wire	Braid or Fiber	Braid -DO N	JOT USE NE	AR ELECTRIC	AL CONDUCT	ORS
15-23 26-100 7.5-30 1/2 13 Both 19-40 up to 50 up to 15 1/2 13 Both 19-40 51-100 15-30 5/8 16 Both 19-40 100-300 30-90 3/4 19 Return 38-49 up to 50 up to 15 5/8 16 Pressure 38-49 100-200 30-60 1 25.4 Return 49-60 up to 25 up to 8 3/4 19 Return 49-60 up to 25 up to 8 3/4 19 Return 49-60 up to 25 up to 8 3/4 19 Return	4-6	15-23	up to 25	up to 7.5	3/8	10	Both	2500	175
19-40 up to 50 up to 15 1/2 13 Both 19-40 51-100 15-30 5/8 16 Both 19-40 100-300 30-90 3/4 19 Return 38-49 up to 50 up to 15 5/8 16 Pressure 38-49 100-200 30-60 3/4 19 Return 49-60 up to 25 up to 8 3/4 19 Return 49-60 up to 25 up to 8 3/4 19 Return 49-60 up to 25 up to 8 3/4 19 Return 49-60 26-100 8-30 1 25.4 Return	4-6	15-23	26-100	7.5-30	1/2	13	Both	2500	175
19-40 51-100 15-30 5/8 16 Both 19-40 100-300 30-90 3/4 19 Return 38-49 up to 50 up to 15 5/8 16 Both 38-49 51-100 15-30 5/8 16 Pressure 38-49 100-200 30-60 1 25.4 Return 49-60 up to 25 up to 8 3/4 19 Pressure 49-60 up to 25 up to 8 3/4 19 Pressure 49-60 up to 25 up to 8 3/4 19 Pressure	5-10.5	19-40	up to 50	up to 15	1/2	13	Both	2500	175
19-40 100-300 30-90 5/8 16 Pressure 38-49 up to 50 up to 15 5/8 16 Return 38-49 51-100 15-30 3/4 19 Return 38-49 100-200 30-60 1 25.4 Return 49-60 up to 25 up to 8 3/4 19 Return 49-60 26-100 8-30 1 25.4 Return 49-60 26-100 8-30 1 25.4 Return	5-10.5	19-40	51-100	15-30	2/8	16	Both	2500	175
19-40 IOU-30U 30-90 3/4 19 Return 38-49 up to 50 up to 15 5/8 16 Both 38-49 51-100 15-30 5/8 16 Pressure 38-49 100-200 30-60 1 25.4 Return 49-60 up to 25 up to 8 3/4 19 Pressure 49-60 26-100 8-30 1 25.4 Return	7 0	2	000	00	2/8	16	Pressure	2500	175
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38-49 51-100 15-30 5/8 16 Pressure 38-49 100-200 30-60 1 25.4 Return 49-60 up to 25 up to 8 3/4 19 Return 49-60 up to 25 3/4 19 Return 49-60 26-100 8-30 1 25.4 Return	10-13	38-49	up to 50	up to 15	2/8	16	Both	2500	175
38-49 100-200 30-60 3/4 19 Return 49-60 up to 25 up to 8 3/4 19 Pressure 49-60 up to 25 up to 8 3/4 19 Pressure 49-60 26-100 8-30 1 25.4 Return	2	00	77	76	2/8	16	Pressure	2500	175
38-49 100-200 30-60 1 25.4 Return 49-60 up to 25 up to 8 5/8 16 Pressure 49-60 26-100 8-30 1 19 Pressure 1 25.4 Return 1	2-0	94-00	001-10	00-01	3/4	19	Return	2500	175
49-60 up to 25 up to 25 1 25.4 Return 49-60 up to 25 up to 8 3/4 19 Return 49-60 26-100 8-30 1 25.4 Return	2,	00	000	09 06	3/4	19	Pressure	2500	175
49-60 up to 25 up to 8 5/8 16 Pressure 3/4 19 Return 7 19 Pressure 49-60 26-100 8-30 1 25.4 Return	2-0	90-49	002-001	20-00	1	25.4	Return	2500	175
49-60 26-100 8-30 10 0 3/4 19 Return 3/4 19 Pressure 1 25.4 Return	2.00	09.04	20 of all	0 0	2/8	16	Pressure	2500	175
49-60 26-100 8-30 3/4 19 Pressure 1 25.4 Return	0 -5	48-00	cz 01 dn	o 01 dn	3/4	19	Return	2500	175
49-00 20-100 0-50 1 25.4 Return	2,	0	007	c	3/4	19	Pressure	2500	175
	0 -0	48-00	001-07	00	-	25.4	Return	2500	175

