STANLEY

RS25 HYDRAULIC RAIL SAW



USER MANUAL Safety, Operation and Maintenance









DECLARATION OF CONFORMITY

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

STANLEY.

I, the undersigned:
Ich, der Unterzeichnende
,
Je soussigné:
El abajo firmante:
lo sottoscritto:

Vervier, Patrick

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:	Rail Saw, Hydraulio
	1/-4	

Kategorie: Catégorie: Categoria: Categoria:

2. Make/Marke/Marque/Marca/Marca STANLEY

3. Type/Typ/Type/Tipo/Tipo: RS25103

 Serial number of equipment: Seriennummer des Geräts: Numéro de série de l'équipement: Numero de serie del equipo: Matricola dell'attrezzatura:

All

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
EN ISO	28927-8:2009/A2 :2019	Self
EN ISO	3744:2010	Self
EN ISO	13732-1:2008	Self
Machinery Directive	2006/42/EC:2006	Self

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

Disposizioni speciali:

6. Representative in the Union: Patrick Vervier, STANLEY Dubuis 17-19, rue Jules Berthonneau- CS 73406 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 STANLEY, Milwaukie, Oregon USA ______Date/Datum/le/Fecha/Data 12/08/2022

Signature/Unterschrift/Signature/Firma/Firma

DECLARATION OF CONFORMITY

STANLEY. UK CA

I, the undersigned: Vervier, Patrick							
		Surname and First na	ames				
her	eby declare that the equip	oment specified hereun	der:				
1.	Category:		Rail Saw, Hydraulic				
2.	Make:		STANLEY				
3.	Туре:		RS25103				
4.	Serial number of equipme	nt:	All				
Has	Has been manufactured in conformity with						
Di	irective/Standards N	No.	Approved body				
E	N ISO 3	28927-8:2009/A2 :2019 3744:2010 3732-1:2008	Self Self Self				
(S	upply of Machinery Safety) Regulations	S.I. 2008/1597	Self				
5.	•	None					
6. Representative in the Union: Patrick Vervier, STANLEY Dubuis 17-19, rue Jules Berthonneau- CS 73406 41034 Blois CEDEX, France. Done at STANLEY, Milwaukie, Oregon USA Date 12/08/2022							
Sig	nature						
Pos	sition	Engineering Manager					

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IMPORTANT

To fill out a product warranty validation form, and for information on your warranty, visit www.stanleyinfrastructure.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 recommends that servicing of hydraulic tools, other than routine maintenance, must be performed by an authorized and certified dealer. Please read the following warning.

AWARNING

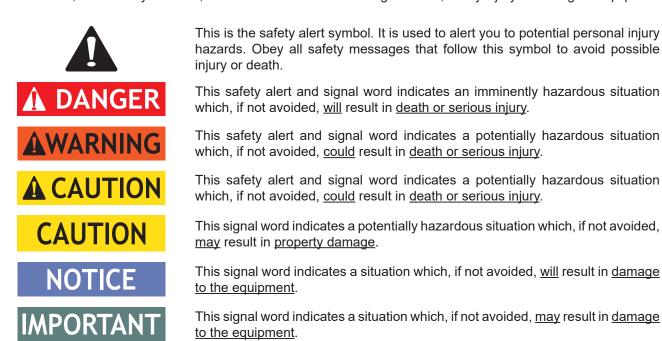
SERIOUS INJURY OR DEATH COULD RESULT FROM THE IMPROPER REPAIR OR SERVICE OF THIS TOOL.

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

For the nearest certified dealer, call STANLEY at (800) 972-2647 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.



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. maintenance personnel.	Keep these	instructions	in an area	a accessible	to the	operator	and

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 model RS25 Hydraulic Rail Saw 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, gloves, ear, head and breathing protection at all times when operating the tool.
- 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 the normal temperatures at the tool which can result in operator discomfort.
- Do not operate a damaged, improperly adjusted, or

- incompletely assembled tool.
- Never wear loose clothing that can get entangled in the working parts of the tool.
- Keep all parts of your body away from the rotating parts. Long hair or loose clothing can become drawn into rotating components.
- Always use accessories that conform to the specifications given in the OPERATION section of this manual.
- Do not operate the tool with the wheel guard removed.
- Release the trigger if the power supply has been interrupted.
- Keep the wheel off all surfaces when starting the rail saw.
- To avoid personal injury or equipment damage, all tool repair, maintenance and service must only be performed by authorized and properly trained personnel.
- Always hold the tool with both hands when the unit is running. Use a firm grip.
- Make sure the wheel has stopped before setting the tool down. Always carry the tool with the wheel stopped.
- Inspect the wheel guard and collars for damage after any wheel breakage.
- Do not operate the tool in the vicinity of flammable materials.
- Never exceed the maximum operating speed marked on the wheel.
- Do not attempt to adjust the flow control in the valve handle.
- Eye injury and cutting or severing of body parts is possible if proper procedures are not followed.

