

# FG10 HYDRAULIC FROG GRINDER PG05 HYDRAULIC PROFILE GRINDER



# SAFETY, OPERATION AND MAINTENANCE **USER MANUAL**







# **DECLARATION OF CONFORMITY**

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





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

Weisbeck, Andy

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:	Grinder, Hy	/draulic
		,	

Kategorie: Catégorie: Categoria: Categoria:

2. Make/Marke/Marque/Marca/Marca

Stanley

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

FG1011001

 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	3744:2009	Self
ISO	792-7:1994	Self
ISO	8662-4:1998	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-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	Stanle	y Hy	draulic Tools, Milwaukie, Orego	n USA	Date/Datum/le/Fecha/Data	1-10-1	1

Signature/Unterschrift/Signature/Firma/Firma

Position/Position/Fonction/Cargo/Posizione\_

Engineering Manager



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### **IMPORTANT**

To fill out a Product Warranty Recording form, and for information on your warranty, visit Stanleyhydraulic.com and select the Warranty tab.

(NOTE: The warranty recording form must be submitted to validate the warranty).

**SERVICING THE STANLEY HYDRAULIC FROG GRINDER/PROFILE GRINDER.** 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, will result in death or serious injury.

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>.

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

### LOCAL SAFETY REGULATIONS

MPORTAN

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



# **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 FG10 Hydraulic Frog Grinder or the model PG05 Profile Grinder 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 grinder and hose before operation. Failure to do so could result in personal injury or equipment damage.







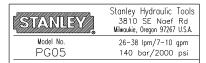
- The operator must start in a work area without bystanders. Flying debris can cause serious injury.
- Do not operate the tool unless thoroughly trained or under the supervision of an instructor. Establish a training program for all operators to ensure safe operation.
- Always wear safety equipment such 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, clean or replace the grinding wheel while the hydraulic power source is connected. 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 the tool with the wheel guard removed.
- Do not operate a damaged, improperly adjusted, or incompletely assembled grinder.
- 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 wheel. Long hair or loose clothing can become drawn into rotating components.
- Keep the wheel off all surfaces when starting the grinder.
- Do not use a wheel that is cracked, chipped or otherwise damaged. Always inspect wheels for possible damage before installation or use.
- Always use wheels that conform to the specifications given in the OPERATION section of this manual.
- Do not reverse grinding wheel rotation direction by changing fluid flow direction.
- Do not move the tool until the wheel has stopped rotating. Release the trigger if the power supply has been interrupted.



# **TOOL STICKERS & TAGS**



29715 PG05 Name Tag

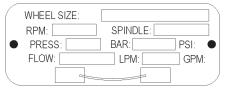


28727 FG10 Name Tag

### **STANLEY** RAILROAD HELP DESK

1-800-549-0517 **FOR CUSTOMER SERVICE OR TECHNICAL QUESTIONS** 

25610 Railroad Help Desk Decal



28811 Information Plaque (CE)

### 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.



03787 **GPM Decal** 

20647

Decal (CE)

Sound Power Level



28409 Composite Decal (CE)



25790

05152 Stanley Sticker

PROTECT YOUR EYES

WEAR SAFETY GOGGLES

1. DO NOT USE DAMAGED WHEELS.
2. USE ONLY WHEELS THAT MEET REQUIREMENTS OF ANSI 87.1,87.5, ISO 525,603

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28322 11207 CE Decal Circuit Type D Decal (CE)



28376 Stanley Logo Decal (CE)

Stanley Hydraulic tools Division of the Stanley Works 3810 SE Naef Road



FAILURE TO USE HYDRAULIC HOSE LABELED AND CERTIFIED AS NON-CONDUCTIVE WHEN USING HYDRAULIC TOOLS NO R NEAR ELECTRICAL LINES MAY RESULT IN DEATH OR SERIOUS INJURY.

BEFORE USING HOSE LABELED AND CERTIFIED AS NON-CONDUCTIVE ONDER LABELED AND CERTIFIED AS WON-CONDUCTIVE ONDER LABELED AND CONDUCTIVE THE HOSE SHAMITAINED 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

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

  MANAGED HOSE ARE PROPERLY CONNECTED TO THE TOOL BEFORE PRESSURING SYSTEM.

  SYSTEM PRESSURE HOSE MUST ALWAYS BE CONNECTED TO TOOL O'UT PORT REVERSING CONNECTED TO TOOL 'O'UT PORT REVERSING CONNECTED TO TOOL O'UT PORT REVERSING CONNECTIONS 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-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.* 

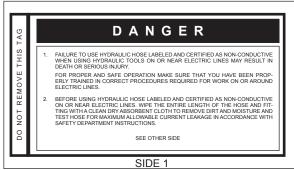
**Fabric-braided** (not certified or labeled non-conductive) — constructed of thermoplastic or synthetic rubber inner tube, synthetic fiber braid reinforcement, and weather resistant thermoplastic or synthetic rubber cover. *This hose is not certified non-conductive* and must never be used near electrical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

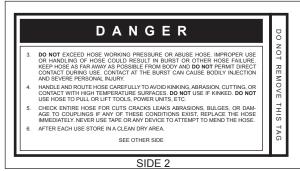
### **HOSE SAFETY TAGS**

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**

# 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 Hydraulic Tools 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 maximinimum working pressure equal to the maximum working pressure eq

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

mum hydraulic system relief valve setting.

Oil	Oil Flow	Hose L	Hose Lengths	Inside L	Inside Diameter	NSE	Min. Workir	Min. Working Pressure
GPM	LPM	FEET	METERS	INCH	MM	(Press/Return)	PSI	BAR
		Certified No	Certified Non-Conductive Hose - Fiber Braid - for Utility Bucket Trucks	Hose - Fibe	r Braid - for	Utility Bucket	Trucks	
4-9	15-34	up to 10	up to 3	3/8	10	Both	2250	155
	Conducti	ve Hose - Wire	Conductive Hose - Wire Braid or Fiber Braid -DO NOT USE NEAR ELECTRICAL CONDUCTORS	Braid -DO	NOT USE NE	AR ELECTRIC	AL CONDUCT	ORS
4-6	15-23	up to 25	up to 7.5	3/8	10	Both	2500	175
4-6	15-23	26-100	7.5-30	1/2	13	Both	2500	175
5-10.5	19-40	up to 50	up to 15	1/2	13	Both	2500	175
5-10.5	19-40	51-100	15-30	8/9	16	Both	2500	175
7 0	0,7	000	000	2/8	16	Pressure	2500	175
6.01-6	04-8-	000-001	08-00	3/4	19	Return	2500	175
10-13	38-49	up to 50	up to 15	8/9	16	Both	2500	175
7	00	7	7. 00	8/9	16	Pressure	2500	175
2	00 94-00	001-16	06-61	3/4	19	Return	2500	175
2	00	100 300	900	3/4	19	Pressure	2500	175
2	94-00	002-001	00-00	1	25.4	Return	2500	175
0,7	00	JC 04 01.	0 0	8/9	16	Pressure	2500	175
0 -2	00-84	cz 01 dn	o 01 dn	3/4	19	Return	2500	175
7 7 7	09 07	26.400	000	3/4	19	Pressure	2500	175
01-61	49-60	70-100	05-0	_	25.4	Return	2500	175