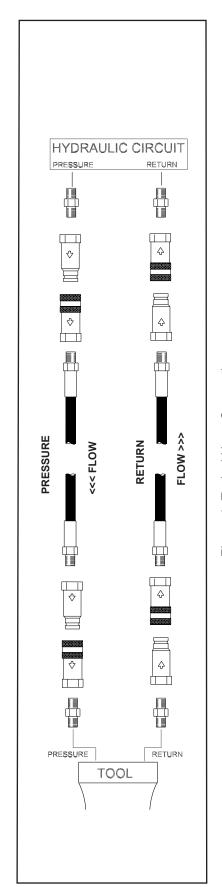


Figure 1. Typical Hose Connections

HTMA / EHTMA REQUIREMENTS

HTMA / EHTMA REQUIREMENTS

HTMA		TOOL TY	/PE	
HYDRAULIC SYSTEM REQUIREMENTS	TYPE I	TYPE II	TYPE RR	TYPE III
Flow Range	4-6 gpm	7-9 gpm	9-10.5 gpm	11-13 gpm
	(15-23 lpm)	(26-34 lpm)	(34-40 lpm)	(42-49 lpm)
Nominal Operating Pressure (at the power supply outlet)	1500 psi	1500 psi	1500 psi	1500 psi
	(103 bar)	(103 bar)	(103 bar)	(103 bar)
System relief valve setting (at the power supply outlet)	2100-2250 psi	2100-2250 psi	2200-2300 psi	2100-2250 psi
	(145-155 bar)	(145-155 bar)	(152-159 bar)	(145-155 bar)
Maximum back pressure (at tool end of the return hose)	250 psi	250 psi	250 psi	250 psi
	(17 bar)	(17 bar)	(17 bar)	(17 bar)
Measured at a max. fluid viscosity of: (at min. operating temperature)	400 ssu*	400 ssu*	400 ssu*	400 ssu*
	(82 centistokes)	(82 centistokes)	(82 centistokes)	(82 centistokes
Temperature: Sufficient heat rejection capacity to limit max. fluid temperature to: (at max. expected ambient temperature)	140° F	140° F	140° F	140° F
	(60° C)	(60° C)	(60° C)	(60° C)
Min. cooling capacity at a temperature difference of between ambient and fluid temps NOTE: Do not operate the tool at oil temperatures above 140° F discomfort at the tool.	3 hp	5 hp	6 hp	7 hp
	(2.24 kW)	(3.73 kW)	(5.22 kW)	(4.47 kW)
	40° F	40° F	40° F	40° F
	(22° C)	(22° C)	(22° C)	(22° C)
	F (60° C). Operation at	t higher temperatu	res can cause ope	erator
Filter Min. full-flow filtration Sized for flow of at least: (For cold temp. startup and max. dirt-holding capacity)	25 microns	25 microns	25 microns	25 microns
	30 gpm	30 gpm	30 gpm	30 gpm
	(114 lpm)	(114 lpm)	(114 lpm)	(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 tempera				

When choosing hydraulic fluid, the expected oil temperature extremes that will be experienced in service determine the most suitable temperature viscosity characteristics. Hydraulic fluids with a viscosity index over 140 will meet the requirements over a wide range of operating temperatures.

