

**STANLEY®**

# PG10 HYDRAULIC PROFILE GRINDER



## USER MANUAL Safety, Operation and Maintenance



**CE UK  
CA**

© 2017 STANLEY  
Milwaukie, OR 97267  
U.S.A.  
65846 04/2024 Ver. 14

# DECLARATION OF CONFORMITY

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

**STANLEY**



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

**Vervier, Patrick**

Surname and First names/Familiennamen 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:

- Category: **Grinder, Hydraulic**  
Kategorie:  
Catégorie:  
Categoria:  
Categoria:
- Make/Marke/Marque/Marca/Marca **STANLEY**
- Type/Typ/Type/Tipo/Tipo: **PG1011001, PG1011001A**
- 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 conformità con

| Directive/Standards<br>Richtlinie/Standards<br>Directives/Normes<br>Directriz/Los Normas<br>Direttiva/Norme | No.<br>Nr<br>Numéro<br>No<br>n.                         | Approved body<br>Prüfung durch<br>Organisme agréé<br>Aprobado<br>Collaudato |
|---|---|---|
| EN ISO<br>EN ISO<br>EN ISO<br>Machinery Directive   | 13732-1:2008<br>3744:2010<br>28927-1:2019<br>2006/42/EC | Self<br>Self<br>Self<br>Self  |

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

Position/Position/Fonction/Cargo/Posizione Engineering Manager

DECLARATION OF CONFORMITY



I, the undersigned:

**Vervier, Patrick**

Surname and First names

hereby declare that the equipment specified hereunder:

- 1. Category: **Grinder, Hydraulic**
- 2. Make: **STANLEY**
- 3. Type: **PG1011001, PG1011001A**
- 4. Serial number of equipment: **All**

Has been manufactured in conformity with

| Directive/Standards                           | No.            | Approved body |
|---|----------------|---------------|
| EN ISO  | 13732-1:2008   | Self          |
| EN ISO  | 3744:2010      | Self          |
| EN ISO  | 28927-1:2019   | Self          |
| Supply of Machinery (Safety) Regulations 2008 | S.I. 2008/1597 | Self          |

- 5. Special Provisions: **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

Signature   
Position 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](http://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.

## ⚠ 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 certified dealer, call STANLEY at (800) 972-2647 and ask for a Customer Service Representative.



# 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.

PG10 Hydraulic 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, 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, clean or replace the grinding wheel 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 "OPERATION" on page 11.
- 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.
- **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 chemically-treated 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.

