RD10 RAIL DRILL



Operation and Maintenance Manual

Focused on performance ™



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 maintenance or repairs.

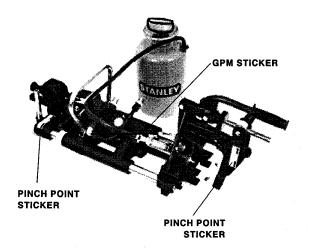
Supervising personnel should develop additional precautions relating to the specific work area and local safety regulations. If so, place the added precautions in the space provided on page 3.

GENERAL SAFETY PRECAUTIONS

The RD10 Rail Drill provides safe and dependable service if operated in accordance with the instructions given in this manual. Read and understand this manual and any stickers and tags attached to the tool and hose before operation. Failure to do so can result in personal injury or equipment damage.

- Operators must start in a work area without bystanders. Flying debris can cause serious injury.
- The operator must be familiar with all prohibited work areas such as excessive slopes and dangerous terrain conditions.
- Always wear safety equipment such as goggles, ear and head protection, leg protection, gloves, snug fitting clothing, and safety shoes at all times when operating the tool.
- Do not overreach. Maintain proper footing and balance at all times.
- Do not inspect or clean the tool while the hydraulic power source is connected. Accidental
 engagement of the tool can cause serious injury.
- Always connect hoses to the tool hose couplers before energizing the hydraulic power source. Make sure all hose connections are tight.
- Establish a training program for all operators to ensure safe operation.
- Do not operate the tool unless thoroughly trained or under the supervision of an instructor.
- Do not operate the tool at fluid 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.
- Never wear loose clothing that can get entangled in the working parts of the tool.
- To avoid personal injury or equipment damage, all tool repair, maintenance and service
 must only be performed by authorized and properly trained personnel.

TOOL STICKERS AND TAGS



The stickers and tags attached to the rail drill prior to shipment from the factory are shown on this page. The pressure and flow rate specified must never be exceeded. All stickers and tags must be read and understood prior to operating the tool.

The information listed on stickers and tags must be legible at all times. Always replace stickers that have become worn or damaged. Replacements are available from your local Stanley distributor.

CAUTION

5-10 GPM/20-38 LPM DO NOT EXCEED 2000 PSI/ 140 BAR

■ DO NOT EXCEED SPECIFIED FLOW ON PRESSURE. ■ USE CLOSED-CENTER TOOL ON CLOSED-CENTER SYSTEM. ■ USE OPEN-CENTER TOOL ON OPEN-CENTER SYSTEM. ■ USE OPEN-CENTER TOOL ON "AND OUT PORTS, IMPROVED HANDLING, USE OR MAINTENANCE OF "AND OUT PORTS, IMPROVED HANDLING, USE OR MAINTENANCE OF OWN TO THE TOOL OF THE SYSTEM SHOW THE STATE OF THE STATE OF CONTACT AT A LEAK OR BURST CAN CAUSE OIL INJECTIONS INTO THE BODY. ■ FAILURE TO OBSERVE THESE PRECAUTIONS CAN RESULT IN SERIOUS PERSONAL INJURY.

GPM/PRESSURE DANGER STICKER

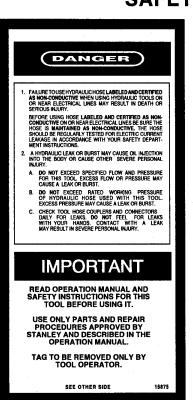
(WARNING)

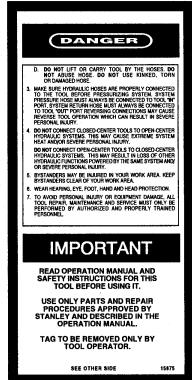
PINCH POINT STAY CLEAR OF ALL MOVING PARTS

PINCH POINT WARNING STICKER

SAFETY TAG

The safety tag at right is attached to the rail drill 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 rail drill when not in use.





SAFETY SYMBOLS

Safety symbols 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 safety symbol may appear on the tool. It is used to alert the operator of an action that could place him/her or others in a life threatening situation.



This safety symbol appears in these instructions to identify an action that could cause bodily injury to the operator or other personnel.

IMPORTANT

This safety symbol appears in these instructions to identify an action or condition that could result in damage to the tool or other equipment.

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

LOCAL SAFETY	REGUL	ATIONS	,	
Enter any local safety regu operator and maintenance	ter any local safety regulations here. Keep these instructions in an area accessible to the erator and maintenance personnel.			
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EQUIPMENT PROTECTION AND CARE

IMPORTANT

In addition to the Safety Precautions on pages 1 thru 3 of this manual, observe the following for equipment protection and care.

- Always store the tool in a clean, dry space, safe from damage or pilferage.
- Always keep critical tool markings, such as labels and stickers, legible.
- 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/175 bar.
- Always use hoses that have a fluid resistant inner surface and an abrasive resistant outer surface. Whenever near electrical conductors, use clean hose labeled and certified nonconductive.
- To avoid personal injury or equipment damage, all tool repair, maintenance and service must only be performed by authorized and properly trained personnel.
- 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 can result in damage to the quick couplers and cause overheating of the hydraulic system.
- Keep the rail drill clean and lubed, especially the slides and feed screw.

HYDRAULIC HOSE REQUIREMENTS

HOSE TYPES

Hydraulic hose types authorized for use with Stanley Hydraulic Tools are as follows:

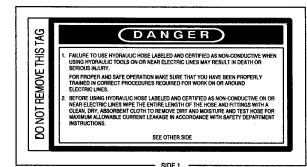
- 1 Labeled and certified non-conductive
- 2 Wire braided (conductive)
- 3 Fabric braided (not certified or labeled non-conductive)
- Hose I listed above is the only hose authorized for use near electrical conductors.
- Hoses 2 and 3 listed above are conductive and must never be used near electrical conductors.

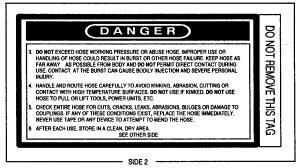
To help ensure your safety, the following DANGER tags are attached to all hoses purchased from Stanley Hydraulic Tools. DO NOT REMOVE THESE TAGS.

If the information on a tag is illegible because of wear or damage, replace the tag immediately. A new tag can be obtained at no charge from your Stanley distributor.