*SSU = Saybolt Seconds Universal

CLASSIFICATION EHTMA HYDRAULIC SYSTEM REQUIREMENTS 11.8-14.5 gpm Flow Range 3.5-4.3 gpm 4.7-5.8 gpm 7.1-8.7 gpm 9.5-11.6 gpm (45-55 lpm) (13.5-16.5 lpm) (18-22 lpm) (27-33 lpm) (36-44 lpm) 1500 psi 1500 psi 1500 psi 1500 psi Nominal Operating Pressure 1870 psi (at the power supply outlet) (129 bar) (103 bar) (103 bar) (103 bar) (103 bar) System relief valve setting 2495 psi 2000 psi 2000 psi 2000 psi 2000 psi (at the power supply outlet) (138 bar) (172 bar) (138 bar) (138 bar) (138 bar)

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

OPERATION

PREOPERATION PROCEDURES PREPARATION FOR INITIAL USE

The tool, as shipped, has no special unpacking or assembly requirements prior to usage. Inspection to assure the tool was not damaged in shipping and does not contain packing debris is all that is required.

CHECK HYDRAULIC POWER SOURCE

- 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 for the 8 gpm models and 4–6 gpm at 1000– 2000 psi/70–140 bar for the 5 gpm models.
- Make certain the hydraulic power source is equipped with a relief valve set to open at 2100–2250 psi/145– 155 bar minimum.
- 3. Check that the hydraulic circuit matches the tool for open-center (OC) operation.

CHECK TOOL

- Make sure all tool accessories are correctly installed. Failure to install tool accessories properly can result in damage to the tool or personal injury.
- 2. There should be no signs of leaks.
- 3. The tool should be clean, with all fittings and fasteners tight.

CHECK TRIGGER MECHANISM

1. Check that the trigger operates smoothly and is free to travel between the "ON" and "OFF" positions.

INSTALL TOOL BIT

- 1. Remove the solid retainer.
 - a. Grasp the loop of the retainer spring and pull it from the retainer.
 - b. Slip the solid retainer off the chuck end.
- Insert the tool bit into the solid retainer. The hex shank must be toward the chuck end. Align the oval collar with the oval slot in the chuck end of the solid retainer.
- Insert the tool hex shank into the chuck end to engage the hex liner. Index the shank in the hex liner to get the desired bit orientation to the chipper.
- 4. Slide the solid retainer on the chuck end, aligning the retainer spring slot with the groove.
- Install the retainer spring.
- 6. Connect the hoses to the tool and the hydraulic power source.

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.

OPERATING PROCEDURES

- 1. Observe all safety precautions.
- Move the hydraulic circuit control valve to the "ON" position.
- 3. Place the tool bit firmly on the surface to be broken.
- 4. Squeeze the trigger to start the chipping hammer. Adequate down pressure is very important.

NOTE:

Partially depressing the trigger allows the tool to operate at a slow speed, making it easy to start the tool bit into the surface to be broken.

COLD WEATHER OPERATION

If the tool is to be used during cold weather, preheat the hydraulic fluid at low engine speed. When using the normally recommended fluids, fluid temperature should be at or above 50 °F/10 °C (400 ssu/82 centistokes) before use.

STORAGE

- 1. Disconnect the tool from the hydraulic power source.
- Remove the tool bit and spray the chuck area with WD-40™ inside and out.
- 3. Wipe clean and store in a clean, dry place.

UNDERWATER MODEL PREVENTATIVE MAINTENANCE

After each use, the movable portions of the tool that were exposed to water should be flushed with a water displacing oil such as WD40. Remove any remaining water and debris as follows:

- Turn the tool upside down (without the tool bit) and spray oil throughout the inside of the chuck and retainer including down inside the retainer spring, also spray any of the exposed piston area to displace any remaining water.
- 2. Spray oil into the On/Off valve trigger slot area.
- 3. Dip or spray the entire tool.
- 4. Cycle the tool hydraulically several times before storing away.