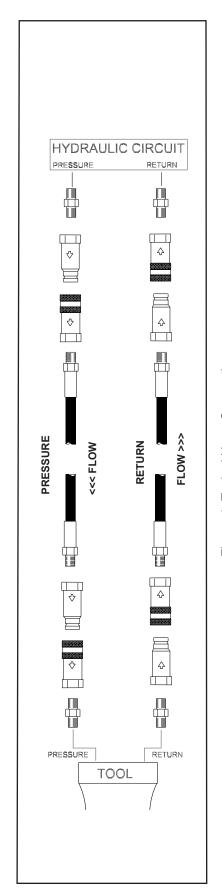


Figure 1. Typical Hose Connections

# **HTMA / EHTMA REQUIREMENTS**

### HTMA / EHTMA REQUIREMENTS

HTMA **TOOL TYPE** HYDRAULIC SYSTEM REQUIREMENTS TYPE II TYPE I **TYPE RR** TYPE III 7-9 gpm 4-6 gpm 9-10.5 gpm 11-13 gpm Flow Range (15-23 lpm) (26-34 lpm) (34-40 lpm) (42-49 lpm) 1500 psi 1500 psi 1500 psi 1500 psi Nominal Operating Pressure (103 bar) (103 bar) (103 bar) (103 bar) (at the power supply outlet) 2100-2250 psi 2100-2250 psi 2200-2300 psi System relief valve setting 2100-2250 psi (145-155 bar) (at the power supply outlet) (145-155 bar) (152-159 bar) (145-155 bar) Maximum back pressure 250 psi 250 psi 250 psi 250 psi (at tool end of the return hose) (17 bar) (17 bar) (17 bar) (17 bar) Measured at a max. fluid viscosity of: 400 ssu\* 400 ssu\* 400 ssu\* 400 ssu\* (at min. operating temperature) (82 centistokes) (82 centistokes) (82 centistokes) (82 centistokes) 140° F 140° F 140° F 140° F Temperature: Sufficient heat rejection capacity to limit max. fluid temperature to: (60°C) (60°C) (60° C) (60°C) (at max. expected ambient temperature) Min. cooling capacity at a temperature 3 hp 5 hp 6 hp 7 hp difference of between ambient and fluid (4.47 kW) (2.24 kW) (3.73 kW) (5.22 kW) 40° F temps 40° F 40° F 40° F NOTE: (22° C) (22° C) (22° C) (22° C) 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 25 microns 25 microns 25 microns 25 microns Min. full-flow filtration 30 gpm 30 gpm 30 gpm 30 gpm Sized for flow of at least: (114 lpm) (114 lpm) (114 lpm) (114 lpm) (For cold temp. startup and max. dirt-holding capacity) Hydraulic fluid Petroleum based 100-400 ssu\* 100-400 ssu\* 100-400 ssu\* 100-400 ssu\* (premium grade, anti-wear, non-conductive) (20-82 centistokes) Viscosity (at min. and max. operating temps)

### 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 4.7-5.8 gpm 9.5-11.6 gpm 11.8-14.5 gpm Flow Range 3.5-4.3 gpm 7.1-8.7 gpm (13.5-16.5 lpm) (18-22 lpm) (27-33 lpm) (36-44 lpm) (45-55 lpm) Nominal Operating Pressure 1870 psi 1500 psi 1500 psi 1500 psi 1500 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) (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**

# PREOPERATION PROCEDURES CHECK HYDRAULIC POWER SOURCE

- Using a calibrated flowmeter and pressure gauge, check that the hydraulic power source develops a flow of 7-10 gpm/26-38 lpm at 1500-2000 psi/105-140 bar.
- Make certain the hydraulic power source is equipped with a relief valve set to open at 2100-2250 psi/145-155 bar minimum.
- Check that the hydraulic circuit matches the tool for open-center (OC) or closed-center (CC) 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 WELDMENT

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

# INSTALLING AND REMOVING GRINDING WHEEL

NOTE: Use 6 inch diameter up to 3 inch thick (Type 6 for USA) grinding wheels with a 5/8-11 threaded arbor hole. Only use grinding wheels which comply with ANSI B7.1, B7.5/ISO 525, 603.

READ AND BECOME FAMILIAR WITH THE SECTIONS IN THIS MANUAL ON SAFETY PRECAUTIONS, TOOL STICKERS AND TAGS, HYDRAULIC HOSE REQUIREMENTS, HYDRAULIC REQUIREMENTS, AND PREOPERATION PROCEDURES BEFORE USING THIS PRODUCT.

### **USA CONFIGURATION**

- 1. Unscrew the two nuts (98) which secure the guard weldment (95) to the frame and remove the guard weldment.
- 2. Install the grinding wheel until it comes in contact with the drive flange.

- Using the wrench (127) provided, place it on the flats of the drive flange. Place a strap wrench on the grinding wheel and then tighten by gripping and turning the strap wrench while holding the wrench provided.
- 4. Replace the guard weldment.

### WHEEL PIVOT ADJUSTMENTS FOR PROFILE OR FROG GRINDING OPERATIONS

NOTE: The PG05 does not contain the pivot wheels or the extension assembly.

### GRINDING WINGS

For grinding a wing of the frog, place the grinder on top of the wing with the rollers (91) resting on top of the wing to be ground. Adjust each wheel pivot (86) to the position shown in figure 1. Grinding is accomplished by moving the grinder back and forth in line with the rail. When finished with one wing, rotate the entire grinder 180 degrees and place it on the other wing.



Never over-tighten the grinding wheel by impacting the wrench with a mallet or hammer. Sufficient torque is attained by hand-tightening the wheel with a strap wrench while securing the drive flange with the wrench provided.



# **OPERATION**

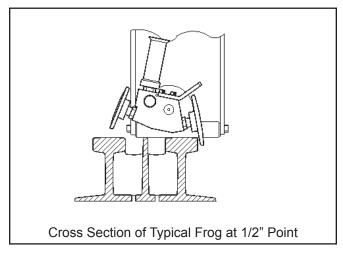


Figure 1. Grinding the Wings of a Frog GRINDING THE POINT

For grinding the point of a frog, place the grinder on top of the point with the rollers (91) resting on the top of the point. Adjust each wheel pivot (86) to the position shown in figure 2. Grinding is accomplished by moving the grinder back and forth in line with the rail. It may be necessary to rotate the entire grinder 180 degrees and place it on the other side of the point in order to completely grind the width of the point. The extension assembly (128) is normally used during point grinding operations.

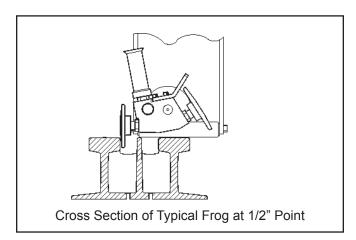


Figure 2. Grinding the Point of a Frog

### **PROFILE GRINDING**

For profile grinding of rail, place the grinder on top of the rail with the rollers (91) resting on top of the rail to be ground. Adjust each wheel pivot (86) to the position shown in Figure 3. Grinding is accomplished by moving the grinder back and forth in line with the rail.