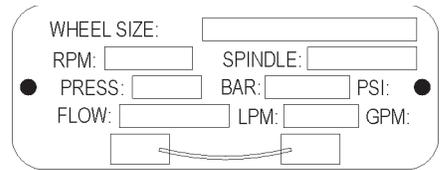
# TOOL STICKERS & TAGS



25357  
CAUTION DECAL



03787  
GPM DECAL (US)



28811  
INFORMATION PLAQUE (CE)



88347  
COMPOSITE DECAL (CE)



88355  
SOUND POWER LEVEL  
DECAL



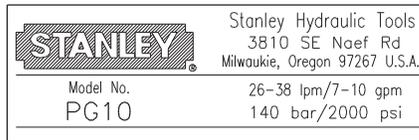
11207  
CIRCUIT TYPE D  
STICKER



25610  
RAILROAD HELP DESK DECAL



28322  
CE DECAL



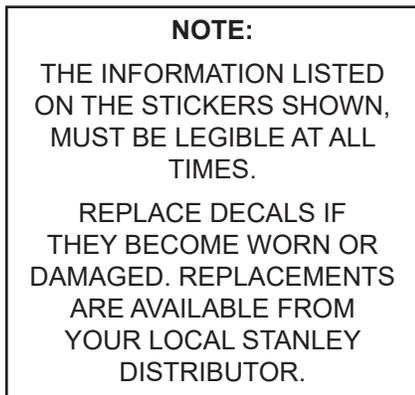
29714  
TOOL NAME TAG



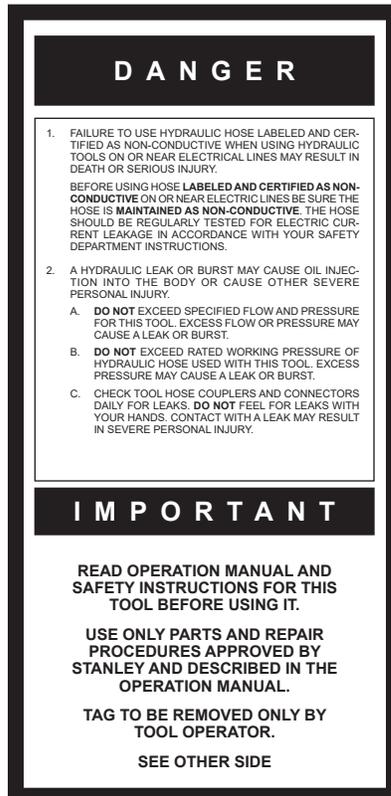
88354  
IMPORTER DECAL



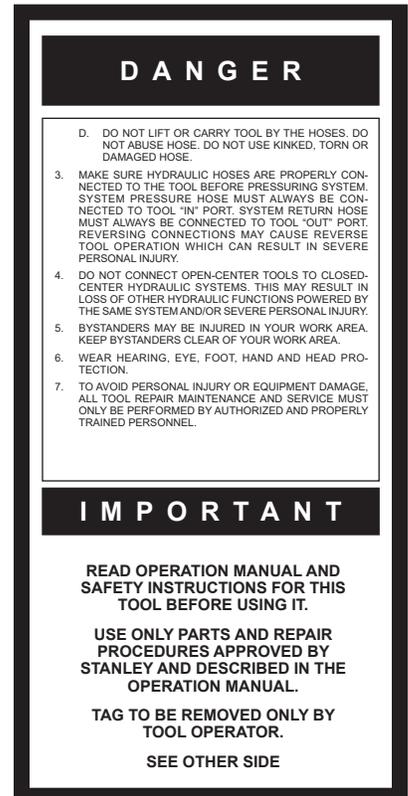
88723  
UKCA DECAL



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.



SAFETY TAG P/N 15875 (Shown smaller than 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.*

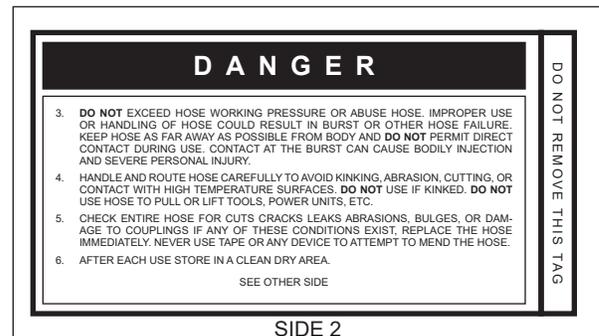
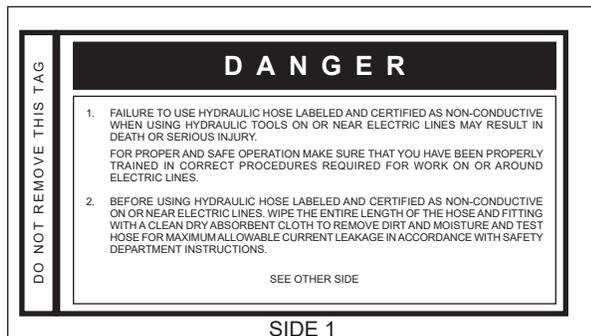
**Fabric-braided** (not certified or labeled non-conductive) — constructed of thermoplastic or synthetic rubber inner tube, synthetic fiber braid reinforcement, and weather resistant thermoplastic or synthetic rubber cover. *This hose is **not certified non-conductive** and must never be used near electrical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

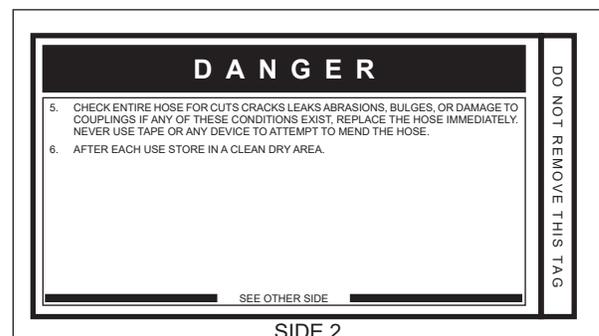
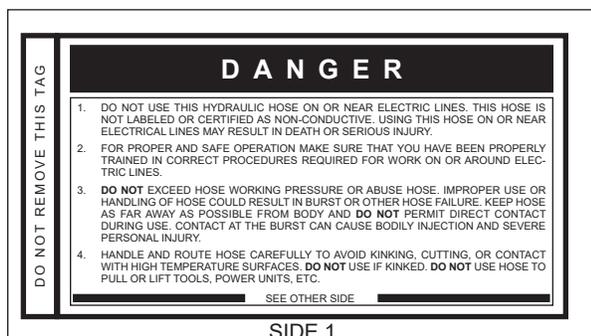
If the information on a tag is illegible because of wear or damage, replace the tag immediately. A new tag may be obtained from your STANLEY Distributor.

### 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.**

| Oil Flow   |       | Hose Lengths |           | Inside Diameter |      | USE<br>(Press/Return) | Min. Working Pressure |     |
|--|-------|--------------|-----------|-----------------|------|-----------------------|-----------------------|-----|
| GPM  | LPM   | FEET         | METERS    | INCH            | MM   |                       | PSI                   | BAR |
| <b>Certified Non-Conductive Hose - Fiber Braid - for Utility Bucket Trucks</b>             |       |              |           |                 |      |                       |                       |     |
| 4-9  | 15-34 | up to 10     | up to 3   | 3/8             | 10   | Both                  | 2250                  | 155 |
| <b>Conductive Hose - Wire Braid or Fiber Braid - DO NOT USE NEAR ELECTRICAL CONDUCTORS</b> |       |              |           |                 |      |                       |                       |     |
| 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     | 5/8             | 16   | Both                  | 2500                  | 175 |
| 5-10.5   | 19-40 | 100-300      | 30-90     | 5/8             | 16   | Pressure              | 2500                  | 175 |
| 10-13  | 38-49 | up to 50     | up to 15  | 3/4             | 19   | Return                | 2500                  | 175 |
| 10-13  | 38-49 | 51-100       | 15-30     | 5/8             | 16   | Both                  | 2500                  | 175 |
| 10-13  | 38-49 | 100-200      | 30-60     | 3/4             | 19   | Return                | 2500                  | 175 |
| 13-16  | 49-60 | up to 25     | up to 8   | 1               | 25.4 | Pressure              | 2500                  | 175 |
| 13-16  | 49-60 | 26-100       | 8-30      | 3/4             | 19   | Return                | 2500                  | 175 |
| 13-16  | 49-60 | 26-100       | 8-30      | 3/4             | 19   | Pressure              | 2500                  | 175 |
| 13-16  | 49-60 | 26-100       | 8-30      | 1               | 25.4 | Return                | 2500                  | 175 |