O CERTIFIED NON-CONDUCTIVE HOSE

This tag is attached to all certified and labeled non-conductive hose.

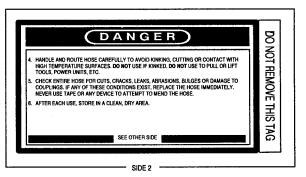




2 AND 3 WIRE- AND FABRIC-BRAIDED (NOT CERTIFIED OR LABELED NON-CONDUCTIVE)

This tag is attached to all conductive hose.





HOSE PRESSURE RATING

The rated working pressure of the hydraulic hose **must be equal to or higher than** the relief valve setting on the hydraulic system used to power the rail drill.

HYDRAULIC SYSTEM REQUIREMENTS

- The hydraulic system should provide a flow of 5-10 gpm/20-38 lpm at an operating pressure of 2000 psi/140 bar. Recommended relief valve setting is 2100 psi/145 bar.
- The hydraulic system should not have more than 250 psi/17 bar backpressure measured at the tool end of the operating hoses. The system conditions for measurement are at maximum fluid viscosity of 400 ssu/82 centistokes (minimum operating temperatures).
- The hydraulic system should have sufficient heat rejection capacity to limit the maximum fluid temperature to 140° F/60° C at the maximum expected ambient temperature. The recommended minimum cooling capacity is 5 hp/3.73 kW at a 40° F/4° C difference between ambient temperature and fluid temperature.
- The hydraulic system should have a minimum of 25 micron full-flow filtration. It is recommended that filter elements be sized for a flow of at least 30 gpm/114 lpm for cold temperature startup and maximum dirt holding capacity.
- The hydraulic fluid used should have a viscosity between 100 and 400 ssu/20 and 82 centistokes at the maximum and minimum expected operating temperatures. Hydraulic fluids of petroleum base with antiwear and non-conductive properties and viscosity indexes over 140 meet the recommended requirements over a wide range of operating temperatures.
- The recommended hose size is 0.500-inch/12 mm I.D. to 50 ft/15 m long and 0.625-inch/ 16 mm I.D. minimum up to 100 ft/30 m long.

OPERATION

PREOPERATION PROCEDURES

CHECK POWER SOURCE

- Using a calibrated flowmeter and pressure gauge, check that the hydraulic power source develops a flow of 5-10 gpm/20-38 lpm at 2000 psi/140 bar.
- Make certain that the hydraulic power source is equipped with a relief valve set to open at 2100-2250 psi/145-155 bar, maximum.
- Make certain that the power source return pressure does not exceed 250 psi/17 bar.

CONNECT HOSES

- 1. Wipe all hose couplers with a clean lintfree cloth before making connections.
- Connect the hoses from the hydraulic power source to the couplers on the rail drill or rail drill hoses. It is a good practice to connect the return hose first and disconnect it last to minimize or eliminate trapped pressure within the rail drill motor.

Note: If uncoupled hoses are left in the sun, pressure increase inside the hoses can make them difficult to connect. Whenever possible, connect the free ends of hoses together.

 Observe the "IN" and "OUT" port lettering on the valve block assembly to ensure that the hydraulic flow is in the proper direction. The "IN" port lettering indicates the inlet (pressure) side.

USING COOLANT

The RD10 rail drill is equipped with a separate coolant can assembly that is used to deliver coolant to the drill bit. To use the coolant can assembly with the rail drill:

1. If operating the rail drill at temperatures

above 32° F/0° C, fill the coolant can with ordinary tap water.

- 2. If operating the rail drill at temperatures below 32° F/0° C, fill the coolant can with a mixture of 50% ordinary tap water and 50% antifreeze.
- 3. Pressurize the coolant can using the carrying handle/pump.
- Connect the coolant can assembly to the rail drill using the supplied quick-disconnect coupler.

RAIL DRILL OPERATION

- 1. Observe all safety precautions.
- Make sure the rail drill is clean and properly lubed, especially the guide rods and feed screw.

Note: Check the slipping torque of the feed screw and make sure its between 14.5-18 ft lb/19.6-24.4 Nm. Refer to the RAIL DRILL ADJUSTMENTS section of this manual for further information.

- Make sure the drill bit you intend to use is sharp and the shank is not damaged.
- Install the appropriate drill bit into the two halves of the split chuck. Make sure the beaded portion of the drill bit engages the center slot in each of the chuck halves (figure 1).

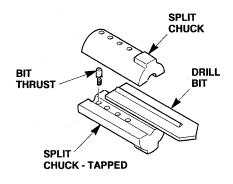


Figure 1. Installing a Drill Bit.

5. Place the split chuck (with drill bit) inside the spindle. Make sure the ends of the split chuck line up with the notches in the spindle (figure 2).

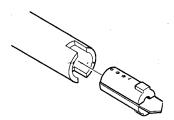


Figure 2. Installing the Split Chuck.

- Using a permanent ink marker, carefully mark the rail web where you intend to drill. A vertical and horizontal mark is required.
- Make sure the feed screw guard is in its fully raised position. If not, push forward on it to disengage it from the feed screw.
- Using the handle, slide the motor carriage toward the rail until it comes to a complete stop.
- 9. Line up the rail drill with the rail at the first drill position.
- Adjust the knob assembly to center the drill bit at the horizontal ink mark on the rail web.
- 11. Adjust the crutch weldment until the rail drill is perpendicular to the rail.
- 12. Prior to clamping the tightening lever assembly, make sure there is a 1/4-inch/6 mm space between adjustment yoke and stopplate of the operating lever.
- 13. Clamp the tightening lever assembly to the rail web. Make sure the height adjusting lever lines up with the vertical ink mark on the rail web.
- 14. Set the feed speed of the drill (FAST, MED, SLOW) that gives the best performance for the hardness of the rail and the type of drill bit being used.
- 15. Move the hydraulic circuit control valve to the "ON" position.

- 16. Open the coolant can assembly valve and then direct the modular hose towards the hole you intend to drill.
- Begin drilling by pushing down on the feed screw guard until it engages the feed screw.
- 18. To stop drilling, disengage the feed screw guard and then pull the motor carriage toward the feed screw guard until it comes to a complete stop.
- Close the coolant can assembly water valve.
- 20. Move the hydraulic circuit control valve to the "OFF" position.