TOOL PROTECTION & CARE

NOTICE

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 and pressure. Refer to Specifications in this manual for correct flow & pressure rate. Rapid failure of the internal seals may result.

- Always keep critical tool markings, such as warning stickers and tags legible.
- Do not force a small tool to do the job of a large tool.
- Keep tool bit sharp for maximum breaker performance. Make sure that tool bits are not chipped or rounded on the striking end.
- Never operate a chipper without a tool bit or without holding it against the work surface. This puts excessive strain on the retainer.
- 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 tool, always make sure the hydraulic power source is supplying the correct hydraulic flow and pressure as listed in the table. Use a flowmeter known to be accurate. Check the flow with the hydraulic fluid temperature at least 80 °F/27 °C.

PROBLEM	CAUSE	SOLUTION
Tool does not run.	Power unit not functioning.	Check power unit for proper flow and pressure 7–9 gpm/26–34 lpm, 2000 psi/140 bar for 8 gpm model.
		Check power unit for proper flow and pressure 4–6 gpm/15–23 lpm, 2000 psi/140 bar for 5 gpm model.
	Couplers or hoses blocked.	Remove restriction.
	Pressure and return line hoses reversed at ports.	Be sure hoses are connected to their proper ports.
	Mechanical failure of piston or shuttle valve.	Have inspected and repaired by authorized dealer.
Tool does not hit effectively.	Power unit not functioning.	Check power unit for proper flow and pressure 7–9 gpm/26–34 lpm, 2000 psi/140 bar for 8 gpm model.
		Check power unit for proper flow and pressure 4–6 gpm/15–23 lpm, 2000 psi/140 bar for 5 gpm model.
	Couplers or hose blocked.	Remove restriction.
	Fluid too hot	Provide cooler to maintain proper fluid temperature. (Above 140 °F / 60 °C).
	Incorrect tool bit .	Ensure tool bit meets specifications.
Tool operates slow.	Low oil flow from power unit.	Check power source for proper flow.
	High backpressure.	Check hydraulic system for excessive backpressure and correct as required.

SPECIFICATIONS

Oil Flow Range	
CH1553101, 5-GPM Model	4-6 gpm/15-23 lpm
CH1513101, CH1533101, 8-GPM Model	7-9 gpm/26-34 lpm
Pressure Range	1000-2000 psi/69-140 Bar
Nominal Flow	5 gpm/19 lpm or 8 gpm/30 lpm Depending on model
Length	
Weight	
Tool Bit Models CH1513101, CH1533101, CH1553101	
Porting	8 SAE O-ring
Couplers	HTMA/EHTMA Flush Face Type Male & Female
Connect Size and Type	
Hose Whips	Yes
Maximum Back Pressure	250 psi/17 bar
Maximum Fluid Temperature	140 °F/60 °C
•	
HTMA/EHTMA Category	Type 1 and 2
Nominal Pressure	
Max Pressure	
Max Relief Pressure	
IVIAX INCIICI FICSSUIC	2130 psi/140 bai

CH15 SOUND AND VIBRATION DECLARATION:

Test conducted on CH15,operated at 30 LPM input

Measured A-weighted sound power level, Lwa (ref. 1pW) in decibels

Uncertainty, Kwa, in decibels

Guaranteed sound power level

Measured A-weighted sound pressure level, Lpa (ref. 20 µPa) at operator's position, in decibels

Uncertainty, Kpa, in decibels

Uncertainty, Kpa, in decibels

Values determined according to noise test code given in ISO 15744, using the basic standard

ISO3744. Test conducted by independent notified body to comply with 2000/14/EC:2005 requirements.