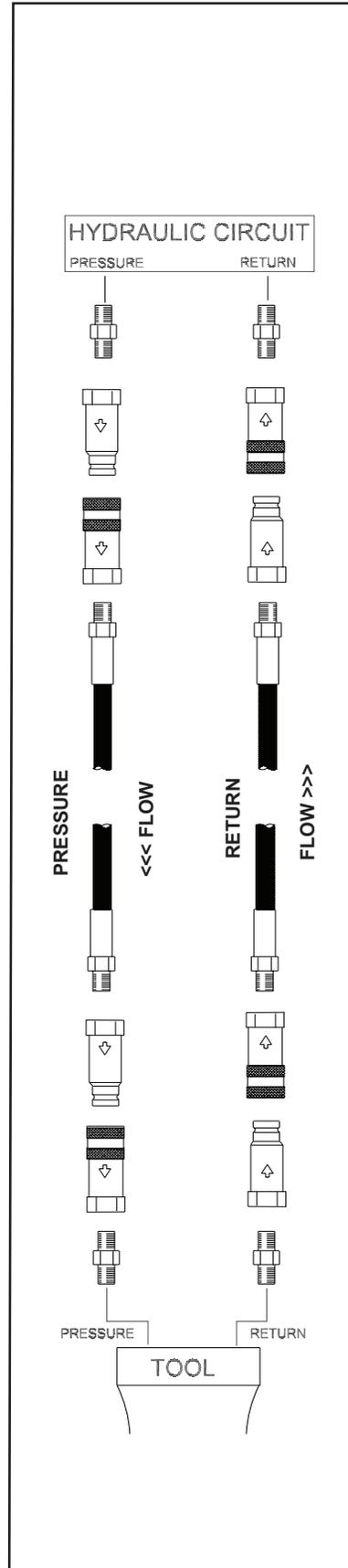


Figure 1. Typical Hose Connections

# HTMA / EHTMA REQUIREMENTS

## HTMA / EHTMA REQUIREMENTS

### TOOL TYPE

| HTMA<br>HYDRAULIC SYSTEM REQUIREMENTS   | TYPE I                                | TYPE II                               | TYPE RR                               | TYPE III                              |
|---|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| Flow range  | 4-6 GPM<br>(15-23 LPM)                | 7-9 GPM<br>(26-34 LPM)                | 9-10.5 GPM<br>(34-40 LPM)             | 11-13 GPM<br>(42-49 LPM)              |
| Nominal operating pressure<br>(At the power supply outlet)  | 1500 psi<br>(103 bar)                 | 1500 psi<br>(103 bar)                 | 1500 psi<br>(103 bar)                 | 1500 psi<br>(103 bar)                 |
| System relief valve setting<br>(At the power supply outlet)   | 2100-2250 psi<br>(145-155 bar)        | 2100-2250 psi<br>(145-155 bar)        | 2200-2300 psi<br>(152-159 bar)        | 2100-2250 psi<br>(145-155 bar)        |
| Maximum back pressure<br>(At tool end of the return hose)   | 250 psi<br>(17 bar)                   | 250 psi<br>(17 bar)                   | 250 psi<br>(17 bar)                   | 250 psi<br>(17 bar)                   |
| Measured at a max fluid viscosity of:<br>(At minimum operating temperature)   | 400 ssu*<br>(82 centistokes)          | 400 ssu*<br>(82 centistokes)          | 400 ssu*<br>(82 centistokes)          | 400 ssu*<br>(82 centistokes)          |
| Temperature: Sufficient heat rejection capacity to limit<br>maximum fluid temperature to:<br>(At maximum expected ambient temperature)  | 140° F<br>(60° C)                     | 140° F<br>(60° C)                     | 140° F<br>(60° C)                     | 140° F<br>(60° C)                     |
| Minimum cooling capacity at a temperature difference of<br>between ambient and fluid temps  | 3 hp<br>(2.24 kW)<br>40° F<br>(22° C) | 5 hp<br>(3.73 kW)<br>40° F<br>(22° C) | 6 hp<br>(5.22 kW)<br>40° F<br>(22° C) | 7 hp<br>(4.47 kW)<br>40° F<br>(22° C) |
| <b>Note:</b> 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<br>Sized for flow of at least:<br>(For cold temp startup and maximum dirt-holding capacity)   | 25 microns<br>30 GPM<br>(114 LPM)     |
| Hydraulic fluid, petroleum based (premium grade, anti-<br>wear, non-conductive) Viscosity (at minimum and maximum<br>operating temps)   | 100-400 ssu<br>(20-82<br>centistokes) | 100-400 ssu<br>(20-82<br>centistokes) | 100-400 ssu<br>(20-82<br>centistokes) | 100-400 ssu<br>(20-82<br>centistokes) |
| <b>Note:</b> 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<br>HYDRAULIC SYSTEM<br>REQUIREMENTS                   |  |  |  |  |  |
|---|---|---|--|---|---|
| Flow range  | 3.5-4.3 GPM<br>(13.5-16.5<br>LPM)   | 4.7-5.8 GPM<br>(18-22 LPM)  | 7.1-8.7 GPM<br>(27-33 LPM)   | 9.5-11.6 GPM<br>(36-44 LPM)   | 11.8-14.5 GPM<br>(45-55 LPM)  |
| Nominal operating pressure<br>(At the power supply outlet)  | 1870 psi<br>(129 bar)   | 1500 psi<br>(103 bar)   | 1500 psi<br>(103 bar)  | 1500 psi<br>(103 bar)   | 1500 psi<br>(103 bar)   |
| System relief valve setting<br>(At the power supply outlet) | 2495 psi<br>(172 bar)   | 2000 psi<br>(138 bar)   | 2000 psi<br>(138 bar)  | 2000 psi<br>(138 bar)   | 2000 psi<br>(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