REMOVING THE DRILL BIT

Removing a drill bit requires a drift, Stanley part number 22308, and a hammer. To remove a drill bit:

- Insert the drift through a cross hole in the spindle, positioning the flat of the drift against the end of the split chuck.
- Using a hammer, drive the drift into the spindle to loosen the split chuck from the spindle.
- 3. Remove the drill bit from the split chuck.

DRILLING IN HARDENED RAIL (CURVE RAIL)

When drilling in hardened rail (curve rail), attention must be paid to the drill RPM and feed speed. The feed speed lever must be put into the slow position. The drill should also be operated at 5 g.p.m. Attention must be paid to directing a generous amount of coolant to the bit using the coolant system included with the RD-10. Failure to follow this procedure can cause rapid dulling of the drill bit and may damage the RD-10.

RAIL DRILL ADJUSTMENTS

INTRODUCTION

The following two adjustments might be required due to normal wear of the feed screw and feed screw guard mechanisms.

ADJUSTING THE FEED SCREW SLIP CLUTCH

- Remove the split chuck (with drill bit) if installed. Refer to the OPERATION section of this manual for further information.
- Install a solid metal bar into the two slots at the front of the spindle. Turn the bar until the spindle is locked in place.
- Thread two nuts onto the end of the feed screw just enough to install a torque wrench. Tighten one nut against the other.
- 4. Using the torque wrench, carefully turn the feed screw to get an accurate torque reading. If the reading is between 14.5-18 ft lb/19.6-24.4 Nm, then no adjustment is required. If not, equally tighten (or loosen) the four 1/4-inch free wheel body lock nuts until the correct reading is attained.
- 5. Remove the torque wrench, two nuts, and bar.
- Replace the split chuck (with drill bit).
 Refer to the OPERATION section of this manual for further information.

ADJUSTING THE FEED SCREW AUTOMATIC ADVANCE

- Using the handle, slide the motor carriage toward the feed screw guard until it comes to a complete stop.
- Lower the feed screw guard to engage the feed screw. If properly engaged, the feed screw guard should move towards the operator approximately 1/4 inch/7 mm and lock into place. If it does not, manually turn the feed screw and re-engage the feed screw guard.
- 3. Loosen the 1/4-inch x 3/4-inch/6 mm capscrews securing the lower half shell weldment.
- 4. Loosen the 5/16-inch jam nut. Tighten the 5/16-inch set screw to bring zero clearance between the feed screw and the feed nut.
- 5. Tighten the 1/4-inch capscrews of the lower half shell weldment.
- Loosen the 5/16-inch set screw to allow approximately 0.010-inch clearance between set screw and the lower half shell weldment.
- 7. Remove the 5/16-inch capscrews securing the nut support weldment to the rear bridge. Remove the shims beneath the nut support weldment.

- Replace front capscrews allowing a 0.010-inch clearance between the nut support weldment and the head of the capscrew.
- Measure the maximum and minimum clearance between the nut support weldment and the rear bridge, while moving the feed screw up and down.
- 10. Loosen the 1/4-inch capscrews securing the lower half weldment. Remove front capscrews of the nut support weldment.
- 11. Insert shims between the nut support weldment and the rear bridge equal to the average maximum and minimum clearance measured.

- 12. Replace and tighten the front capscrews of the nut support weldment. Replace and tighten the rear capscrews of the nut support weldment.
- 13. Tighten the 5/16-inch set screw to allow a 0.004-0.008 inch maximum clearance between the feed screw and the lower half shell weldment.
- 14. Tighten the 5/16-inch jam nut.
- 15. Tighten the 1/4-inch capscrews of the lower half shell weldment.

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 rail drill, always check that the hydraulic power

source is supplying the correct hydraulic flow and pressure to the rail drill as listed in the table. Use a flow meter known to be accurate. Check the flow with the hydraulic fluid at a temperature of 80° F/27° C.

PROBLEM	CAUSE	REMEDY
Rail drill will not operate.	No hydraulic fluid flow or pressure.	Turn on power unit and check that 5-10 gpm/20-38 lpm at 2000 psi/140 bar is available at the rail drill.
	Defective hydraulic motor.	Repair or replace the hydraulic motor.
Spindle rotates, but drill does not advance.	Clutch slips. Feed screw not engaged.	Adjust the feed screw slip clutch and feed screw auto advance as described in the RAIL DRILL ADJUSTMENTS section of this manual.
Drilled holes not straight or aligned.	Split chuck incorrectly installed in the spindle.	Correctly install the split chuck. Refer to the OPERATION section of this manual.
Poor rail drill performance.	Hydraulic flow reversed.	Check that the hoses are correctly connected to the rail drill. The female coupler should be connected to the "IN" port. The return fluid must never flow through a reversing valve.
	Improper hydraulic fluid flow.	Check that 5-10 gpm/20-38 lpm at 2000 psi/140 bar is available at the rail drill.
Drill bit dulls quickly	Feed speed or drill rpm too fast.	Replace drill bit. Reduce feed speed.
		Replace drill bit. Reduce hydraulic flow.
	Using insufficient amount of coolant.	Replace drill bit. Increase flow of coolant.

SPECIFICATIONS

Bit Capacity	1-1/2-inch/38.10 mm
Bit Type	Spade Drill bits (3/8 inch Thick, Flat Bead)
Output Torque @ 2000 psi/140 bar	
Weight	100 lbs/45.3 kg
Height	16.44 inches/41.76 cm
Length	39.59 inches/100.3 cm
Width	13.3 inches/33.85 cm
Pressure, Maximum	2,000 psi/140 bar
Flow Range	5-10 gpm/20-38 lpm
Porting, Valve	1/2 SAE Female
Connect Size and Type	1/2 NPT Male

NOTE

Weights, dimensions, and operating specifications listed are subject to change without notice. Where specifications are critical to your application, please consult the factory.

ACCESSORIES

G	u	ı	D	E	S

Size of Rail	Hole Spacing	Part No.	
90 lb & 100 lb	2 11/16 x 5 1/2 x 5 1/2	Guide Template	22631
115 lb, 132 lb, 136 lb, 140 lb	3 1/2 x 6 x 6	Guide Template	22625

TEMPLATES

Size of Rail		Part No.	
90 lb	Template	22787	
115-119 lb	Template	22788	
132-136 lb	Template	22789	
140 lb	Template	72790	

WARRANTY

Hand held tools and their parts are warranted against defect in materials and workmanship for a period of 12 months from the date of purchase. Exceptions are cutting parts, steels, and other parts not manufactured by Stanley (such as impact mechanisms, alternators, regulators, and hoses), and parts subject to normal wear and tear (such as -o-rings, saw blades, and other parts that become worn through normal use of the tool).