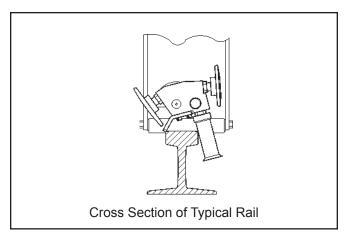


Figure 3. Profile Grinding

### **USING THE EXTENSION ASSEMBLY**

The extension assembly (128) can be used at anytime by simply connecting it to one end of the grinder at the barrel nut (61) and clamping it in place by turning the adjustable handle (44).

### CONNECTING THE 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 grinder. It is a good practice to connect the return hose first and disconnect it last to minimize or avoid trapped pressure within the grinder 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.

### OPERATING PROCEDURES

- 1. Observe all safety precautions.
- Always start the grinder with the grinding wheel away from the work surface by turning the handwheel counter clockwise to raise the wheel.
- Move the hydraulic circuit control valve to the "ON" position.
- Squeeze the trigger momentarily. If the grinder does not operate, the hoses might be reversed. Verify correct connection of the hoses before continuing.
- 5. Start the grinder and move the grinding wheel to the work surface by turning the handwheel clockwise.



# **OPERATION**

Grind a small amount of material at a time adjusting the grinding wheel as necessary by turning the handwheel.

Note: If the grinder is not loaded against a work surface when the trigger is released, the wheel will take 5-10 seconds to come to a complete stop. Avoid unintentional contact of the grinding wheel during the coast down period.

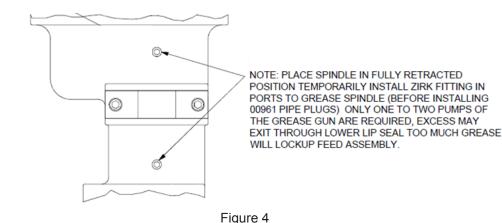
### **COLD WEATHER OPERATION**

If the grinder 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

Damage to the hydraulic system or grinder can result from use with fluid that is to viscous or too thick.

### PREVENTATIVE MAINTENANCE

- The gears and bearings in the ram, spindle, and housing assemblies should be regreased every 6 months or 500 hours, This procedure must be accomplished by a trained technician.
- After each servicing, measure the spindle speed (rpm - revolutions per minute) at 12 gpm/45 lpm input. The nominal speed is 4000, not to exceed 6000 rpm. This procedure must be accomplished by a trained technician.
- Inspect the spindle and drive flange for signs of wear or damage. Runout should not exceed .004 in./.1 mm TIR on threads or .002 in./.05 mm TIR on arbor diameters and faces.
- 4. Check hoses and fittings weekly for any evidence of leakage, cover wear, cracking or cuts. If any of these defects are found, discontinue use of the tool immediately and have the defects repaired or replaced by a trained technician.
- To grease between main housing bore (item 73) and the ram outer diameter (item 26) use CAUTION only one to two pumps of grease are required at these locations, excess grease will lockup feed assembly (See figure 4 below).





# **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 (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  $80^{\circ}F/27^{\circ}C$ .

PROBLEM	CAUSE	SOLUTION
Grinder does not run	Hydraulic power source not functioning.	Check power source for proper flow and pressure (7-10 gpm/ 26-38 lpm @ 1500-2000 psi/ 105-140 bar.
	Couplers or hoses blocked.	Locate and remove restriction.
	Hydraulic motor failure.	Inspect and repair.
	Hydraulic lines not connected.	Connect lines.
Grinder operates too slow.	Hydraulic motor speed to slow.	Check power unit for proper flow (7-10 gpm/26-38 lpm).
	High back-pressure.	Check hydraulic system for excessive back-pressure (over 250 psi/17 bar).
	Couplers or hoses blocked.	Locate and remove restriction.
	Oil too hot (above 140°F/60°C) or too cold (below 60°F/16°C).	Check hydraulic power source for proper oil temperature. Bypass cooler to warm oil or provide cooler to maintain proper temperature.
	Relief valve set too low.	Adjust relief valve to 2100-2250 psi/145-155 bar.
	Hydraulic motor worn.	Inspect, repair or replace.
	Flow control malfunctioning.	Have flow control serviced at an authorized Stanley service center.
Grinder operates too fast.	Flow control malfunctioning.	Have flow control and valve body serviced at an authorized Stanley service center.



# **SPECIFICATIONS**

Pressure Range  Maximum Back Pressure  Flow Range  Porting  Couplers  Connect Size and Type  Hose Whips  Weight (with couplers)  Overall Length  Overall Width  Overall Height  RPM  Hyrevz <sup>TM</sup> Motor  Maximum Fluid Temperature  Sound Power Level  Sound Pressure Level (1m)	6 in. dia. x 3 in. thk x 5/8-11 threaded arbor (Type 6) U.S.A 1000-2000 psi/70-140 bar 250 psi/17 bar HTMA Type RR, 7-10 gpm/26-38 lpm 8 SAE O-ring HTMA/EHTMA Flush Face Type Male & Female 3/8 in. Male Pipe Adapter No 90 lb/41 kg 44 inches/111.76 cm 10.5 inches/26.7 cm 32.5 inches/82.5 cm 4000 25251 140° F/60° C 104 dBA 94dBA
Sound Pressure Level (1m)	94dBA
VIDIALIOIT Level	Less than 2.5m/sec <sup>2</sup>

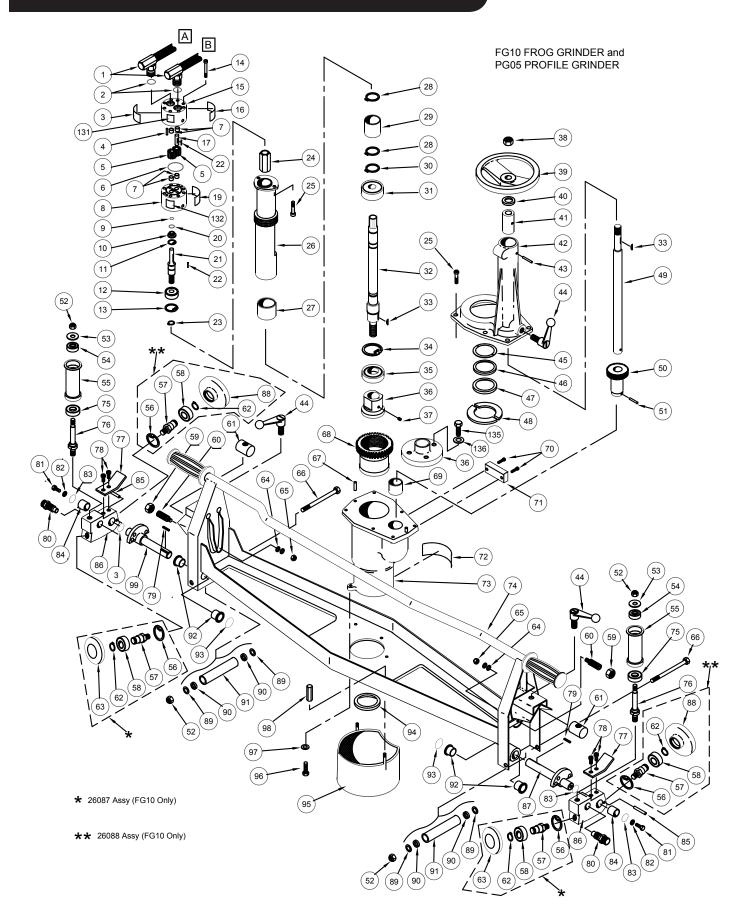
SOUND AND VIBRATION DECLARATION	
Test conducted on FG10110 S/N 527 operated at standard 10 gpm input	
Measured A-weighted sound power level, Lwa (ref. 1pW) in decibels	103.86 dBA
Uncertainty, Kwa, in decibels	3 dBA
Measured A-weighted sound pressure level, Lpa (ref. 20 μPa) at operator's position, in decibels	94 dBA
Uncertainty, Kpa, in decibels	3 dBA
Values determined according to noise test code given in ISO 15744, using the basic standard ISO3744 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: a	2.0 m/sec <sup>2</sup>
Uncertainty: K	0.5 m/sec <sup>2</sup>
Values determined according to ISO 8662-4, ISO 5349-1,2	