1. Using a calibrated flow meter and pressure gauge, check that the hydraulic power source develops a flow of 7–10 GPM/26–38 LPM at 2200–2300 psi/152–159 bar.
2. Make certain the hydraulic power source is equipped with a relief valve set to open at 2100–2250 psi/145–155 bar minimum.
3. Check that the hydraulic circuit matches the tool for open-center (OC) or closed-center (CC) operation.

### CHECK TOOL

1. 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 PRE-OPERATION PROCEDURES BEFORE USING THIS PRODUCT.

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.

3. Using the wrench (89) 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.

## IMPORTANT

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.

### ADJUST WHEEL FLANGES TO FIT RAIL

The wheel flanges may be adjusted to fit the width of the rail by removing one or more of the washers.

### CONNECTING THE HOSES

1. Wipe all hose couplers with a clean lint-free cloth before making connections.
2. Connect the hoses from the hydraulic power source to the 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.
3. 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

1. Observe all safety precautions.
2. Always start the grinder with the grinding wheel away from the work surface by turning the hand wheel counter clockwise to raise the wheel.
3. Move the hydraulic circuit control valve to the **ON** position.
4. 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 hand wheel clockwise.
6. Grind a small amount of material at a time adjusting the grinding wheel as necessary by turning the hand wheel.

### 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 too viscous or too thick.

# PREVENTATIVE MAINTENANCE

1. 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.
2. 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.
3. Inspect the spindle and drive flange for signs of wear or damage. Run out 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.

# 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 °F/27 °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 too 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

|                                 |  |
|---------------------------------|--|
| Wheel Capacity .....            | 6 in. dia. × 3 in. thk × 5/8-11 threaded arbor (Type 6) U.S.A. |
| Pressure Range.....             | 1000–2000 psi/70–140 bar                                       |
| Maximum Back Pressure.....      | 250 psi/17 bar   |
| Flow Range .....                | HTMA Type RR, 7–10 GPM/26–38 LPM                               |
| Porting .....                   | -8 SAE O-ring  |
| Couplers .....                  | HTMA Flush Face Type Male & Female                             |
| Connect Size and Type .....     | 3/8 in. Male Pipe Adapter                                      |
| Hose Whips .....                | No   |
| Weight (with couplers).....     | 118 lb/53.5 kg   |
| Overall Length .....            | 44 inches/111.76 cm  |
| Overall Width .....             | 20 inches/50.8 cm  |
| Overall Height .....            | 30.5 inches/77.4 cm  |
| RPM.....                        | 4000   |
| Hyrevz™ Motor.....              | 24251  |
| Maximum Fluid Temperature ..... | 140 °F/60 °C   |
| Sound Power Level .....         | 102 dBA  |
| Sound Pressure Level (1m).....  | 93dBA  |
| Vibration Level.....            | 3.4m/sec <sup>2</sup>  |