CUTTING WHEEL SAFETY

- Do not store or transport the saw with the wheel installed.
- Ensure that the cutting wheel is correctly mounted and tightened before use.
- Operate the Rail Saw at "no load" for 30 seconds in a safe position and ensure there is no vibration or other defects detected. If considerable vibration or other defects are detected, stop operation of the tool immediately and determine the cause. Do not use the tool until the defect is corrected.
- If the Rail Saw is dropped with a cutting wheel in-



SAFETY PRECAUTIONS

stalled, the cutting wheel should be examined thoroughly before use.

- Only use cutting wheels that comply with ANSI B7.5/ ISO 525, 603.
- Check that the maximum operating speed (rpm revolutions per minute) of the cutting wheel is equal to or greater than the rated shaft speed of the grinder. STANLEY recommends wheels rated at 4700 RPM for 16 inch models and 5300 RPM for 14 inch models.
- WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
 - Lead from lead-based paints,
 - crystalline silica from bricks and cement and other masonry products, and
 - arsenic and chromium from chemicallytreated lumber.

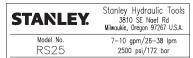
Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

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.

 Do not inspect hoses, fittings or any part of the tool for leaks by using bare hands. "Pin-hole" leaks can penetrate the skin and cause serious injury or death. If injured, seek emergency medical help immediately. Relieve hydraulic pressure before loosening fittings.



TOOL STICKERS & TAGS



74816 RS25 Name Tag

CAUTION

7-10 GPM / 26-34 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 CHOSED-CENTER SYSTEM. USE OPEN-CENTER CONNECT HOSES TO TOOL IN CONTRACT HOSES OF THE CONTRACT HOSES OF THE CONTRACT HOSES OF THE TOOL COULD RESULT IN A LEAK SURST OR OTHER TOOL FAILURE. CONTRACT AT A LEAK OR BURST CAN CLUSE OIL INJECTION INTO THE BODY FAILURE TO OBSERVE THESE PRECAUTIONS CAN RESULT IN SERIOUS PRESCHAL BURGT.

03787 GPM Sticker 7-9 2000 PSI

STANLEY RAILROAD HELP DESK 1-800-549-0517 FOR CUSTOMER SERVICE OR TECHNICAL QUESTIONS

73680 Railroad Help Desk Sticker

STANLEY (E / P) Spindle: 1 in/25.4mm Max RPM: 4700 RPM Weight: 34 lbs/15 kg Wheel Size: 16 in/41cm

74812 (16 in. Models) 74813 (14 in. Models) Information Plaque (CE models only)



88347 Composite Sticker



Sound Power Level Sticker



CAUTION

PROTECT YOUR EYES - WEAR SAFETY GOGGLES

- 1. Do not use damaged wheels
- 2. Use full throttle only while cutting
- 2. Use Jul Informed only write cump, 3. Use only wheels marked high speed reinforced that meet requirements of ANSI B7.5. Wheels should be no larger than 16" diameter x 5/31" thick with a 1" arbor hole and rated for 4700 rpm minimum speed.
 4. Inspect wheel guard & collars for damage after any wheel breakage on the machine.
 5. Maximum spindle speed is 4700 rpm.

05868

Abrasive Cut-Off Safety Label (14 inch models only - except CE)



CAUTION

PROTECT YOUR EYES...
WEAR SAFETY GOGGLES

- DO NOT USE DAMAGED WHEELS
- 1. DO NOT USE DAMAGED WHEELS.
 2. USE FULL TROTTLE ONLY WHILE CUTTING.
 3. USE ONLY WHEELS MARKED HIGH SPEED REINFORCED THAT MEET
 REQUIREMENTS OF ANSI B7. JB7.5 WHEELS SHOULD BE NO LARGER THAN
 16" DIA X 5/32" THICK WITH A 1" ARBOR HOLE & RATED FOR 4700 RPM MINIMUM SPEED
- A. INSPECT WHEEL GUARD & COLLARS FOR DAMAGE AFTER ANY WHEEL BREAKAGE ON THE MACHINE.
- . MAXIMUM SPINDLE SPEED IS 4700 RPM.
- 6. READ OPERATION MANUAL

Abrasive Cut-Off Safety Label (16 inch models only)



UKCA Sticker

Importé par: DUBUIS SAS 17-19, RUE JULES BERTHONNEAU BP 3406 - 41034 BLOIS - CEDEX France

88344 Importer Decal

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.

DANGER

FAILURE TO USE HYDRAULIC HOSE LABELED AND CER-TIFIED AS NON-CONDUCTIVE WHEN USING HYDRAULIC TOOLS ON OR NEAR ELECTRICAL LINES MAY RESULT IN DEATH OR SERIOUS INJURY.

DEATH OR SEKTIOUS INJURY.