# **ACCESSORIES**

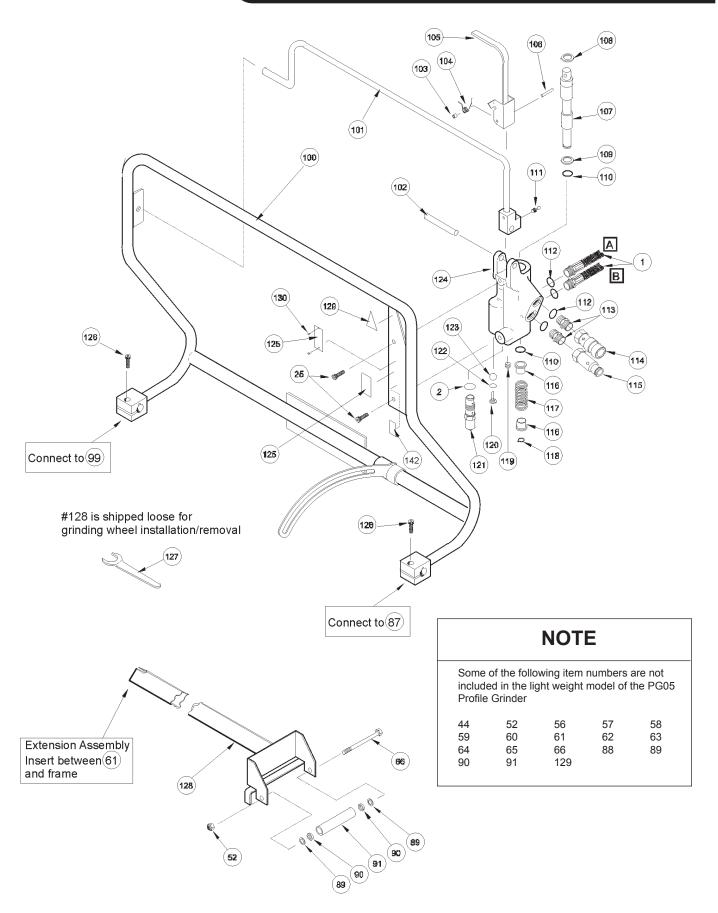
6 x	3 x	5/8-1	1 Thread	Cun	Stone	28597
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# **FG10-PG05 PARTS ILLUSTRATION**



# **FG10-PG05 PARTS ILLUSTRATION**





# **FG10 PARTS LIST**

ITEM	P/N	QTY	DESCRIPTION
1	25294	2	HOSE ASSEBLY
	25251	1	HYREVZ MOTOR ASSY (INCL ITEMS 4-15, 17, 18, & 20-23)
2	01604	3	O-RING •
3	25790	1	CAUTION STICKER (US MODELS)
4	00713	2	DOWEL PIN
5	25718	2	DRIVE GEARS
6	00178	1	O-RING, 2-1/8 X 2-1/4 X 1/16 70D •
7	06316	4	BUSHING
8	19905	1	FRONT BEARING HOUSING ASSY (INCL ITEM 7)
9	00669	1	QUAD RING •
10	19884	1	SEAL GLAND
11	00170	1	RETAINING RING
12	00148	1	BEARING
13	00166	1	RETAINING RING
14	00120	8	CAPSCREW
15	06846	1	GEAR HOUSING ASSEMBLY (INCL ITEMS 5 & 8)
16	25610	1	RAILROAD HELP DESK DECAL (US MODELS ONLY)
17	73309	1	IDLER SHAFT KEYED
19	28727	1	NAME TAG (US & CE MODELS)
20	00171	1	O-RING, 11/16 X 13/16 X 1/16 70D •
21	25166	1	MOTOR SHAFT
22	06881	2	NEEDLE ROLLER
23	00708	1	RETAINING RING
24	25158	1	SPLINED COUPLING
25	02688	10	CAPSCREW
26	25099	1	RAM
27	25291	1	NEEDLE ROLLER BEARING
28	25289	2	RETAINING RING
29	25290	1	INNER RING
30	25281	1	RETAINING RING
31	25279	1	BEARING
32	27941	1	SPINDLE
33	00772	2	WOODRUFF KEY
34	25278	1	RETAINING RING
35	25280	1	OIL SEAL, 1.250 X 2.047 X .299 •
36	25419	1	DRIVE FLANGE (US MODELS ONLY)
37	01607	1	SET SCREW
38	02179	1	NUT
39	26809	1	HAND WHEEL
40	25287	1	WIPER •
41	27748	1	BUSHING
42	27749	1	HOUSING
43	02900	1	ROLL PIN