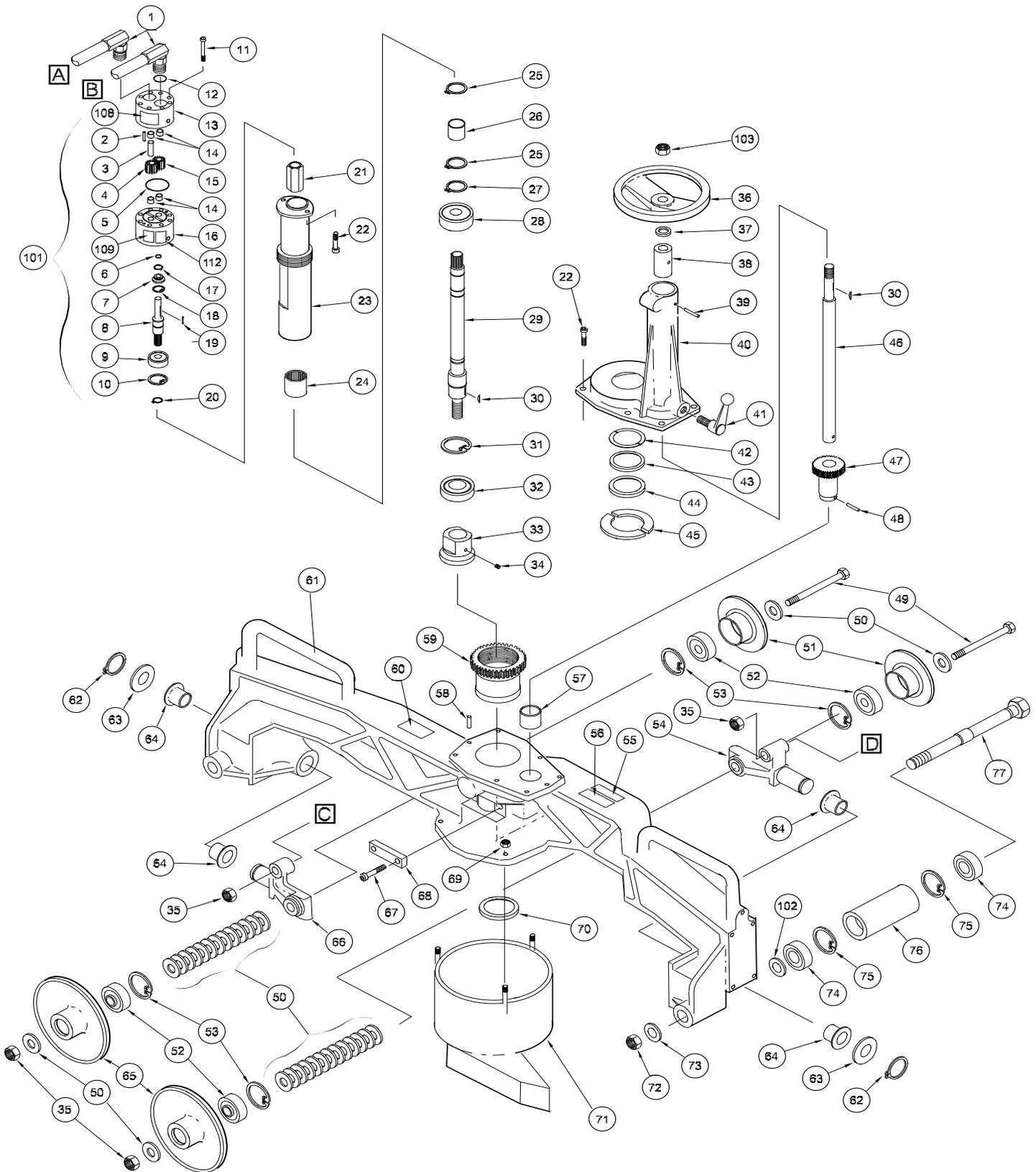
## SOUND AND VIBRATION DECLARATION

|  |                         |
|--|-------------------------|
| Test conducted on PG1011001.   |                         |
| Measured A-weighted sound power level, Lwa (ref. 1pW) in decibels  | 101.8 dBA               |
| Measured A-weighted sound pressure level, Lpa (ref. 20 µPa) at operator's position, in decibels  | 93.8 dBA                |
| Values determined according to noise test code given in EN ISO 15744, 11203 and 3744.<br>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)  | 1.7 m/sec <sup>2</sup>  |
| Measured vibration emission value: a (Non-Trigger Handle)  | 2.3 m/sec <sup>2</sup>  |
| Uncertainty: K   | 1.09 m/sec <sup>2</sup> |
| Values determined according to EN ISO 28927-1  |                         |