The Warranty Registration Card packed with the tool must be filled out and returned to Stanley upon receipt of the tool.

Stanley reserves the right to replace or repair only those parts which under our examination prove to have been defective at the time of purchase.

Shipping charges are prepaid by the customer unless otherwise authorized by Stanley.

The warranty is void if maximum flow and pressure ratings are exceeded.

There is no other warranty expressed or implied.

SERVICE AND REPAIR NOTES

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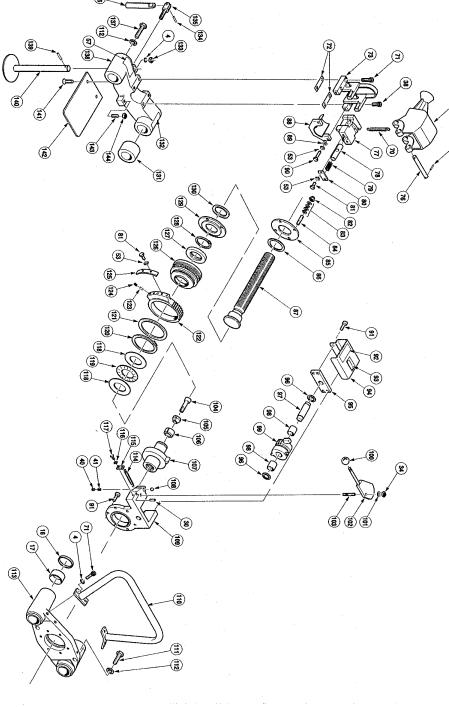
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Description

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3 O-Ring, 5/16 x 7/16 x 1/16 70D
1 Valve Block Assy (Incl Item C)