NOTE- The sum of a measured noise emission value and its associated uncertainty represents an upper boundary of the range of values which is likely to occur in measurements.

Declared vibration emission value in accordance with EN 12096

Measured vibration emission value: 3-Axis (8-gpm Model)

Uncertainty: K

Measured vibration emission value: 3-Axis (5-gpm Model)

Uncertainty: K

4.4 m/sec²

28 m/sec²

Uncertainty: K

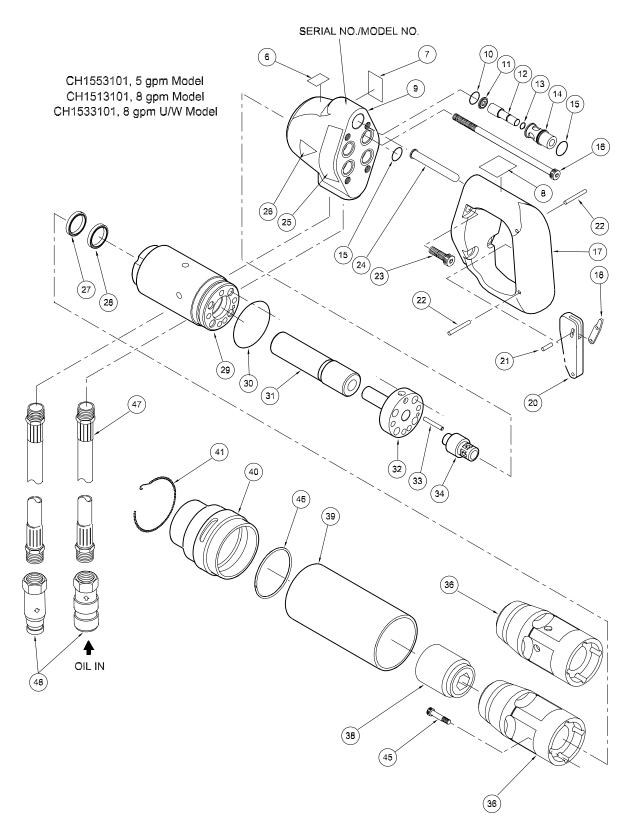
Values determined according to ISO 8662-5, ISO 5349-1,2 (ISO 28927-10:2011)

ACCESSORIES

Description	Part No.
Parker Bruning Flush Face Coupler Set, 3/8 NPT	
Hose, 50 ft. \times 1/2 in. ID, wire braid, dual, with couplers	
Seal Kit	35979
Point, 9 in., Oval, .580 Hex	

PARTS ILLUSTRATION

CH15 PARTS ILLUSTRATION: CH1553101 / CH1513101 / CH1533101



CH15 PARTS LIST

ITEM	P/N	QTY	DESCRIPTION	
1	_	_	NO ITEM	
2	<u> </u>	_	NO ITEM	
3	<u> </u>	_	NO ITEM	
4	<u> </u>	<u> </u>	NO ITEM	
5	07492	1	SPIROL PIN	
6	28323	1	CE STICKER	
7	66654	1	SOUND PWR LEVEL STICKER	
8	28409	1	COMPOSITE STICKER	
9	73310	1	BODY	
10	00016	1	O-RING 2-015 R16*	
11	33268	1	INSERT	
12	31583	1	VALVE SPOOL	
13	31650	1	O-RING, .176 × .040, 5 -193*	
14	31597	1	VALVE SLEEVE	
15	01211	5	O-RING 2-016 R16*	
16	24871	4	CAPSCREW 5/16-18UNC × 3	
17	62209	1	HANDLE	
18	62197	1	TRIGGER ROD	
19	-		NO ITEM	
20	62198	1	TRIGGER	
21	00878	1	DOWEL PIN, 3/16 × 1/2 SS	
22	31602	1	SPIROL PIN 5/32 × 1.2	
23	13815	4	CAPSCREW 5/16-18UNC × 1	
24	31582	1	TRIGGER PIN	
25	33513	1	NAME TAG (CH1553101)	
	36112	1	NAME TAG (CH1513101, CH1533101)	
26	11206	1	CIRCUIT "C" DECAL (CH1553101)	
	11207	1	CIRCUIT "D" DECAL (CH1513101, CH1533101)	
27	31607	1	SCRAPER*	
28	31606	1	CUP SEAL*	
29	36111	1	CYLINDER (CH1513101, CH1533101)	
	35961	1	CYLINDER (CH153101)	
30	07572	1	O-RING 2-135 R16*	
31	33520	1	PISTON (CH1513101, CH1533101)	
	31590	1	PISTON (CH1553101)	
32	33521	1	TUBE (CH1513101, CH1533101)	
	35547	1	TUBE (CH1553101)	