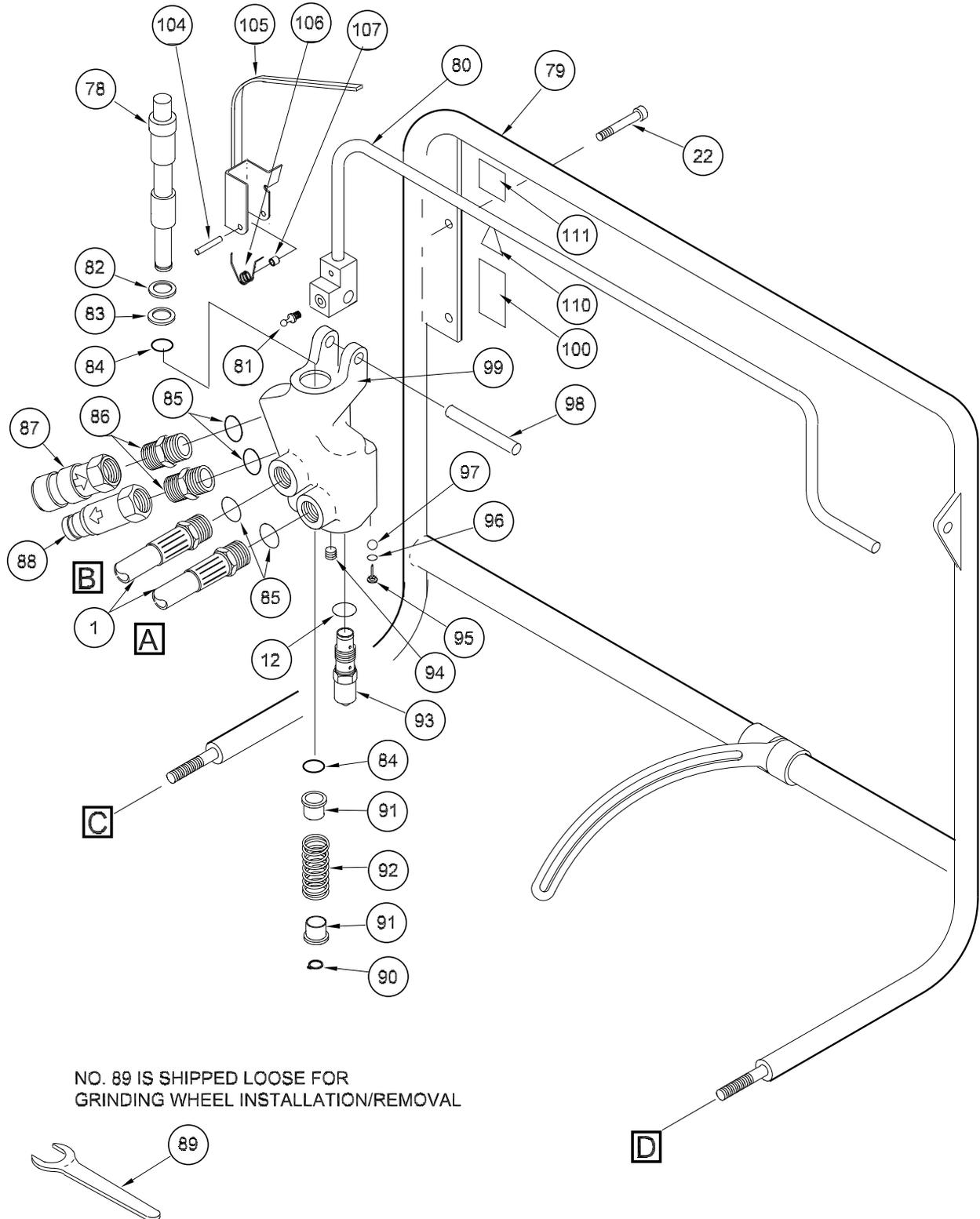
## ACCESSORIES

|                                       |       |
|---------------------------------------|-------|
| 6 × 3 × 5/8-11 Thread Cup Stone ..... | 28597 |
|---------------------------------------|-------|

# PG10 PARTS ILLUSTRATION



# PG10 PARTS ILLUSTRATION



# PG10 PARTS LIST

| ITEM | P/N   | QTY | DESCRIPTION                               |
|------|-------|-----|---|
| 1    | 25294 | 2   | HOSE ASSY                                 |
|      | 71064 | 2   | HOSE ASSY AEROQUIP USED ON MODEL PG10110B |
| 2    | 00713 | 2   | DOWEL PIN                                 |
| 3    | 73309 | 1   | IDLER SHAFT KEYED                         |
| 5    | 00178 | 1   | O-RING, 2-1/8 × 2-1/4 × 1/16 70D •        |
| 6    | 00669 | 1   | QUAD RING •                               |
| 7    | 19884 | 1   | SEAL GLAND                                |
| 8    | 25166 | 1   | MOTOR SHAFT                               |
| 9    | 00148 | 1   | BEARING                                   |
| 10   | 00166 | 1   | RETAINING RING                            |
| 11   | 00120 | 8   | CAPSCREW                                  |
| 12   | 01604 | 3   | O-RING (INCL WITH ITEM 1) •               |
| 13   | 06880 | 1   | GEAR HOUSING                              |
|      | 06846 | 1   | GEAR HSG ASSY (INCL ITEMS 2 & 14)         |
| 14   | 06316 | 4   | BUSHING                                   |
| 15   | 25718 | 2   | DRIVE GEAR                                |
| 16   | 19898 | 1   | FRONT BEARING HOUSING                     |
| -    | 19905 | 1   | FRONT BRG HSG ASSY (INCL ITEMS 14)        |
| 17   | 00171 | 1   | O-RING 11/16 × 13/16 × 1/16 70D •         |
| 18   | 00170 | 1   | RETAINING RING                            |
| 19   | 06881 | 2   | NEEDLE ROLLER                             |
| 20   | 00708 | 1   | RETAINING RING                            |
| 21   | 25158 | 1   | SPLINED COUPLING                          |
| 22   | 02688 | 10  | CAPSCREW                                  |
| 23   | 25099 | 1   | RAM                                       |
| 24   | 25291 | 1   | NEEDLE ROLLER BEARING                     |
| 25   | 25289 | 2   | RETAINING RING                            |
| 26   | 25290 | 1   | INNER RING                                |
| 27   | 25281 | 1   | RETAINING RING                            |
| 28   | 25279 | 1   | BEARING                                   |
| 29   | 27941 | 1   | SPINDLE                                   |
| 30   | 00772 | 2   | WOODRUF KEY                               |
| 31   | 25278 | 1   | RETAINING RING                            |
| 32   | 25280 | 1   | OIL SEAL, 1.250 × 2.047 × .299 •          |
| 33   | 25419 | 1   | DRIVE FLANGE                              |
| 34   | 01607 | 1   | SET SCREW                                 |
| 35   | 04374 | 4   | NUT                                       |
| 36   | 26809 | 1   | HAND WHEEL                                |
| 37   | 25287 | 1   | WIPER •                                   |
| 38   | 27748 | 1   | BUSHING                                   |
| 39   | 02900 | 1   | ROLL PIN                                  |
| 40   | 27749 | 1   | HOUSING                                   |
| 41   | 25285 | 1   | ADJUSTABLE HANDLE                         |
| 42   | 25104 | 1   | BACKUP WASHER                             |