NOTE:	
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Part No. City. 22211	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decail 1 Stanley Sticker 1 000 x 2.1. 1 Cover 1 Plate 2 Du Bushing 1 Hashic Control Ball 1.0001 1 Washer, 5/16 Plated 2 Du Bushing 1 Hashic Control Ball 1.0001 1 Washer, 5/16 Plated 2 Du Bushing 1 Hashic Control Ball 1.0001 1 Washer, 5/16 Plated 2 Du Bushing Cam Weldment 2 Capscrew, Modified 2 Cone Grip 2 Duter Collet 1 Hub Adapter 1 Handle Weldment 2 Durfer Collet 1 Lockwasher #10 1 Capscrew, #10 -24 UNC x 2 Thrust Washer 1 Redaining Ring 1 Hack 2 Thrust Bearing 1 Hack 2 Bumper 1 Hall Bearing 1 Hall Hall Hall Hall Hall Hall Hall Hal
Part No. City. 22211	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decal 1 Speed Control Decal 1 Stanley Sticker 1 000 x 2.1 1 Cover 1 Plats 2 Plat Washer, 5/8 (Hardene 1 Gear Avie 2 DU Bushing 1 Hastic Control Beal 1 .000 I 1 Washer, 5/16 Plated 2 DU Bushing 2 Plats Control Beal 1 .000 I 1 Washer, 6/16 Plated 3 Du Bushing 1 Cone Grip 2 Cone Grip 1 Cone Grip
Part No. City. 22211 A/R Shim 22280 1 Null Support Weldment 22280 1 Feed Screw Guard 22205 2 Feed Null Say44 22206 2 Feed Null Say44 22206 2 Feed Null Say44 22206 2 Feed Null Say44 22207 22207 2 Feed Null Say44 22208 2 Feed Null Say44 22208 2 Feed Null Say44 22209 1 Feed Screw, 1/4-20 UNC x 20047 9 Feed Screw Feed Screw 22209 1 Feed Screw Feed Screw Feed Screw 22209 1 Feed Screw Feed Feed Feed Feed Feed Feed Feed Fe	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decail 1 Stanley Sticker 1 000 x 2.1. 1 Cover 1 Plate 2 Plat Weacher, 5/8 (Hardene Gear Weldment Plastic Control Ball 1.000) 1 Wassher, 5/16 Plated 2 Du Bushing 2 Plate Weacher, 5/16 Plated 3 Jud Gam Weldment 1 Hub Adapter 1 Spring 1 Bookwasher, 1/2 Adapter 1 Spring 1 Tab 2 Thrust Washer #10 1 Lockwasher #10 1 Capscrew, #10 -24 UNC x 2 Thrust Washer 1 Needle Thrust Bearing 1 Relaining Ring 1 Plate 1 Spring 1 Hacker Sector Gear 2 Pin 1 Spacer 1 Spacer 1 Spacer 1 Ball Bearing 1 Spacer 1 Ball Bearing 2 Ball Bearing 3 Spring 3 Spring 3 Spring 4 Ball Bearing 4 Ball Bearing 5 Ball Bearing 6 Ball Bearing 8 Ball Bearing 8 Ball Bearing 8 Ball Bearing 9 Ball Bearing 1 Ball Bea
Part No. City. 22211 A/R Shim 22285 1 Nul Support Weldment 22320 1 Feed Screw Guard 22206 2 Feed Nul 22226 2 Feed Nul 22226 1 Plumper 22225 1 Plate 22226 1 Plumper 22225 1 Plate 22226 1 Plumper 22226 1 Plumper 22226 2 Feed Nul 22227 2 Shop Washer, 1/4 22224 2 Shop Washer 22239 1 Lower Hal's Shell Weldmen 2224 2 Shell Stanley Sticker 1.000 x 2.0 2242 2 Capscrew, 1/4 - 20 LNC x 2254 1 Shop Washer 22239 1 Lower Hal's Shell Weldmen 2224 2 Shell Shell Weldmen 2226 2 Flat Washer, 1/8 (Hardene 2226 2 Flat Washer, 1/8 (Hardene 2226 2 Flat Washer, 5/8 (Hardene 2226 2 Flat Washer, 5/8 (Hardene 2227 2 Cone Stip 2238 1 Capscrew, Modified 2237 1	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decal 1 Speed Control Decal 1 Stanley Sticker 1 000 x 2.1 1 Cover 1 Plats 2 Flat Washer, 5/8 (Hardene 1 Gear Aviel 2 DU Bushing 1 Hastic Control Ball 1 .000 I 1 Washer, 5/16 Plated 2 DU Bushing 1 Hastic Control Ball 1 .000 I 1 Washer, 5/16 Plated 2 Du Bushing 1 Cone Grip 2 Cone Grip 1 Cone Gri
Part No. City. 22211 A/R Shim 22280 1 Null Support Weldment 22280 1 Feed Screw Guard 22202 2 Pin 22202 1 Feed Null 22205 1 Feed Null 22205 2 Pin 22205 1 Pin 22206 1 Pin 22207 1 Pin 22208 1 Pin 22209 1 Pin 22219 1 Coperer, 1/4 - 20 UNC x 20047 10 Capscrew, 1/4 - 20 UNC x 20047 10 Capscrew, 1/4 - 20 UNC x 20047 10 Capscrew, 1/4 - 20 UNC x 20048 1 Pin 22219 1 Pin 22	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decail 1 Stanley Sticker 1 000 x 2.1. 1 Cover 1 Plate 2 Flat Weacher, 5/8 (Hardene Gear Weldment Plastic Control Ball 1.000) 1 Washer, 5/16 Plated 2 Adjusting Cam Weldment Adjusting Cam Weldment Capscrew Modified 2 Cover Grip 2 Duter Collet 1 Hub Adapter 2 Bula Steel Ball 3 Support 4 Capscrew, 1/2 -13 UNC x 2 Export 5 Spring 1 Tab 1 Lockwasher #10 1 Lockwasher #10 1 Capscrew, #10 -24 UNC x 2 Thrust Washer 1 Redaining Ring 1 Rachet Sector Gear 2 Pin 1 Spring 1 Flate 1 Spring 1 Habdening Ring 1 Spring 1 Spring 1 Flate 1 Spacer 1 Spacer 1 Spacer 1 Ball Bearing 1 Decail Washer 2 Bumper 2 Bumper 2 Bumper 3 Decail Washer 3 Decail Washer 3 Decail Washer 4 Decail Washer 5 Decail Washer 6 Decail Washer 6 Decail Washer 7 Decail Washer 7 Decail Washer