44 25285 3 ADJUSTABLE HANDLE 45 25104 1 BACKUP WASHER 46 25286 1 WIPER TYPE H • 47 25293 1 SQUARE RING • 48 25103 1 THRUST WASHER 49 26810 1 SHAFT 50 25083 1 PINION GEAR 51 25283 1 ROLL PIN 52 03906 2 HEX NUT 53 02634 2 WASHER 54 00048 2 BEARING 55 26019 2 ROLLER 26087 1 WHEEL ASSY 2.5 INCH (INCL ITEMS 56-58 & 62, 63)  26088 1 WHEEL ASSY 3.0 INCH (INCL ITEMS 56-58 & 62, 63)  26088 1 WHEEL ASSY 3.0 INCH (INCL ITEMS 56-58 & 62, 63)  26089 4 WHEEL SHAFT 58 26091 4 BEARING 59 26250 2 JAM NUT 60 26216 2 ADJUSTMENT SCREW 61 26155 2 BARREL NUT 62 00664 4 RETAINING RING 63 26025 2 WHEEL, 2.5 INCH 64 26249 2 SPHERICAL WASHER (2 PCS) 65 00719 2 LOCKNUT 66 26202 2 CAPSCREW 67 00272 2 DOWEL PIN 68 25082 1 FEED GEAR 69 25284 1 DU BEARING 70 10888 2 CAPSCREW 71 25167 1 KEY 72 05152 1 STANLEY DECAL (US MODELS ONLY) 73 26103 1 MAIN HOUSING 74 26215 1 CHASSIS WELDMENT 75 00007 2 BEARING 76 26045 2 ROLLER 77 26051 2 HANGER 78 03011 4 CAPSCREW 79 00635 2 KEY 80 26059 2 PIVOT PIN ASSY 81 00899 2 CAPSCREW 82 26831 2 WASHER 83 06989 4 O-RING, -018 •	ITEM	P/N	QTY	DESCRIPTION			
45							
46			-				
47							
48							
49         26810         1         SHAFT           50         25083         1         PINION GEAR           51         25283         1         ROLL PIN           52         03906         2         HEX NUT           53         02634         2         WASHER           54         00048         2         BEARING           55         26019         2         ROLLER           26087         1         WHEEL ASSY 2.5 INCH (INCL ITEMS 56-58 & 62,83)           56         03226         4         RETAINING RING           57         26042         4         WHEEL SHAFT           58         26091         4         BEARING           59         26250         2         JAM NUT           60         26216         2         ADJUSTMENT SCREW           61         26155         2         BARREL NUT           62         20646         4         RETAINING RING           63         26025         2         WHEEL, 2.5 INCH           64         26249         2         SPHERICAL WASHER (2 PCS)           65         00719         2         LOCKNUT           66         26202         <							
50         25083         1         PINION GEAR           51         25283         1         ROLL PIN           52         03906         2         HEX NUT           53         02634         2         WASHER           54         00048         2         BEARING           55         26019         2         ROLLER           26087         1         WHEEL ASSY 2.5 INCH (INCL ITEMS 56-58 & 62, 63)           26088         1         WHEEL ASSY 3.0 INCH (INCL ITEMS 56-58 & 62, 88)           56         03226         4         RETAINING RING           57         26042         4         WHEEL SHAFT           58         26091         4         BEARING           59         26250         2         JAM NUT           60         26216         2         ADJUSTMENT SCREW           61         26155         2         BARREL NUT           62         00664         4         RETAINING RING           63         26025         2         WHEEL, 2.5 INCH           64         26249         2         SPHERICAL WASHER (2 PCS)           65         00719         2         LOCKNUT           66         <	-						
51         25283         1         ROLL PIN           52         03906         2         HEX NUT           53         02634         2         WASHER           54         00048         2         BEARING           55         26019         2         ROLLER           26087         1         WHEEL ASSY 2.5 INCH (INCL ITEMS 56-58 & 62, 63)           26088         1         WHEEL ASSY 3.0 INCH (INCL ITEMS 56-58 & 62, 88)           56         03226         4         RETAINING RING           57         26042         4         WHEEL SHAFT           58         26091         4         BEARING           59         26250         2         JAM NUT           60         26216         2         ADJUSTMENT SCREW           61         26155         2         BARREL NUT           62         00664         4         RETAINING RING           63         26025         2         WHEEL, 2.5 INCH           64         26249         2         SPHERICAL WASHER (2 PCS)           65         00719         2         LOCKNUT           66         26202         2         CAPSCREW           67							
52         03906         2         HEX NUT           53         02634         2         WASHER           54         00048         2         BEARING           55         26019         2         ROLLER           26087         1         WHEEL ASSY 2.5 INCH (INCL ITEMS 56-58 & 62, 63)           26088         1         WHEEL ASSY 3.0 INCH (INCL ITEMS 56-58 & 62, 88)           56         03226         4         RETAINING RING           57         26042         4         WHEEL SHAFT           58         26091         4         BEARING           59         26250         2         JAM NUT           60         26216         2         ADJUSTMENT SCREW           61         26155         2         BARREL NUT           62         00664         4         RETAINING RING           63         26025         2         WHEEL, 2.5 INCH           64         26249         2         SPHERICAL WASHER (2 PCS)           65         00719         2         LOCKNUT           66         26202         2         CAPSCREW           67         00272         2         DOWEL PIN           68 <td< td=""><td></td><td></td><td></td><td></td></td<>							
53         02634         2         WASHER           54         00048         2         BEARING           55         26019         2         ROLLER           26087         1         WHEEL ASSY 2.5 INCH (INCL ITEMS 56-58 & 62,63)           26088         1         WHEEL ASSY 3.0 INCH (INCL ITEMS 56-58 & 62,88)           56         03226         4         RETAINING RING           57         26042         4         WHEEL SHAFT           58         26091         4         BEARING           59         26250         2         JAM NUT           60         26216         2         ADJUSTMENT SCREW           61         26155         2         BARREL NUT           62         20664         4         RETAINING RING           63         26025         2         WHEEL, 2.5 INCH           64         26249         2         SPHERICAL WASHER (2 PCS)           65         00719         2         LOCKNUT           66         26202         2         CAPSCREW           67         00272         2         DOWEL PIN           68         25082         1         FEED GEAR           69 <td< td=""><td></td><td></td><td></td><td></td></td<>							
54         00048         2         BEARING           55         26019         2         ROLLER           26087         1         WHEEL ASSY 2.5 INCH (INCL ITEMS 56-58 & 62,63)           26088         1         WHEEL ASSY 3.0 INCH (INCL ITEMS 56-58 & 62,88)           56         03226         4         RETAINING RING           57         26042         4         WHEEL SHAFT           58         26091         4         BEARING           59         26250         2         JAM NUT           60         26216         2         ADJUSTMENT SCREW           61         26155         2         BARREL NUT           62         00664         4         RETAINING RING           63         26025         2         WHEEL, 2.5 INCH           64         26249         2         SPHERICAL WASHER (2 PCS)           65         00719         2         LOCKNUT           66         26202         2         CAPSCREW           67         00272         2         DOWEL PIN           68         25881         1         FEED GEAR           69         25284         1         DU BEARING           70							
55         26019         2         ROLLER           26087         1         WHEEL ASSY 2.5 INCH (INCL ITEMS 56-58 & 62,63)           26088         1         WHEEL ASSY 3.0 INCH (INCL ITEMS 56-58 & 62,88)           56         03226         4         RETAINING RING           57         26042         4         WHEEL SHAFT           58         26091         4         BEARING           59         26250         2         JAM NUT           60         26216         2         ADJUSTMENT SCREW           61         26155         2         BARREL NUT           62         00664         4         RETAINING RING           63         26025         2         WHEEL, 2.5 INCH           64         26249         2         SPHERICAL WASHER (2 PCS)           65         00719         2         LOCKNUT           66         26202         2         CAPSCREW           67         00272         2         DOWEL PIN           68         25082         1         FEED GEAR           69         25284         1         DU BEARING           70         10888         2         CAPSCREW           71							