| ITEM | P/N   | QTY | DESCRIPTION   |
|------|-------|-----|---|
| 43   | 25286 | 1   | WIPER TYPE H •  |
| 44   | 25293 | 1   | SQUARE RING •   |
| 45   | 25103 | 1   | THRUST WASHER   |
| 46   | 26810 | 1   | SHAFT   |
| 47   | 25083 | 1   | PINION GEAR   |
| 48   | 25283 | 1   | ROLL PIN  |
| 49   | 25304 | 2   | CAPSCREW  |
| 50   | 20876 | 30  | WASHER  |
| 51   | 25045 | 2   | FLANGE  |
| 52   | 25303 | 4   | BEARING   |
| 53   | 25302 | 4   | RETAINING RING  |
| 54   | 25111 | 1   | ARM L.H.  |
| 55   | 25610 | 1   | HELP DESK STICKER                                       |
| 56   | 25357 | 1   | CAUTION STICKER   |
| 57   | 25284 | 1   | BUSHING   |
| 58   | 00272 | 2   | DOWEL PIN   |
| 59   | 25082 | 1   | FEED GEAR   |
| 60   | 29714 | 1   | NAME TAG  |
| 61   | 25076 | 1   | FRAME   |
| 62   | 25297 | 2   | RETAINING RING  |
| 63   | 25296 | 2   | THRUST WASHER   |
| 64   | 25295 | 4   | FLANGED BUSHING   |
| 65   | 25046 | 2   | FLANGE  |
| 66   | 25126 | 1   | ARM R.H.  |
| 67   | 10888 | 2   | CAPSCREW  |
| 68   | 25167 | 1   | KEY   |
| 69   | 04353 | 3   | STOP NUT  |
| 70   | 25277 | 1   | WIPER •   |
| 71   | 25060 | 1   | GUARD WELDMENT  |
| 72   | 04984 | 2   | STOP NUT  |
| 73   | 25300 | 2   | WASHER  |
| 74   | 25299 | 4   | BEARING   |
| 75   | 25298 | 4   | RETAINING RING  |
| 76   | 25047 | 2   | ROLLER  |
| 77   | 25048 | 2   | SHAFT BOLT  |
| 78   | 25036 | 1   | ON-OFF SPOOL (O.C.)                                     |
| 79   | 25161 | 1   | HANDLE WELDMENT   |
| 80   | 28453 | 1   | TRIGGER ASSY  |
| 81   | 18037 | 1   | BALL JOINT STUD   |
| 82   | 25305 | 1   | WIPER •   |
| 83   | 25256 | 1   | WASHER •  |
| 84   | 08017 | 2   | O-RING 7/8 × 1-1/16 × 3/32 -118 •                       |
| 85   | 01605 | 4   | O-RING .644 × .818 × .087 -908 (INCL W/ ITEMS 1 & 86) • |
| 86   | 00936 | 2   | ADAPTER   |
| 87   | 03972 | 1   | FEMALE COUPLING, PARKER                                 |

# PG10 PARTS LIST

| ITEM | P/N   | QTY | DESCRIPTION                                |
|------|-------|-----|--|
|      | 81158 | 1   | FEMALE COUPLING, STUCCHI                   |
| 88   | 03973 | 1   | MALE COUPLING, PARKER                      |
|      | 81159 | 1   | MALE COUPLING, STUCCHI                     |
| 89   | 25842 | 1   | WRENCH (SHIPPED LOOSE)                     |
| 90   | 17904 | 1   | RETAINING RING                             |
| 91   | 18008 | 2   | SPRING WASHER                              |
| 92   | 24819 | 1   | SPRING                                     |
| 93   | 28914 | 1   | FLOW CONTROL (PRE-SET)                     |
| 94   | 00955 | 1   | PIPE PLUG                                  |
| 95   | 24289 | 1   | PLUG                                       |
| 96   | 01411 | 1   | O-RING, .488 × .624 × .078 -906 •          |
| 97   | 20145 | 1   | STEEL BALL                                 |
| 98   | 25292 | 1   | ROLL PIN                                   |
| 99   | 25005 | 1   | VALVE BLOCK                                |
| 100  | 03787 | 1   | GPM STICKER                                |
|      | 28811 | 1   | INFORMATION PLAQUE (CE ONLY)               |
|      | 21336 | 2   | POP RIVET FOR INFORMATION PLAQUE (CE ONLY) |
| 101  | 25251 | 1   | MOTOR ASSY (INCL 2 THRU 11, & 13 THRU 20)  |
| 102  | 25052 | 2   | WASHER                                     |
| 103  | 02179 | 1   | NUT  |
| 104  | 18601 | 1   | ROLL PIN                                   |
| 105  | 27366 | 1   | LEVER WELDMENT                             |
| 106  | 27599 | 1   | SPRING (MODIFIED)                          |
| 107  | 27370 | 1   | SPACER                                     |
| 108  | 88347 | 1   | DECAL, COMPOSITE SAFETY                    |
| 109  | 28322 | 1   | DECAL, CE                                  |
| 110  | 11207 | 1   | DECAL, CIRCUIT TYPE D                      |
| 111  | 88355 | 1   | DECAL, SOUND POWER LEVEL                   |
|      | 25942 | 1   | SEAL KIT                                   |
| 112  | 88723 | 1   | UKCA DECAL                                 |