Part No. City. 22211 A/R Shim 22285 1 Nul Support Weldment 22286 1 Feed Screw Guard 22272 4 Feed Nul 22286 2 Feed Nul 22286 2 Feed Nul 22286 1 Feed Nul 22286 2 Feed Nul 22286 2 Feed Nul 22287 1 Feed Screw 22287 1 Feed Screw 22288 1 Feed Screw 22288 1 Feed Screw 22289 1 Capserew, 1/4 - 20 UNC x 2254 2 Fining Washer, 1/4 22224 4 Stud 22289 1 Capserew, 1/4 - 20 UNC x 2254 1 Stud 22287 1 Feed Screw 22288 1 Capserew, 1/4 - 20 UNC x 2254 2 Feed Screw 22289 1 Capserew, 1/4 - 20 UNC x 2254 1 Spring Washer, 1/8 22204 2 Feed Screw 22296 2 Feed Screw 22296 2 Feed Screw 22297 1 Capserew, 1/4 - 20 UNC x 2254 1 Gear Avte 2298 1 Capserew, 1/4 - 20 UNC x 2254 1 Gear Avte 2298 1 Capserew, 1/4 - 20 UNC x 2254 1 Gear Avte 2298 1 Capserew, 1/2 - 30 UNC x 2492 2 Capserew, 1/2 - 30 UNC x 2548 2 Capserew, Modified 2227 1 Capserew, Modified 2237 1 Capserew, 1/2 - 30 UNC x 2469 1 Adapter 22317 1 Spring 2246 1 Capserew, 1/2 - 30 UNC x 2469 2 Thrust Washer, 1/2 2469 1 Capserew, 1/2 - 30 UNC x 2469 2 Thrust Washer 2239 3 Fin 2426 1 Reaching Ring 2426 1 Reaching Ring 2426 1 Brake Washer 2427 2 Eumoer 2427 2 Eumoer 2428 1 Spring 2428 1 Feet 25276 1 Brake Washer 25276 1 Brake Washer 25276 2 Burnoer 25277 2 Burnoer 25276 2 Burnoer 25276 2 Burnoer 25277 2 Burnoer 25277 2 Burnoer 25277 2 Burnoer 25277 3 Burnoer 25278 2 Burnoer 25279 2 Burnoer 25270 2	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decal 1 Stanley Slicker 1 000 x 2.1 1 Cover 1 Plate 1 Capscrew, 1/4 -20 UNC x 1 Cover 1 Plate 2 Dut Bushing 1 Ratchaf Cear Weldmant 2 Dut Bushing 2 Dut Bushing 2 Plastic Control Ball 1.0001 1 Washer, 9/16 Plated 2 Dut Bushing 2 Dut Bushing 2 Duter Collet 1 Adapter 1 Hub Adapter 1 Handle Wesher 2 Lockwasher #10 2 Lockwasher, 1/2 3 Punder 3 Ping 1 Tab 1 Lockwasher, 1/2 2 Pringt Wesher 2 Plate Body 3 Spring 4 Ratcher Sector Gear 5 Ping 5 Plate 1
Part No. City. 22211 A/R Shim 22280 1 Null Support Weldment 22280 1 Feed Screw Guard 22207 1 Feed Screw Guard 22208 1 Feed Null Support 22208 1 Feed Null Support 22208 1 Feed Null Support 22209 1 Feed Screw 22209 1 Feed Washer, 1/4 - 20 UNC x 22548 1 Stanley Sticker 1,000 x 2.0 2248 1 Feed Screw Mediment 22209 1 Feed Washer, 5/16 Fleted 22209 1 Feed Wester 22209 1 Feed Weste	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decail 1 Sanley Sticker 1 000 x 2.1. 1 Cover 1 Plate 2 Flat Weather, 5/8 (Hardene Gear Aviet Plate 2 Plate Basic Control Ball 1.0001 1 Washer, 5/16 Plated 1 Adjusting Cam Weldment 1 Stud 1 Capscrew, Modified 2 Outer Collet 1 Hub Adapter 1 Handle weldment 2 Capscrew, 1/2 -13 UNC x 2 Thrust Washer 1 Lockwasher 1/2 2 Adapter 1 Redel Thrust Bearing 1 Retaining Ring 1 Hate 1 Washer 1 Hall Bearing 1 Flate 1 Spacer 1 Ball Bearing 1 Hall Spacer 1 Brake Washer
Part No. City. 22211 A/R Shim 22280 1 Nul Support Weldment 22280 1 Feed Screw Guard 22207 2 Repl Pin, 1/8 x/3/4 22206 2 Feed Nul 22286 2 Feed Nul 22286 1 Feed Nul 22286 2 Feed Nul 22286 2 Feed Nul 22286 2 Feed Nul 22287 1 Feed Screw 22287 1 Feed Screw 22288 1 Locknut; 1/4 22224 4 Stud 22289 1 Locknut; 1/4 22224 2 Stud 22289 1 Locknut; 1/4 22224 3 Stud 22289 1 Locknut; 1/4 22224 1 Stud 22289 1 Locknut; 1/4 22224 2 Stud 22289 1 Locknut; 1/4 22224 2 Stud 22289 1 Locknut; 1/4 22291 1 Feed Screw 22298 1 Locknut; 1/4 22291 1 Feed Screw 22204 2 Featwasher; 1/6 22304 2 Featwasher; 1/6 (Hardene 2204 2 Featwasher; 1/6 (Hardene 2207 2 Featwasher; 1/6 (Hardene) 2207 2 Featwasher; 1/6 (Hardene) 2208 1 Lockwasher; 1/6 (Hardene) 2208 1 Lockwasher; 1/6 (Hardene) 2209 1 Featwasher; 1/6 (Hardene) 2209 1 Featwasher; 1/6 (Hardene) 2209 1 Hardene Weldment 2209 1 Hardene Weldment 2209 1 Copecrew, 1/6 -13 UNC x 2209 1 Hardene Weldment 2209 1	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decal 1 Sanley Slicker 1 000 x 2.1 1 Cover 1 Platis 1 Stanley Slicker 1 000 x 2.1 1 Cover 1 Platis 2 Platis Control Ball 1 0001 1 Wesher, 5/16 Plated 2 Dul Bushing 1 Platis Control Ball 1 0001 1 Wesher, 5/16 Plated 2 Dul Sushing 2 Platis Control Ball 1 0001 1 Wesher, 5/16 Plated 2 Dul Bushing 2 Platis Control Ball 1 0001 1 Capscrew, Modified 1 Cohe Grip 1 Outer Collet 1 Hub Adapter 1 Hub Adapter 1 Support 2 Experiew, 1/2 -13 UNC x 2 Experiew, 1/2 -13 UNC x 3 Dring 1 Tab 1 Cokwasher, 1/2 2 Thust Washer 2 Thust Washer 2 Thust Washer 3 Pin 1 Rachiel Sector Gear 3 Pin 1 Rachiel Body 1 Platis Baning 1 Plating Ring 1 Platis Platis Platis 1 Spring 1 Platis Platis 1 Spring 1 Platis Platis Platis Platis 1 Spring 1 Platis
Part No. City. 22211 A/R Shim 22226 1 Null Support Weldment 22232 1 Feed Screw Guard 22232 1 Feed Screw, 1/4-20 UNC x 22235 1 Plunger 22235 1 Spring 22235 1 Spring 22235 1 Spring Washer, 1/4 22245 1 Capscrew, 1/4-20 UNC x 2235 1 Spring Washer 22236 1 Spring Washer 22237 1 Stop Washer 22238 1 Lower Hall Skell Weldmen 2224 4 Stud 2224 1 Capscrew, 1/4-20 UNC x 2246 1 Capscrew, 1/4-20 UNC x 2246 2 Capscrew, 1/4-20 UNC x 2248 2 Capscrew, 1/4-20 UNC x 2248 1 Cover 22291 1 Plate 22391 1 Cover 22492 1 Cover 22492 1 Cover 22493 1 Feet Washer, 5/8 (Harden 22494 1 Capscrew, Modified 22277 1 Core Grip 22	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decal 1 Sanley Sticker 1 000 x 2.1. 1 Cover 1 Plate 2 Flat Weather, 5/8 (Hardene 1 Gear Arie 2 Platic Control Ball 1.000) 1 Wassher, 5/16 Plated 1 Adjusting Cam Weldment 1 Plastic Control Ball 1.000 1 Wassher, 5/16 Plated 1 Adjusting Cam Weldment 1 Capscrew, Modified 1 Cone Grip 1 Hub Adapter 1 Hub Adapter 1 Hub Adapter 1 Rapport 1 Lockwasher, 1/2 1 Adapter 1 Platic Thrust Bearing 1 Raphort