26087 1 WHEEL ASSY 2.5 INCH (INCL ITEMS 56-58 & 62,63)  26088 1 WHEEL ASSY 3.0 INCH (INCL ITEMS 56-58 & 62,88)  56 03226 4 RETAINING RING  57 26042 4 WHEEL SHAFT  58 26091 4 BEARING  59 26250 2 JAM NUT  60 26216 2 ADJUSTMENT SCREW  61 26155 2 BARREL NUT  62 00664 4 RETAINING RING  63 26025 2 WHEEL, 2.5 INCH  64 26249 2 SPHERICAL WASHER (2 PCS)  65 00719 2 LOCKNUT  66 26202 2 CAPSCREW  67 00272 2 DOWEL PIN  68 25082 1 FEED GEAR  69 25284 1 DU BEARING  70 10888 2 CAPSCREW  71 25167 1 KEY  72 05152 1 STANLEY DECAL (US MODELS ONLY)  73 26103 1 MAIN HOUSING  74 26215 1 CHASSIS WELDMENT  75 00007 2 BEARING  76 26045 2 ROLLER SHAFT  77 26051 2 HANGER  78 03011 4 CAPSCREW  79 00635 2 KEY  80 26089 4 O-RING, -018 •  84 26090 2 BUSHING							
56-58 & 62,63)           26088         1         WHEEL ASSY 3.0 INCH (INCL ITEMS 56-58 & 62, 88)           56         03226         4         RETAINING RING           57         26042         4         WHEEL SHAFT           58         26091         4         BEARING           59         26250         2         JAM NUT           60         26216         2         ADJUSTMENT SCREW           61         26155         2         BARREL NUT           62         00664         4         RETAINING RING           63         26025         2         WHEEL, 2.5 INCH           64         26249         2         SPHERICAL WASHER (2 PCS)           65         00719         2         LOCKNUT           66         26202         2         CAPSCREW           67         00272         2         DOWEL PIN           68         25082         1         FEED GEAR           69         25284         1         DU BEARING           70         10888         2         CAPSCREW           71         25167         1         KEY           72         05152         1         STANLEY DECAL (US MODELS ONL	55			-			
56-58 & 62, 88)  56 03226		20087	1				
57		26088	1				
58	56	03226	4	RETAINING RING			
59	57	26042	4	WHEEL SHAFT			
60	58	26091	4	BEARING			
61 26155 2 BARREL NUT 62 00664 4 RETAINING RING 63 26025 2 WHEEL, 2.5 INCH 64 26249 2 SPHERICAL WASHER (2 PCS) 65 00719 2 LOCKNUT 66 26202 2 CAPSCREW 67 00272 2 DOWEL PIN 68 25082 1 FEED GEAR 69 25284 1 DU BEARING 70 10888 2 CAPSCREW 71 25167 1 KEY 72 05152 1 STANLEY DECAL (US MODELS ONLY) 73 26103 1 MAIN HOUSING 74 26215 1 CHASSIS WELDMENT 75 00007 2 BEARING 76 26045 2 ROLLER SHAFT 77 26051 2 HANGER 78 03011 4 CAPSCREW 79 00635 2 KEY 80 26059 2 PIVOT PIN ASSY 81 00899 4 O-RING, -018 • 84 26090 2 BUSHING	59	26250	2	JAM NUT			
62 00664 4 RETAINING RING 63 26025 2 WHEEL, 2.5 INCH 64 26249 2 SPHERICAL WASHER (2 PCS) 65 00719 2 LOCKNUT 66 26202 2 CAPSCREW 67 00272 2 DOWEL PIN 68 25082 1 FEED GEAR 69 25284 1 DU BEARING 70 10888 2 CAPSCREW 71 25167 1 KEY 72 05152 1 STANLEY DECAL (US MODELS ONLY) 73 26103 1 MAIN HOUSING 74 26215 1 CHASSIS WELDMENT 75 00007 2 BEARING 76 26045 2 ROLLER SHAFT 77 26051 2 HANGER 78 03011 4 CAPSCREW 79 00635 2 KEY 80 26059 2 PIVOT PIN ASSY 81 00899 2 CAPSCREW 82 26831 2 WASHER 83 06989 4 O-RING, -018 •	60	26216	2	ADJUSTMENT SCREW			
63	61	26155	2	BARREL NUT			
64 26249 2 SPHERICAL WASHER (2 PCS) 65 00719 2 LOCKNUT 66 26202 2 CAPSCREW 67 00272 2 DOWEL PIN 68 25082 1 FEED GEAR 69 25284 1 DU BEARING 70 10888 2 CAPSCREW 71 25167 1 KEY 72 05152 1 STANLEY DECAL (US MODELS ONLY) 73 26103 1 MAIN HOUSING 74 26215 1 CHASSIS WELDMENT 75 00007 2 BEARING 76 26045 2 ROLLER SHAFT 77 26051 2 HANGER 78 03011 4 CAPSCREW 79 00635 2 KEY 80 26059 2 PIVOT PIN ASSY 81 00899 2 CAPSCREW 82 26831 2 WASHER 83 06989 4 O-RING, -018 •	62	00664	4	RETAINING RING			
65 00719 2 LOCKNUT 66 26202 2 CAPSCREW 67 00272 2 DOWEL PIN 68 25082 1 FEED GEAR 69 25284 1 DU BEARING 70 10888 2 CAPSCREW 71 25167 1 KEY 72 05152 1 STANLEY DECAL (US MODELS ONLY) 73 26103 1 MAIN HOUSING 74 26215 1 CHASSIS WELDMENT 75 00007 2 BEARING 76 26045 2 ROLLER SHAFT 77 26051 2 HANGER 78 03011 4 CAPSCREW 79 00635 2 KEY 80 26059 2 PIVOT PIN ASSY 81 00899 2 CAPSCREW 82 26831 2 WASHER 83 06989 4 O-RING, -018 • 84 26090 2 BUSHING	63	26025	2	WHEEL, 2.5 INCH			
66 26202 2 CAPSCREW 67 00272 2 DOWEL PIN 68 25082 1 FEED GEAR 69 25284 1 DU BEARING 70 10888 2 CAPSCREW 71 25167 1 KEY 72 05152 1 STANLEY DECAL (US MODELS ONLY) 73 26103 1 MAIN HOUSING 74 26215 1 CHASSIS WELDMENT 75 00007 2 BEARING 76 26045 2 ROLLER SHAFT 77 26051 2 HANGER 78 03011 4 CAPSCREW 79 00635 2 KEY 80 26059 2 PIVOT PIN ASSY 81 00899 2 CAPSCREW 82 26831 2 WASHER 83 06989 4 O-RING, -018 • 84 26090 2 BUSHING	64	26249	2	SPHERICAL WASHER (2 PCS)			
67 00272 2 DOWEL PIN 68 25082 1 FEED GEAR 69 25284 1 DU BEARING 70 10888 2 CAPSCREW 71 25167 1 KEY 72 05152 1 STANLEY DECAL (US MODELS ONLY) 73 26103 1 MAIN HOUSING 74 26215 1 CHASSIS WELDMENT 75 00007 2 BEARING 76 26045 2 ROLLER SHAFT 77 26051 2 HANGER 78 03011 4 CAPSCREW 79 00635 2 KEY 80 26059 2 PIVOT PIN ASSY 81 00899 2 CAPSCREW 82 26831 2 WASHER 83 06989 4 O-RING, -018 • 84 26090 2 BUSHING	65	00719	2	LOCKNUT			
68	66	26202	2	CAPSCREW			
69	67	00272	2	DOWEL PIN			
70	68	25082	1	FEED GEAR			
71	69	25284	1	DU BEARING			
72         05152         1         STANLEY DECAL (US MODELS ONLY)           73         26103         1         MAIN HOUSING           74         26215         1         CHASSIS WELDMENT           75         00007         2         BEARING           76         26045         2         ROLLER SHAFT           77         26051         2         HANGER           78         03011         4         CAPSCREW           79         00635         2         KEY           80         26059         2         PIVOT PIN ASSY           81         00899         2         CAPSCREW           82         26831         2         WASHER           83         06989         4         O-RING, -018 •           84         26090         2         BUSHING	70	10888	2	CAPSCREW			
73	71	25167	1	KEY			
74       26215       1       CHASSIS WELDMENT         75       00007       2       BEARING         76       26045       2       ROLLER SHAFT         77       26051       2       HANGER         78       03011       4       CAPSCREW         79       00635       2       KEY         80       26059       2       PIVOT PIN ASSY         81       00899       2       CAPSCREW         82       26831       2       WASHER         83       06989       4       O-RING, -018 •         84       26090       2       BUSHING	72	05152	1	STANLEY DECAL (US MODELS ONLY)			
75 00007 2 BEARING 76 26045 2 ROLLER SHAFT 77 26051 2 HANGER 78 03011 4 CAPSCREW 79 00635 2 KEY 80 26059 2 PIVOT PIN ASSY 81 00899 2 CAPSCREW 82 26831 2 WASHER 83 06989 4 O-RING, -018 • 84 26090 2 BUSHING	73	26103	1	,			
76	74	26215	1				
77 26051 2 HANGER  78 03011 4 CAPSCREW  79 00635 2 KEY  80 26059 2 PIVOT PIN ASSY  81 00899 2 CAPSCREW  82 26831 2 WASHER  83 06989 4 O-RING, -018 •  84 26090 2 BUSHING	75	00007	2	BEARING			
78 03011 4 CAPSCREW  79 00635 2 KEY  80 26059 2 PIVOT PIN ASSY  81 00899 2 CAPSCREW  82 26831 2 WASHER  83 06989 4 O-RING, -018 •  84 26090 2 BUSHING	76	26045	2	ROLLER SHAFT			
79 00635 2 KEY  80 26059 2 PIVOT PIN ASSY  81 00899 2 CAPSCREW  82 26831 2 WASHER  83 06989 4 O-RING, -018 •  84 26090 2 BUSHING	77	26051	2				
80       26059       2       PIVOT PIN ASSY         81       00899       2       CAPSCREW         82       26831       2       WASHER         83       06989       4       O-RING, -018 •         84       26090       2       BUSHING	78	03011	4	CAPSCREW			
81 00899 2 CAPSCREW  82 26831 2 WASHER  83 06989 4 O-RING, -018 •  84 26090 2 BUSHING	79	00635	2	KEY			
82 26831 2 WASHER 83 06989 4 O-RING, -018 • 84 26090 2 BUSHING	80	26059	2	PIVOT PIN ASSY			
83 06989 4 O-RING, -018 • 84 26090 2 BUSHING	81	00899	2	CAPSCREW			
84 26090 2 BUSHING	82	26831	2	WASHER			
	83	06989	4	O-RING, -018 •			
85 17668 2 ROLLPIN	84	26090	2	BUSHING			
TOLLI IIV	85	17668	2	ROLL PIN			