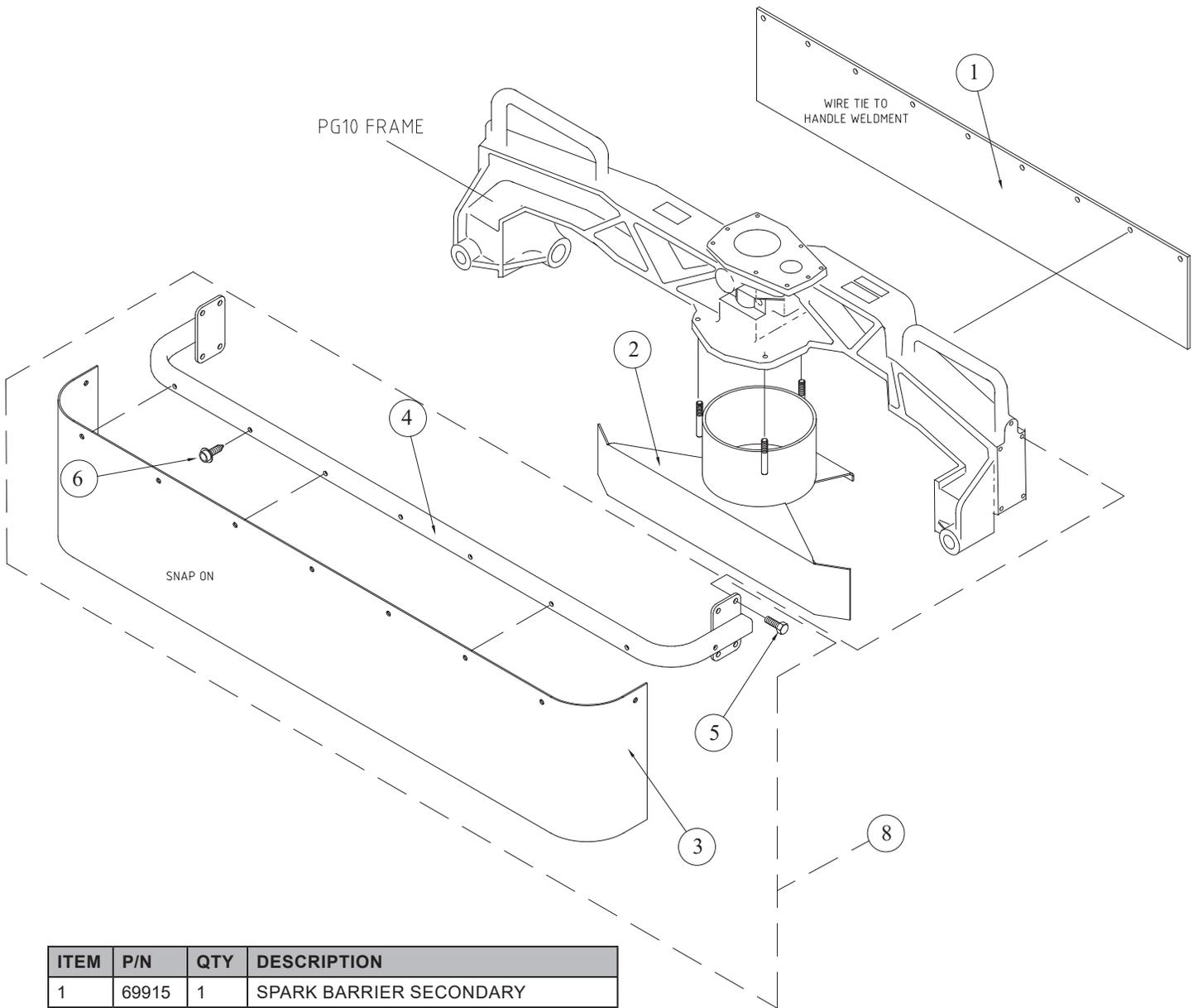
• Denotes part in seal kit

**NOTE:**

**Use Part Number and Part Name when ordering.**

# SPARK GUARD KIT

ITEM # 9  
 69820 SPARK GUARD KIT  
 (Includes Everything Pictured Except PG10 Frame)  
 (Includes Wire Ties & Hardware)



| ITEM | P/N   | QTY | DESCRIPTION                                  |
|------|-------|-----|--|
| 1    | 69915 | 1   | SPARK BARRIER SECONDARY                      |
| 2    | 69899 | 1   | GUARD WELDMENT                               |
| 3    | 65202 | 1   | SPARK BARRIER                                |
| 4    | 62402 | 1   | SPARK GUARD FRAME WELDMENT                   |
| 5    | 2072  | 8   | CAPSCREW                                     |
| 6    | 70743 | 9   | FABRIC SNAP                                  |
| 7    | 2395  | 9   | CABLE TIE (NOT PICTURED)                     |
| 8    | 69814 | 1   | SPARK GUARD ASSY (INCL ITEMS 3, 4, 5, AND 6) |
| 9    | 69820 | 1   | SPARK GUARD KIT (INCL ITEMS 1 THRU 7)        |





# **STANLEY®**

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