BEFORE USING HOSE LABELED AND CERTIFIED AS NONCONDUCTIVE ON OR NEAR ELECTRIC LINES BE SURE THE
HOSE IS MAINTAINED AS NON-CONDUCTIVE THE HOSE
SHOULD BE REGULARLY TESTED FOR ELECTRIC CURRENT LEAKAGE IN ACCORDANCE WITH YOUR SAFETY
DEPARTMENT INSTRUCTIONS.

- A HYDRAULIC LEAK OR BURST MAY CAUSE OIL INJECTION INTO THE BODY OR CAUSE OTHER SEVERE PERSONAL INJURY.
 - DO NOT EXCEED SPECIFIED FLOW AND PRESSURE FOR THIS TOOL. EXCESS FLOW OR PRESSURE MAY CAUSE A LEAK OR BURST.
 - DO NOT EXCEED RATED WORKING PRESSURE OF HYDRAULIC HOSE USED WITH THIS TOOL. EXCESS PRESSURE MAY CAUSE A LEAK OR BURST.
 - CHECK TOOL HOSE COUPLERS AND CONNECTORS DAILY FOR LEAKS, **DO NOT** FEEL FOR LEAKS WITH YOUR HANDS. CONTACT WITH A LEAK MAY RESULT IN SEVERE PERSONAL INJURY.

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

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

 MAKE SURE HYDRAULIC HOSES ARE PROPERLY CONNECTED TO THE TOOL BEFORE PRESSURING SYSTEM.
 SYSTEM PRESSURE HOSE MUST ALLWINS BE CONNECTED TO TOOL IN PORT. SYSTEM RETURN HOSE.
 MUST ALLWINS BE CONNECTED TO TOOL OUT PORT.
 REVERSING CONNECTION MAY CAUSE REVERSE
 TOOL OPERATION WHICH CAN RESULT IN SEVERE
 PERSONAL INJURY.
- DO NOT CONNECT OPEN-CENTER TOOLS TO CLOSED-CENTER HYDRAULIC SYSTEMS. THIS MAY RESULT IN LOSS OF OTHER HYDRAULIC FUNCTIONS POWERED BY THE SAME SYSTEM AND/OR SEVERE PERSONAL INJURY. BYSTANDERS MAY BE INJURED IN YOUR WORK AREA. KEEP BYSTANDERS CLEAR OF YOUR WORK AREA.
- WEAR HEARING, EYE, FOOT, HAND AND HEAD PRO-
- 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) SAFETY TAG P/N 88346 (French Version)



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.

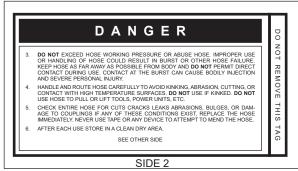
HOSE SAFETY TAGS

To help ensure your safety, the following DANGER tags are attached to all hose purchased from STANLEY. 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

Tool to Hydraulic Circuit Hose Recommendations

The chart to the right shows recommended minimum hose diameters for various hose lengths based on gallons per minute (GPM)/liters per minute (LPM). These recommendations are intended to keep return line pressure (back pressure) to a minimum acceptable level to ensure maximum tool performance.

This chart is intended to be used for hydraulic tool applications only based on STANLEY tool operating requirements and should not be used for any other applications.

All hydraulic hose must have at least a rated minimum working pressure equal to the maximum hydraulic system relief valve setting.

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

GPM FEET METERS INCH MM (Press/Return) PSI Certified Non-Conductive Hose - File Raid or File Raid or File Raid or File Raid - DO NOT USE NEAR ELECTRICAL CONDUCTORS 4-9 15-34 up to 10 up to 25 3/8 10 Both 2250 4-6 15-23 up to 25 up to 75 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 1/2 13 Both 2500 5-10.5 19-40 up to 50 up to 15 5/8 16 Both 2500 10-13 38-49 up to 50 up to 15 5/8 16 Return 2500 10-13 38-49 100-200 30-60 1 25.4 Return 2500 10-13 38-49 100-200 30-60 1 25.4 Return 2500 10-18	Oil	Oil Flow	Hose L	Hose Lengths	Inside Diameter	iameter	USE	Min. Workir	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 Both 38-49 100-200 15-30 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		Conducti	ve Hose - Wire	Braid or Fiber	Braid -DO	NOT USE NE	EAR 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 5/8 16 Pressure 38-49 up to 50 up to 15 5/8 16 Both 38-49 100-200 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	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 Both 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 up to 26 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 Return 49-60 26-100 8-30 1 25.4 Return	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 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	5-10.5	19-40	51-100	15-30	2/8	16	Both	2500	175
19-40 IOU-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 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	7 70	2,	000	00	2/8	16	Pressure	2500	175
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 Return 49-60 26-100 8-30 1 25.4 Return	-c -C	04-6	100-200	30-90	3/4	19	Return	2500	175
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 26-100 8-30 1 25.4 Return	10-13	38-49	up to 50	up to 15	8/9	16	Both	2500	175
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 26-100 8-30 1 25.4 Return	70	00	64 400	16 30	2/8	16	Pressure	2500	175
38-49 100-200 30-60 3/4 19 Pressure 49-60 up to 25 up to 8 5/8 16 Pressure 49-60 26-100 8-30 1 19 Pressure 1 25.4 19 Pressure	2-2	94-00	001-10	00-01	3/4	19	Return	2500	175
49-60 up to 25 up to 8 5/8 16 Pressure 49-60 26-100 8-30 1 25.4 Return	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	000	100 200	09.06	3/4	19	Pressure	2500	175
49-60 up to 25 up to 8 5/8 16 Pressure 3/4 19 Return 3/4 19 Pressure 49-60 26-100 8-30 1 25.4 Return	2-0	99-49	002-001	00-00	1	25.4	Return	2500	175
49-60 up to 25 up to 8 3/4 19 Return 3/4 19 Pressure 49-60 26-100 8-30 1 25.4 Return	2.7	00 04	20 -4	0 - 7	8/9	16	Pressure	2500	175
49-60 26-100 8-30 1 25.4 Return	0 -5	48-00	cz oı dn	o 01 dn	3/4	19	Return	2500	175
49-00 20-100 0-50 1 25.4 Return	2.0	0	007	o	3/4	19	Pressure	2500	175
	01-01	49-00	20-100	0-30	1	25.4	Return	2500	175