# FG10 PARTS LIST

ITEM	P/N	QTY	DESCRIPTION			
86	26056	2	WHEEL PIVOT			
87	26022	1	PIVOT SHAFT WHEEL			
88	26024	2	WHEEL, 3.3 INCH			
89	12175	4	WASHER			
90	26203	4	BALL BEARING			
91	26046	2	ROLLER			
92	26247	4	FLANGED BUSHING			
93	01606	2	O-RING, -120 •			
94	25277	1	WIPER •			
95	26211	1	GUARD WELDMENT (US MODELS ONLY)			
96	02525	3	CAPSCREW			
97	26248	3	LOCK WASHER			
98	26246	2	COUPLING NUT			
99	26021	1	PIVOT SHAFT WHEEL			
100	26098	1	HANDLE BAR ASSY			
101	27369	1	TRIGGER WELDMENT			
102	25292	1	ROLL PIN			
103	27370	1	SPACER			
104	27599	1	TORSION SPRING			
105	27366	1	LEVER WELDMENT			
106	18601	1	ROLL PIN			
107	25036	1	ON-OFF VALVE, O.C.			
108	25305	1	WIPER •			
109	25256	1	WASHER			
110	08017	2	O-RING, 7/8 X 1-1/16 X 3/32 -118 •			
111	18037	1	BALL JOINT STUD			
112	01605	4	O-RING, .644 X.818 X .087 -908 (INCL WITH ITEMS 114) •			
113	00936	2	ADAPTER			
114	03972	1	FEMALE COUPLING, PARKER			
	47436	1	FEMALE COUPLING, AEROQUIP			
115	03973	1	MALE COUPLING, PARKER			
	47437	1	MALE COUPLING, AEROQUIP			
116	18008	2	SPRING WASHER			
117	24819	1	SPRING			
118	17904	1	RETAINING RING			
119	00955	1	PIPE PLUG			
120	24289	1	PLUG			
121	28914	1	FLOW CONTROL (PRE-SET)			
122	01411	1	O-RING, .488 X .624 X .078 -906 •			
123	20145	1	STEEL BALL			
124	25005	1	VALVE BLOCK			
125	03787	1	GPM DECAL (US MODELS ONLY)			
	28811	1	INFORMATION PLAQUE (CE MODELS ONLY)			

ITEM	P/N	QTY	DESCRIPTION	
126	00144	2	CAPSCREW	
127	25842	1	WRENCH (TAPED TO FRAME)	
128	26142	1	EXTENSION BRACKET WELDMENT	
	26200	1	EXTENSION ASSY (INCL 52, 66, 89-90, & 129)	
129	11207	1	CIRCUIT "D" STICKER (CE MODELS ONLY)	
130	372155	2	DRIVE SCREW	
131	28409	1	COMPOSITE STICKER (CE MODELS ONLY)	
132	28322	1	CE STICKER (CE MODELS ONLY)	
133		-	NO ITEM	
134		-	NO ITEM	
135		-	NO ITEM	
136	29052	1	INNER GUARD (SEE SPARK GUARD & INNER	
			GUARD ILLUSTRATION PAGE FOLLOWING)	
137		-	NO ITEM	
138		-	NO ITEM	
139	29264	1	SERVICE RAM ASSY (NOT SHOWN)	
140	69772	1	SPARK GUARD (SEE SPARK GUARD & INNER GUARD ILLUSTRATION FOLLOWING)	
141	08080	2	HANDLE GRIP	
142	20647	1	104 SOUND POWER LEVEL DECAL	
	25942	1	SEAL KIT	

NOTE: Use Part Number and Part Name when ordering.



<sup>•</sup> Denotes part in seal kit

# **PG05 PARTS LIST**

ITEM	P/N	QTY	DESCRIPTION			
1	25294	2	HOSE ASSEBLY			
	25251	1	HYREVZ MOTOR ASSY (INCL ITEMS 4-15, 17, 18, & 20-23)			
2	01604	3	O-RING •			
3	25790	1	CAUTION STICKER			
4	00713	2	DOWEL PIN			
5	25718	2	DRIVE GEARS			
6	00178	1	O-RING, 2-1/8 X 2-1/4 X 1/16 70D •			
7	06316	4	BUSHING			
8	19905	1	FRONT BRG HSG ASSY (INCL ITEM 7)			
9	00669	1	QUAD RING •			
10	19884	1	SEAL GLAND			
11	00170	1	RETAINING RING			
12	00148	1	BEARING			
13	00166	1	RETAINING RING			
14	00120	8	CAPSCREW			
15	06846	1	GEAR HOUSING ASSY (INCL ITEMS 5 & 8)			
16	25610	1	RAILROAD HELP DESK DECAL			
17	73309	1	IDLER SHAFT KEYED			
19	29715	1	NAME TAG			
20	00171	1	O-RING, 11/16 X 13/16 X 1/16 70D •			
21	25166	1	MOTOR SHAFT			
22	06881	2	NEEDLE ROLLER			
23	00708	1	RETAINING RING			
24	25158	1	SPLINED COUPLING			
25	02688	10	CAPSCREW			
26	25099	1	RAM			
27	25291	1	NEEDLE ROLLER BEARING			
28	25289	2	RETAINING RING			
29	25290	1	INNER RING			
30	25281	1	RETAINING RING			
31	25279	1	BEARING			
32	27941	1	SPINDLE			
33	00772	2	WOODRUFF KEY			
34	25278	1	RETAINING RING			
35	25280	1	OIL SEAL, 1.250 X 2.047 X .299 •			
36	25419	1	DRIVE FLANGE			
37	01607	1	SET SCREW			
38	02179	1	NUT			
39	26809	1	HAND WHEEL			
40	25287	1	WIPER •			
ITEM	P/N	QTY	DESCRIPTION			