ITEM	P/N	QTY	DESCRIPTION
33	35546	1	DOWEL PIN, 5/32 × 1.500
34	31592	1	SHUTTLE VALVE
35	_	_	NO ITEM
36	65835	1	CHUCK END (CH1513101, CH1553101)
	66258	1	CHUCK END (CH1533101 U/W ONLY)
37	_	_	NO ITEM
38	03210	1	RETAINING NOSE LINER
39	33294	1	FOAM GRIP
40	65836	1	SOLID RETAINER
41	65837	1	RETAINER SPRING
42	_	_	NO ITEM
43	_	_	NO ITEM
44	_	_	NO ITEM
45	35976	4	CAPSCREW 1/4 × 1.500
46	38597	1	RETAINING RING – U/W MODEL ONLY
47	01412	2	PIGTAIL HOSE ASSY 12
48	03971	1	FLUSH FACE COUPLER SET

MODE	L DESIGNATIONS
CH1553101	5 GPM MODEL
CH1513101	8 GPM MODEL
CH1533101	8 GPM MODEL, UNDERWATER
SEAL KIT	35979

^{*} DENOTES PART NUMBER IN SEAL KIT

UNDERWATER TOOLS DEPTH GUIDELINE

UNDERWATER MODELS ONLY

A CAUTION

DO NOT USE HYDRAULIC TOOLS UNDER-WATER THAT ARE NOT DESIGNATED AS AN "UNDERWATER" MODEL, OR THIS WILL RESULT IN DAMAGE TO THE TOOL.

For underwater hydraulic tools the applications are broken down into four quadrants depending on type of tool and method of operation.

The types of tools are percussive and rotational, each with different characteristics allowing for different depth operation. With percussive tools, the nitrogen accumulator PSI must counter the increase in ambient pressure found at lower depths. Since there is a maximum PSI for percussive tools they are limited to certain depths. Rotational tools do not have accumulators and thus capable of deeper depths.

The methods are broken into diver operated or remote operated vehicle (ROV). ROV's can reach lower depths and with an on-board hydraulic power source that is depth compensated, can operate hydraulic tools at depths of thousands of feet. ROV operation is still limited to the tool, for example a percussive tool has the same depth limitation whether ROV or diver operated.



Operation Overview

	Percussive	Rotational
Diver	Tools: Breakers, Hammer Drills and Chipping Hammers Max Depth: 500' - limitations due to accumulator PSI max (increase 40 PSI for every 100')	Tools: Grinders, Saws, Chain Saws Max Depth: 1000' - Reference hose sizing guide below
ROV	Tools: Breakers, Hammer Drills and Chipping Hammers Max Depth: 500' - Iimitations due to accumulator PSI max (increase 40 PSI for every 100')	Tools: Grinders, Saws, Chain Saws Max Depth: 1000' - Reference hose sizing guide below

Recommended Hose Diameters

Depth (ft)	8 GPM	12 GPM
100	5/8"	5/8"
300	3/4"	1"
600	1"	1"
1000	1"	1-1/4"



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