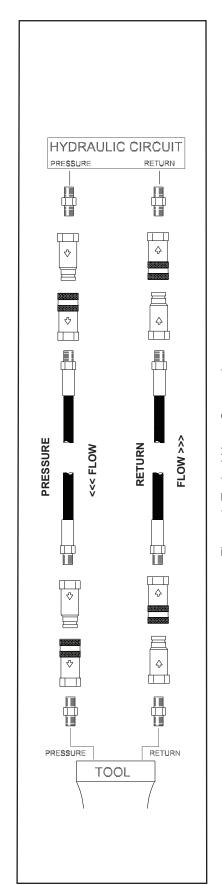


Figure 1. Typical Hose Connections

HTMA / EHTMA REQUIREMENTS

HTMA / EHTMA REQUIREMENTS

TOOL TYPE

HTMA 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 minimum 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 maximum fluid temperature to: (At maximum expected ambient temperature)	140° F	140° F	140° F	140° F
	(60° C)	(60° C)	(60° C)	(60° C)
Minimum cooling capacity at a temperature difference of between ambient and fluid temps	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)

Note: Do not operate the tool at oil temperatures above 140° F (60° C). Operation at higher temperatures can cause operator discomfort at the tool.

Filter minimum full-flow filtration	25 microns	25 microns	25 microns	25 microns
Sized for flow of at least: (For cold temp startup and maximum dirt-holding capacity)	30 GPM	30 GPM	30 GPM	30 GPM
	(114 LPM)	(114 LPM)	(114 LPM)	(114 LPM)
Hydraulic fluid, petroleum based (premium grade, antiwear, non-conductive) Viscosity (at minimum and maximum operating temps)	100-400 ssu	100-400 ssu	100-400 ssu	100-400 ssu
	(20-82	(20-82	(20-82	(20-82
	centistokes)	centistokes)	centistokes)	centistokes)

Note: 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	B 15i.pm at 138bar EHMA CATEGORY	C 20Lpm at 138bor EHTMA CATEGORY	SOLEM at 138bor EHTMA CATEGORY	40Lpm at 138bor EHTMA CATEGORY	SOLpm at 138bar EHINA 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	1500 psi	1500 psi	1500 psi	1500 psi
	(129 bar)	(103 bar)	(103 bar)	(103 bar)	(103 bar)
System relief valve setting (At the power supply outlet)	2495 psi	2000 psi	2000 psi	2000 psi	2000 psi
	(172 bar)	(138 bar)	(138 bar)	(138 bar)	(138 bar)

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



OPERATION

PRE-OPERATION PROCEDURES CHECK HYDRAULIC POWER SOURCE

- Using a calibrated flowmeter and pressure gauge, check that the hydraulic power source develops a flow of 9–10.5 gpm/34–40 lpm at 2000 psi/140 bar.
- 2. Make certain the hydraulic power source is equipped with a relief valve set to open at 2200–2300 psi/152–159 bar minimum.
- 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.

CHECK GUARD ASSEMBLY

1. Inspect the wheel guard assembly for cracks and other structural damage.

INSTALLING AND REMOVING ABRASIVE CUTTING WHEELS

NOTE:

Use 14 in./350 mm diameter (for 14 in. model) or 16 in./400 mm diameter (for 16 in. model) abrasive cutting wheels with a 1 in. arbor hole. Only use cutting wheels which comply with ANSI B7.5/ISO 525, 603. Make sure the paper labels or blotters are installed between the wheel and collars.