41	27748	1	BUSHING			
42	27749	1	HOUSING			
43	02900	1	ROLL PIN			
44	25285	1	ADJUSTABLE HANDLE			
45	25104	1	BACKUP WASHER			
46	25286	1	WIPER TYPE H •			
47	25293	1	SQUARE RING •			
48	25103	1	THRUST WASHER			
49	26810	1	SHAFT			
50	25083	1	PINION GEAR			
51	25283	1	ROLL PIN			
52	03906	2	HEX NUT			
53	02634	2	WASHER			
54	00048	2	BEARING			
55	26019	2	ROLLER			
56			NO ITEM			
57			NO ITEM			
58			NO ITEM			
59			NO ITEM			
60			NO ITEM			
61			NO ITEM			
62			NO ITEM			
63			NO ITEM			
64			NO ITEM			
65			NO ITEM			
66	26202	2	CAPSCREW			
67	00272	2	DOWEL PIN			
68	25082	1	FEED GEAR			
69	25284	1	DU BEARING			
70	10888	2	CAPSCREW			
71	25167	1	KEY			
72	05152	1	STANLEY DECAL			
73	26103	1	MAIN HOUSING			
74	26215	1	CHASSIS WELDMENT			
75	00007	2	BEARING			
76	26045	2	ROLLER SHAFT			
77	26051	2	HANGER			
78	03011	4	CAPSCREW			
79	00635	2	KEY			
80	26059	2	PIVOT PIN ASSY			
81	00899	2	CAPSCREW			
82	26831	2	WASHER			
83	06989	4	O-RING, -018 •			
84	26090	2	BUSHING			
ITEM	P/N	QTY	DESCRIPTION			
II⊑IVI	F/IN	עוז	DESCRIPTION			



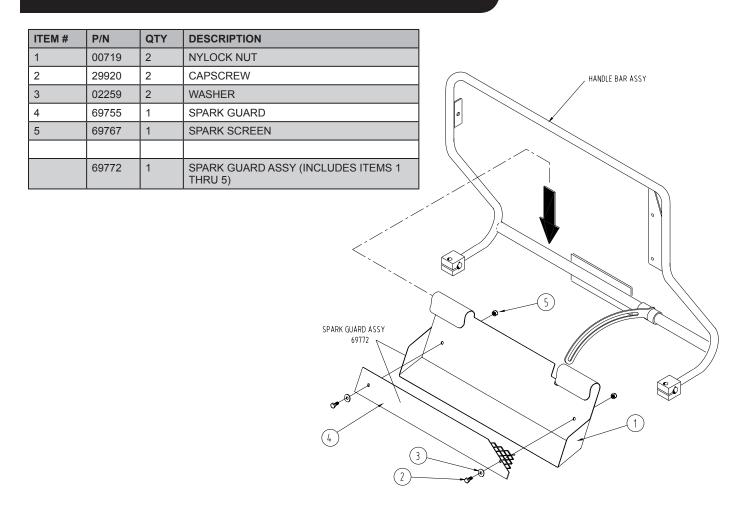
# **PG05 PARTS LIST**

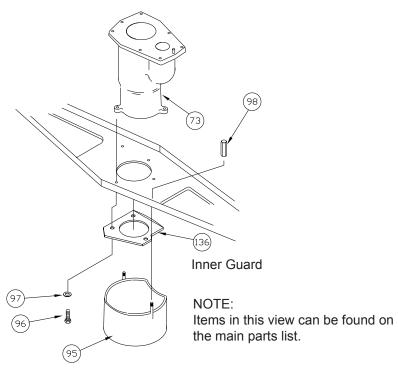
0.5	47000		DOLL DIN			
85	17668	2	ROLL PIN			
86	26056	2	WHEEL PIVOT			
87	26022	1	PIVOT SHAFT WHEEL			
88	10175		NO ITEM			
89	12175	4	WASHER			
90	26203	4	BALL BEARING			
91	26046	2	ROLLER			
92	26247	4	FLANGED BUSHING			
93	01606	2	O-RING, -120 •			
94	25277	1	WIPER •			
95	26211	1	GUARD WELDMENT			
96	02525	3	CAPSCREW			
97	26248	3	LOCK WASHER			
98	26246	2	COUPLING NUT			
99	26021	1	PIVOT SHAFT WHEEL			
00	26098	1	HANDLE BAR ASSY			
101	27369	1	TRIGGER WELDMENT			
102	25292	1	ROLL PIN			
103	27370	1	SPACER			
104	27599	1	TORSION SPRING			
105	27366	1	LEVER WELDMENT			
106	18601	1	ROLL PIN			
107	25036	1	ON-OFF VALVE, O.C.			
108	25305	1	WIPER •			
109	25256	1	WASHER			
110	08017	2	O-RING, 7/8 X 1-1/16 X 3/32 -118 •			
111	18037	1	BALL JOINT STUD			
112	01605	4	O-RING, .644 X.818 X .087 -908 (INCL WITH ITEMS 114) •			
113	00936	2	ADAPTER			
114	03972	1	FEMALE COUPLING, PARKER			
115	03973	1	MALE COUPLING, PARKER			
116	18008	2	SPRING WASHER			
117	24819	1	SPRING			
118	17904	1	RETAINING RING			
119	00955	1	PIPE PLUG			
120	24289	1	PLUG			
121	28914	1	FLOW CONTROL (PRE-SET)			
122	01411	1	O-RING, .488 X .624 X .078 -906 •			
123	20145	1	STEEL BALL			
124	25005	1	VALVE BLOCK			
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127	25842	1	WRENCH (TAPED TO FRAME)			

128	26142	1	EXTENSION BRACKET WELDMENT	
	26200	1	EXTENSION ASSY (INCL 52, 66, 89-90, & 129)	
129		-	NO ITEM	
130		-	NO ITEM	
131		-	NO ITEM	
132		-	NO ITEM	
133		-	NO ITEM	
134		-	NO ITEM	
135		-	NO ITEM	
136	29052	1	INNER GUARD (SEE SPARK GUARD & INNER GUARD ILLUSTRATION PAGE FOLLOWING)	
137		-	NO ITEM	
138		-	NO ITEM	
139	29264	1	SERVICE RAM ASSY (NOT SHOWN)	
140	69772	1	SPARK GUARD (SEE SPARK GUARD & INNER GUARD ILLUSTRATION PAGE FOLLOWING)	
141	08080	2	HANDLE GRIP	
	25942	1	SEAL KIT	



# **SPARK GUARD & INNER GUARD**







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