Before installing abrasive wheels, "sound" the wheel
for possible damage by hanging the wheel vertically
be the arbor hole and rapping lightly with a screwdriver handle or similar instrument. Thin, organic
bond wheels will produce a low drumming tone if it
is physically sound. If the wheel produces a "dead"
or "flat" sound, it may be cracked. Cracked or damaged wheels must never be used.

- Check that the surfaces of the wheel that come in contact with blotters and flanges are free of dirt and other foreign particles.
- Remove the jam nut (77) and outside collar (78) by using the supplied wrench (67074) while gripping the cutting wheel.
- 4. Install the cutting wheel. Make sure blotters or labels remain on the cutting wheel.
- Reinstall the outside collar and jam nut. Tighten the jam nut with the supplied wrench (67074) while gripping the cutting wheel. Only tighten sufficiently to prevent slippage of the wheel between the collars (78 & 79).

DRIVE SHAFT SPEED CHECK

The speed of the motor output shaft should be checked at least every 100 hours of operation by trained and experienced personnel. A record of the speed checks should be maintained. The rated speed of the RS25 Rail Saw is 3600 rpm at 10 gpm/38 lpm for the 16 inch/400 mm model and 4500 rpm at 10 gpm/38 lpm for the 14 inch/350 mm model. The cutting wheel must be rated for a minimum of 4700 rpm for the 16 inch/400 mm model and 5300 rpm for the 14 inch/350 mm model. Tests should be conducted while operating the normal power supply used with the saw.

CONNECT HOSES

- 1. Wipe all hose couplers with a clean lint-free cloth before making connections.
- Connect the hoses from the hydraulic power source to the hose couplers on the rail saw. It is a good practice to connect the return hose first and disconnect it last to minimize or avoid trapped pressure within the rail saw motor.
- Observe flow indicators stamped on hose couplers to be sure that oil will flow in the proper direction. The female coupler is the inlet 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.

OPERATION

OPERATING PROCEDURES CLAMPING THE RAIL SAW TO THE RAIL

- 1. Observe all safety precautions.
- 2. Make sure the rail clamp assembly is tight to the disconnect pivot (60) by turning the handle (20) to tighten the disconnect pivot bolt.
- Fully extend the indicator rod located on the clamp and position the rail clamp on the rail so the clamp arms bear on the top and sides of the rail and the bell crank bears under the rail as shown in Figure 2.

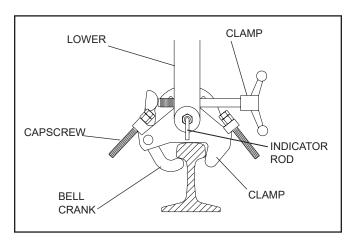


Figure 2.

4. Move the rail saw along the rail until the indicator is next to the cut as shown in Figure 3.

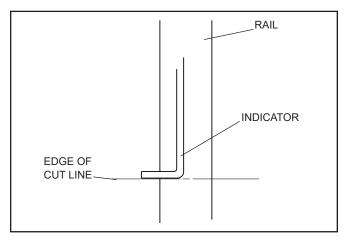


Figure 3.

5. Tighten the bell crank to the rail by turning the clamp screw (75) clockwise.

- 6. While holding onto the upper link of the rail clamp assembly (near the red knob of the handle), release the detent (129) by turning the knob and then position the lower link forward (away from the operator) until the detent can be re-engaged in one or the other of the two holes away from the "top dead center hole". This positions the saw so that the operator may stand erect while cutting the rail and also allows the saw to cut down to the flange of the rail.
 - An optional method is to disengage the detent and adjust the capscrews (see Figure 2) as required.
- 7. Adjust the wheel guard (87) so that it does not interfere with the cutting process and cuttings are directed away from the operator.

SAWING THE RAIL

- 1. Always start the rail saw with the cutting wheel away from the work surface.
- 2. Start the cut with the wheel rotating.

NOTE:

Do not "bump" the rail. Feed the wheel through the material as fast as possible without allowing the wheel to reduce its speed. Cutting through the material too slowly allows heat expansion and can cause wheel "pinching" in the material. "Pinching" the wheel from heat expansion is one of the most common causes of wheel breakage.

- Starting at the top of the rail, cut straight down while rocking the handle back and forth. Cut down until near the flange.
- 4. When near the flange, stop the saw, release the detent and move the lower link toward the operator until the detent can be re-engaged in one of the holes away from the "top dead center hole". This positions the saw lower so that the flange of the rail may be easily cut.

If the detent has been removed in favor of using the capscrews as stops for the lower link, simply move the lower link toward the capscrew closest to the operator.

If the wheel is worn such that it will not completely cut through the rail, loosen the clamp lever on the saw, and rotate the saw to allow cutting from the opposite side. Readjust the lower link as required and finish the cut.

OPERATION

DETACHING THE UPPER AND LOWER LINKS

The upper and lower links of the rail clamp assembly can be detached from the motor mount (50) by unscrewing the handle (20).

SAW STORAGE

By disengaging the double cam (52), the rail clamp assembly can be rotated so that the entire saw has a flatter profile for storage.

Do not store the saw with the abrasive wheel attached.

CARE OF ABRASIVE CUT-OFF WHEELS



All abrasive cut-off wheels are breakable and, therefore, care must be exercised during handling and storage to prevent damage.

Wheels should be laid on a flat, rigid, surface away from excessive heat or moisture. Wheels should not be stored where they will be exposed to high humidity, water, other liquids or freezing temperature. If wheels are supplied with blotters attached, suitable separators should be used to preserve flatness.

COLD WEATHER OPERATION

If the saw 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

INVESTIGATION OF WHEEL BREAKAGE

If a wheel breaks during use, a careful investigation should be conducted by to determine the cause of the breakage. The cause must then be corrected before using the saw again.

If unable to determine the cause of breakage, the wheel manufacturer should be consulted.

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. 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 grinder, always check that the hydraulic power source is supplying the correct hydraulic flow and pressure to the grinder as listed in the table. Use a flowmeter known to be accurate. Check the flow with the hydraulic oil temperature at least 80 $^{\circ}$ F/27 $^{\circ}$ C.

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Saw does not run.	Hydraulic power source not functioning correctly.	Check power source for proper flow and pressure (7–10 gpm/26–34 lpm, 2000 psi/140 bar.
	Coupler or hoses blocked.	Remove obstruction.
	Mechanical failure.	Have tool serviced by authorized dealer.
Saw runs backwards.	Pressure and return lines incorrectly connected.	Correct hose connections. Motor shaft rotates counter-clockwise as viewed from the end of the motor shaft.
Saw cuts too slow.	Insufficient fluid flow or too high back- pressure or relief valve set too low.	Check hydraulic supply. If hydraulic supply is correct, have unit serviced by authorized dealer.
	Wrong wheel for material being cut.	Use correct wheel.
Fluid leakage.	Seal failure.	Do not use. Have serviced by an authorized dealer.
Off-center cut and binding.	Bearings worn on link arms.	Have unit serviced by an authorized dealer.
	Incorrect cutting technique.	Review operating procedures.

SPECIFICATIONS

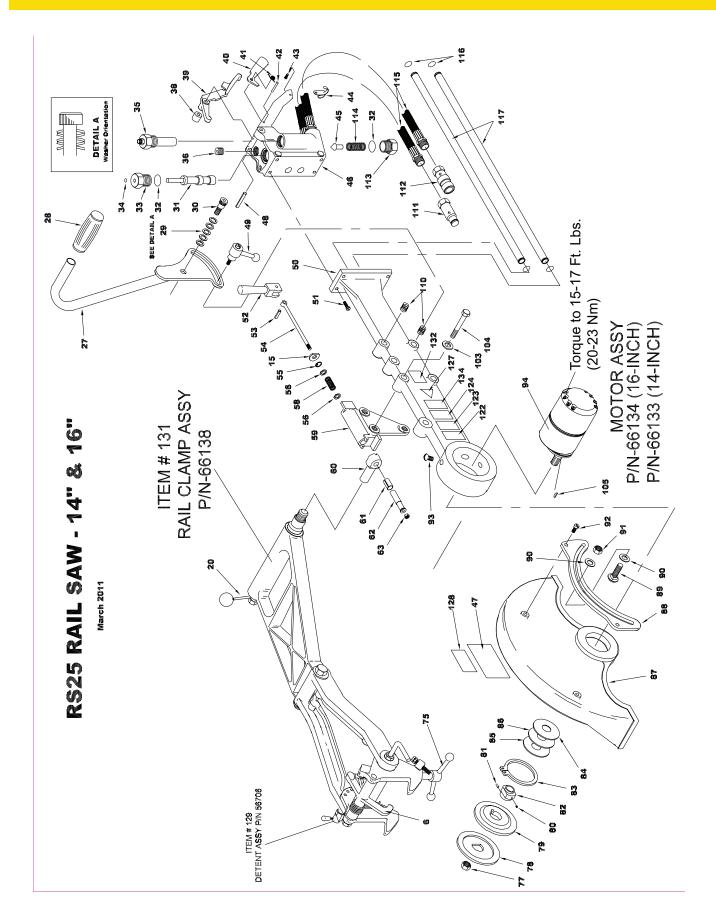
wheel Capacity	
14 inch Model	
16 inch Model	
Pressure Range	
Flow RangeHTMA Class RR, 9–10.5 g	
EHTMA (D)	
EHTMA (E)	•
Porting	•
Couplers	ush Face Type
Hose Whips	
Weight (with hose whips & couplers)	
Overall Length	
Overall Width 11	
Overall Height (w/wheel, guard rotated to any position)	inches/33 cm
14 inch Model	55 lhs/24 4 kg
16 inch Model	-
RPM	00 120,20 Ng
14 inch Model	4500
16 inch Model	4000
Maximum Fluid Temperature	
Rail Size75–165 lb/ya	rd/37–82 kg/M
Sound and Vibration Declaration	
Test conducted on RS25100	
Measured A-weighted sound power level, Lwa (ref. 1pW) in decibels	109.64 dBA
Measured A-weighted sound pressure level, Lpa (ref. 20 μPa) at operator's position, in decibels	101.66 dBA
Values determined according to noise test code given in EN ISO 15744, 11203 and 3744.	
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.	
Measured vibration emission value: a (Trigger Handle)	7.3 m/sec ²
Measured vibration emission value: a (Aux Handle)	12.6 m/sec ²
Uncertainty: K	1.86 m/sec ²
Values determined according to EN ISO 28927-8	
ACCESSORIES	
Railsaw Blade 14 inch Custom-Labeled	
Railsaw Blade 16 inch Custom-Labeled	
Railsaw Blade 16 inch Norton A48 GEN 2	
Railsaw Blade 14 inch Norton Norzon III Fastcut	
Seal Kit (Includes 66399 JIHOSTROJ Seal Kit)	
Motor Seal Kit Assy (Serial No. 3585 (included in 31845)	
Universal Bellcrank Kit (Grooved Rail)	34733
Motor Upgrade Kit 14 inch Model (After Serial No. 2598)	66191
In the Land CEOOF Discours of Discot Dally CEOOO Discot Tally CEOO7 In the Dall COAOO Materials	`

Includes 65625 Disconnect Pivot Bolt, 65626 Pivot Tube, 65627 Indicator Rod, 66133 Motor Assy)

Includes 65625 Disconnect Pivot Bolt, 65626 Pivot Tube, 65627 Indicator Rod, 66134 Motor Assy)

Wheel Capacity

RS25 PARTS ILLUSTRATION



RS25 PARTS LIST

ITEM	PART NO.	QTY	DESCRIPTION	
6	28181	1	BELL CRANK	
15	30958	1	"D" WASHER	
20	66136	1	HANDLE WELDMENT	
26	_	1	*REFER TO ITEM 131	
27	30671	1	ASSIST HANDLE	
28	31030	1	HANDLE GRIP	
29	31181	5	BELLEVILLE WASHER	
30	30667	1	SHOULDER BOLT	
31	31138	1	VALVE SPOOL	
32	01604	2	O-RING*	
33	02931	1	VALVE CAP	
34	00112	1	QUAD RING*	
35	31853	1	FLOW CONTROL (16 IN MODEL ONLY)	
	31854	1	FLOW CONTROL (14 IN MODEL ONLY)	
36	08104	1	SAE PLUG	
38	02920	1	SPACER	
39	22707	1	TRIGGER	
40	22704	1	SAFETY CATCH	
41	22701	1	TORSION SPRING	
42	17668	1	ROLL PIN	
43	35963	1	SCREW	
44	02911	1	HOSE CLIP	
45	31186	1	POPPET	
46	28552	1	VALVE HANDLE ASSY (INCL ITEM 36)	
47	17641	1	WHEEL SAFETY LABEL (16 IN MODEL)	
	05868		WHEEL SAFETY LABEL (14 IN MODEL)	
48	17681	1	ROLL PIN	
49	24869	1	HANDLE	
50	35289	1	MOTOR MOUNT ASSY	
51	02688	4	CAPSCREW	
52	30632	1	DOUBLE CAM	
53	30635	1	SPIROL PIN	
54	29510	1	EYE BOLT	
55	04856	1	RETAINING RING	
56	30841	2	WASHER	
58	28673	1	SPRING	
59	30412	1	MOTOR MOUNT PIVOT	
60	30530	1	DISCONNECT PIVOT	
61	28711	1	TOLERANCE RING	
62	30543	1	STUD	
63	04353	1	LOCKNUT	

TIEM NO. QTY DESCRIPTION
77 03012 1 JAM NUT 78 62291 1 OUTER COLLAR 79 62290 1 INSIDE COLLAR 80 00720 1 SET SCREW 81 23246 1 DOWEL PIN 82 59050 1 THRUST COLLAR 83 30219 1 RETAINING RING 84 31034 1 SHIM, .005 (*NOTE QUANTITY WHEN DISASSEMBLING TOOL) 85 31032 1 SHIM, .020 (*NOTE QUANTITY WHEN DISASSEMBLING TOOL) 86 31033 1 SHIM, .010 (*NOTE QUANTITY WHEN DISASSEMBLING TOOL)
78 62291 1 OUTER COLLAR 79 62290 1 INSIDE COLLAR 80 00720 1 SET SCREW 81 23246 1 DOWEL PIN 82 59050 1 THRUST COLLAR 83 30219 1 RETAINING RING 84 31034 1 SHIM, .005 (*NOTE QUANTITY WHEN DISASSEMBLING TOOL) 85 31032 1 SHIM, .020 (*NOTE QUANTITY WHEN DISASSEMBLING TOOL) 86 31033 1 SHIM, .010 (*NOTE QUANTITY WHEN DISASSEMBLING TOOL)
79 62290 1 INSIDE COLLAR 80 00720 1 SET SCREW 81 23246 1 DOWEL PIN 82 59050 1 THRUST COLLAR 83 30219 1 RETAINING RING 84 31034 1 SHIM, .005 (*NOTE QUANTITY WHEN DISASSEMBLING TOOL) 85 31032 1 SHIM, .020 (*NOTE QUANTITY WHEN DISASSEMBLING TOOL) 86 31033 1 SHIM, .010 (*NOTE QUANTITY WHEN
80 00720 1 SET SCREW 81 23246 1 DOWEL PIN 82 59050 1 THRUST COLLAR 83 30219 1 RETAINING RING 84 31034 1 SHIM, .005 (*NOTE QUANTITY WHEN DISASSEMBLING TOOL) 85 31032 1 SHIM, .020 (*NOTE QUANTITY WHEN DISASSEMBLING TOOL) 86 31033 1 SHIM, .010 (*NOTE QUANTITY WHEN DISASSEMBLING TOOL)
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83 30219 1 RETAINING RING 84 31034 1 SHIM, .005 (*NOTE QUANTITY WHEN DISASSEMBLING TOOL) 85 31032 1 SHIM, .020 (*NOTE QUANTITY WHEN DISASSEMBLING TOOL) 86 31033 1 SHIM, .010 (*NOTE QUANTITY WHEN DISASSEMBLING TOOL)
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B5 31032 1 SHIM, .020 (*NOTE QUANTITY WHEN DISASSEMBLING TOOL) 86 31033 1 SHIM, .010 (*NOTE QUANTITY WHEN
DISASSEMBLING TOOL) 86 31033 1 SHIM, .010 (*NOTE QUANTITY WHEN
DISASSEMBLING TOOL)
87 81200 1 WHEEL GUARD (16 IN MODEL)
28709 1 WHEEL GUARD (14 IN MODEL)
73168 WHEEL GUARD (16 IN MODEL) LOW SPARK (SEE PHOTO PAGE 19)
88 17652 1 SECTOR
89 28729 1 CARRIAGE BOLT
90 01594 2 WASHER
91 03906 1 LOCKNUT
92 17676 2 CAPSCREW
93 03006 2 MACHINE SCREW
94 66134 1 MOTOR ASSY (16 IN, CAN ONLY BE PURCHASED AS AN ASSEMBLY)
66133 1 MOTOR ASSY (14 IN, CAN ONLY BE PURCHASED AS AN ASSEMBLY)
103 00283 3 LOCK WASHER
104 16260 3 CAPSCREW
105 00772 1 KEY
110 00698 2 HELICOIL
111 03973 1 MALE COUPLER BODY (PARKER)
81159 1 MALE COUPLER BODY (STUCCHI)
112 03972 1 FEMALE COUPLER BODY (PARKER)
81158 1 FEMALE COUPLER BODY (STUCCHI)
113 31137 1 PLUG
114 02916 1 SPRING
115 56725 2 HOSE ASSY (PARKER)
66727 1 HOSE ASSY (AEROQUIP)
116 00175 4 O-RING*
117 29604 2 OIL TUBE
118 30922 1 O-RING (16 IN MODEL)*
350771 1 O-RING (14 IN MODEL)*
119 30921 1 QUAD RING (16 IN MODEL)*
00214 1 QUAD RING (14 IN MODEL)*

RS25 PARTS LIST

PART NO. **DESCRIPTION** ITEM QTY 122 74816 NAME TAG (16 IN MODEL COMPOSITE STICKER (14 IN 88347 1 MODEL) RAILROAD HELP DESK (16 IN 123 73680 MODEL) 74816 NAME TAG (14 IN MODEL) 03787 **GPM STICKER (16 IN MODEL)** 124 1 28322 1 CE STICKER (14 IN MODEL) 127 11207 CIRCUIT "D" STICKER (14 IN MODEL) 128 74812 **INFORMATION PLAQUE (16 IN** MODEL) **INFORMATION PLAQUE (14 IN** 74813 1 MODEL) 129 56706 **DETENT ASSY** 130 1 **REFER TO ITEM 129** 131 66138 1 RAIL CLAMP ASSY 132 81434 SOUND POWER STICKER LOGO-ADDRESS DECAL 133 74820 134 88723 **UKCA STICKER** SK 31845 SEAL KIT

Verify the correct model number before ordering.

Item 133 (P/N-74820) Logo/Address Decal (UP Model Only)



STANLEY

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