Part No. City. 22211 A/R Shim 22280 1 Nul Support Weldment 22380 1 Feed Screw Guard 22206 2 Feed Nul 22206 2 Feed Nul 22206 2 Feed Nul 22206 1 Feed Nul 22206 2 Feed Nul 22207 1 Feed Screw 22207 1 Feed Nul 22208 1 Feed Screw 22208 1 Feed Screw 22209 1 Feed Screw 22215 1 Stop Washer 22209 1 Feed Screw 22216 1 Spring Washer, 1/4 22224 4 Stud 22217 1 Stop Washer 22209 2 Faltwasher, 1/4 22224 1 Stud 22216 1 Spring Washer 22209 2 Feed Screw 22209 2 Fe	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decal 1 Speed Control Decal 1 Stanley Sticker 1:000 x 2.1 1 Cover 1 Plats 1 Stanley Sticker 1:000 x 2.1 1 Cover 1 Plats 2 Plat Washer, 5/8 (Hardene 1 Gast Axle 1 Platsit: Control Ball 1:000 1 Wesher, 5/16 Plated 2 DU Bushing 1 Platsit: Control Ball 1:000 1 Wesher, 5/16 Plated 2 Du Bushing 2 Platsit: Control Ball 1:000 1 Wesher, 5/16 Plated 2 Du Bushing 2 Platsit: Control Ball 1:000 1 Capscrew, Modified 1 Cohe Grip 1 Outer Collet 1 Handle Weldment 2 Support 2 Support 2 Capscrew, 1/2 - 13 UNC x 4 Capscrew, 1/2 - 13 UNC x 5 Lockwasher, 1/2 1 Adapter 2 Thust Washer 2 Thust Washer 2 Thust Washer 3 Pin 3 Spring 4 Retaining Ring 4 Platsit 5 Tree Wheel Body 1 Platsit 6 Platsit 7 Tree Wheel Body 1 Ball Bearing 1 Platsit 7 Platsit 7 Platsit 7 Platsit 8 Platsit 7 Platsit 8 Platsit 9 P
Part No. City. 22211 A/R Shim 22280 1 Null Support Weldment 22280 1 Feed Screw Guard 22207 1 Feed Screw Guard 22208 1 Feed Screw, 1/4 - 20 UNC x 22208 1 Feed Null 22208 1 Feed Screw 22209 1 Feed Washer, 1/4 22219 1 Feed Washer 22219 1 Feed Washer 22219 1 Feed Washer 22210 1 Feed Washer 22211 1 Feed	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decail 1 Sanley Sticker 1 000 x 2.1. 1 Stanley Sticker 1 000 x 2.1. 1 Cover 1 Plate 2 Flat Weacher, 5/8 (Hardene Gear Weldment Plastic Control Ball 1.000) 1 Wassher, 5/16 Plated Adjusting Cam Weldment Capscrew. Modified Capscrew. Modified Capscrew. Modified Capscrew. 1/2 - 13 UNC x Lookwassher, 1/2 Adapter 1/2 Adapte
Part No. City. 22211 AlR Shim 22280 1 Nul Support Weldment 22280 1 Feed Screw Guard 22272 4 Feed Nul 22286 2 Feed Nul 22286 1 Feed Nul 22286 1 Feed Nul 22286 2 Feed Nul 22286 1 Feed Nul 22286 2 Feed Nul 22286 2 Feed Nul 22286 1 Feed Screw 22286 1 Feed Screw 22286 2 Feed Nul 22287 1 Stop Washer 22288 1 Lower Hal Shell Weldmen 22289 1 Lower Hal Shell Weldmen 22289 1 Lower Hal Shell Weldmen 22289 1 Lower Hal Shell Weldmen 22280 2 Falt Washer, 1/4 22224 4 Stud 22289 1 Lower Hal Shell Weldmen 22281 1 Stop Washer 22289 1 Lower Hal Shell Weldmen 22291 2 Falt Washer, 1/6 (Hardene 22204 2 Falt Washer, 5/8 (Hardene 22304 2 Falt Washer, 5/8 (Hardene 22304 2 Falt Washer, 5/8 (Hardene 22305 2 Falt Washer, 5/8 (Hardene 22306 1 Falt Washer, 5/8 (Hardene 22307 1 Falt Masher 22317 1 Support 22317 1 Handle Weldment 22317 1 Support 22317 1 Handle Weldment 22317 1 Support 22317 1 Handle Weldment 22317 1 Handle Weldment 22317 1 Support 22317 1 Handle Weldment 22317 1 Support 22317 1 Handle Weldment 22317 1 Handle Weldment 22317 1 Handle Weldment 22317 1 Support 22317 1 Handle Weldment 22317 1 Handle Weldment 22317 1 Handle Weldment 22317 1 Support 22318 1 Handle Weldment 22319 1 Handle Weldment 23319 1 Handle Weldment 23319 1 Handle Weldment 23319 1 Handle Weldment 23319 1 Handle Weldment 23310 1 Handle Weldment 23310 1	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decal 1 Speed Control Decal 1 Stanley Slicker 1:000 x 2.1 1 Cover 1 Plate 1 Gast Atle 1 Batchel Cear Veldment 1 Plateis: Control Ball 1:0001 1 Wesher, 5/16 Plated 2 Dul Bushing 1 Plateis: Control Ball 1:0001 1 Wesher, 5/16 Plated 2 Dul Bushing 1 Plateis: Control Ball 1:0001 1 Wesher, 5/16 Plated 2 Dul Bushing 1 Plateis: Control Ball 1:0001 1 Wesher, 5/16 Plated 2 Dul Bushing 1 Control Ball 1:0001 1 Capscrew, Modified 1 Capscrew, 1/2 -13 UNC x 1 Adapter 1 Jab 1 Lockwasher, 1/2 2 Plate 1 Thust Washer 1 Needle Thrust Bearing 1 Plate 1 Plat
Part No. City. 22211 A/R Shim 22280 1 Null Support Weldment 22280 1 Feed Screw Guard 22207 1 Feed Screw, 1/4 - 20 UNC x 22208 1 Feed Null 22208 1 Feed Screw, 1/4 - 20 UNC x 22308 1 Spring 22209 1 Spring 22209 1 Feed Screw 222	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Capscrew, 1/4 -20 UNC x: 12 Capscrew, 1/4 -20 UNC x: 13 Stanley Sticker 1 000 x 2.1. 14 Capscrew, 1/2 -10 UNC x: 15 Capscrew, 1/2 -10 UNC x: 16 Capscrew, 1/2 -10 UNC x: 17 Capscrew, 1/2 -10 UNC x: 18 Capscrew, 1/2 -10 UNC x: 19 Capscrew, 1/2 -10 UNC x: 10 Capscrew, 1/2 -10 UNC x:
Part No. City. 22211 A/R Shim 22285 1 Nul Support Weldment 22286 1 Feed Screw Guard 22287 2 Roll Pin, 1/8 x3/4 22206 2 Feed Nul 22286 2 Feed Nul 22286 2 Feed Nul 22286 1 Feed Nul 22286 2 Feed Nul 22286 2 Feed Nul 22287 1 Feed Screw 22287 1 Feed Screw 2228 1 Feed Screw 22288 1 Locknut, 1/4 22224 4 Stud 22289 1 Locknut, 1/4 22224 2 Stud 22289 1 Locknut, 1/4 22224 2 Stud 22289 1 Locknut, 1/4 22224 3 Stud 22289 1 Locknut, 1/4 22224 2 Stud 22289 1 Locknut, 1/4 22296 2 Feed Screw 22289 1 Locknut, 1/4 22291 1 Stop Washer 22291 2 Feed Screw 22298 1 Locknut, 1/4 22291 1 Feed Screw 22298 1 Locknut, 1/4 22291 2 Feed Screw 22294 2 Feed Screw 22296 2 Feed Screw 22296 2 Feed Screw 22296 2 Feed Screw 22297 1 Feed Screw 22398 1 Locknut-1/8 22397 1 Feed Screw 22398 1 Locknut-1/8 22397 1 Feed Screw 22398 1 Locknut-1/2 22397 1 Locknut-1/2 22398 1 Locknut-1/2 22398 1 Locknut-1/2 22399 1 Feed Screw 22399 1 Locknut-1/2 22399 1 Locknut-1/2 22399 1 Locknut-1/2 22399 1 Locknut-1/2 22399 1 Feed Screw 22399 1 Feed Screw 22399 1 Locknut-1/2 22399 1 Locknut-1/2 22399 1 Locknut-1/2 22399 1 Feed Screw 22399 1 Feed Screw 22399 1 Locknut-1/2 22399 1 Locknut-1/2 22399 1 Locknut-1/2 22399 1 Feed Screw 22399 1 Feed Screw 22399 1 Locknut-1/2 22399 1 Feed Screw 223	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decal 1 Speed Control Decal 1 Stanley Sticker 1:000 x 2.1 1 Cover 1 Plats 1 Stanley Sticker 1:000 x 2.1 1 Cover 1 Plats 2 Plats Washer, 5/8 (Hardene 1 Gast Artel 2 Dul Bushing 2 Platsit Control Ball 1:000 1 Wesher, 5/15 Plated 2 Dul Sushing 2 Hauther Common Mediment 2 Subjusting Cam Weidment 2 Subjusting Cam Weidment 2 Subjusting Cam Weidment 2 Subjusting Cam Weidment 3 Subjusting Cam Weidment 4 Capscrew, 12-13 UNC x 5 Lockwasher, 1/2 1 Adapter 1 Spring 1 Capscrew, 110-24 UNC x 1 Spring 1 Thust Washer 1 Needle Thrust Bearing 1 Retaining Ring 1 Retaining Ring 1 Racher 1 Record Platsic
Part No. City. 22211 A/R Shim 22226 1 Null Support Weldment 22236 1 Feed Screw Guard 22237 1 Feed Screw, 1/4 - 20 UNC x 22238 1 Feed Screw, 1/4 - 20 UNC x 22236 1 Plunger 22236 1 Plunger 22236 1 Spring 22236 1 Spring 22236 1 Spring Washer 22237 1 Stop Washer 22238 1 Lower Hall Shell Weldmen 22238 1 Stop Washer 22239 1 Lower Hall Shell Weldmen 22239 1 Lower Hall Shell Weldmen 2224 2 Capscrew, 1/4 - 20 UNC x 2246 2 Capscrew, 1/4 - 20 UNC x 2246 2 Capscrew, 1/4 - 20 UNC x 2246 2 Capscrew, 1/4 - 20 UNC x 2248 1 Cover 22239 1 Lower Hall Shell Weldmen 2229 1 Plate 2231 2 Capscrew, 1/4 - 20 UNC x 2448 1 Stanley Slicker 1.000 x 2.1 2429 1 Plate 2231 1 Cover 2316 2 Flat Washer, 5/8 (Harden 2231 1 Cover Slicker 1.000 x 2.1 2448 1 Capscrew, Modified 22277 1 Core Grip 22377 1 Core Grip 22378 1 Japport 22378 1 Japport 22379 1 Hab Adapter 2238 1 Tab 2249 1 Tab 2249 1 Lowerler Holl Capscrew, 172 - 3 UNC x 2249 1 Lapscrew, 172 - 3 UNC x 2249 1 Lapscrew, 172 - 2 UNC x 2249 1 Lapscrew, 172 - 2 UNC x 2249 1 Lapscrew, 172 - 2 UNC x 2249 1 Lapscrew, 172 - 3 UNC x 2249 1 Lapscrew, 174 - 3 UNC x 2249 1 Lapscrew	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decail 1 Sanley Sticker 1 000 x 2.1. 1 Cover 1 Plate 2 Plat Washer, 5/8 (Hardene Gear Aviet) 2 Plate Basic Control Ball 1.000 1 Washer, 5/16 Plated 1 Adjusting Cam Weldment 1 Stud 1 Capscrew, Modified 1 Cover Grip 1 Hub Adapter 1 Hub Adapter 1 Hub Asser Sized Ball 2 Support 1 Support 2 Bull Sized Ball 3 Support 2 Bull Cookwasher, 1/2 4 Adapter 1 Jockwasher, 1/2 4 Adapter 1 Thust Washer, 5/10 Plated 1 Thust Washer 1 Redaling Ring 1 Rachet Sector Gear 1 Redelining Ring 1 Masher Sector Gear 1 Hasher Sector Gear
Part No. City. 22211 A/R Shim 22285 1 Nul Support Weldment 22286 1 Feed Screw Guard 22286 2 Feed Nul 22286 2 Feed Nul 22286 2 Feed Nul 22286 2 Feed Nul 22286 1 Feed Nul 22286 2 Feed Nul 22287 1 Feed Screw 22287 1 Feed Screw 22288 1 Locknut, 1/4 22224 4 Shid 22289 1 Capscrew, 1/4 - 20 UNC x 22289 1 Lower Hall Shell Weldmen 22389 1 Lower Hall Shell Weldmen 22389 1 Lower Hall Shell Weldmen 22389 1 Lower Hall Shell Weldmen 22391 1 Feed Screw 22389 1 Lower Hall Shell Weldmen 22391 2 Faix Washer , 1/6 (Hardene 2204 2 Feat Weldment 22491 1 Feed Screw Hoddlied 22492 1 Feat Weldment 22591 1 Feed Screw Hoddlied 22572 1 Cone Grip 22489 1 Lockwasher , 1/2 - 1/3 UNC x 22691 1 Faix Weldment 22671 1 Gobwasher , 1/2 - 1/3 UNC x 22691 1 Feed Neidment 22671 1 Gobwasher , 1/2 - 1/3 UNC x 22691 1 Feed Neidment 22671 1 Gobwasher , 1/2 - 1/3 UNC x 22691 1 Feed Neidment 22671 1 Gobwasher , 1/2 - 1/3 UNC x 22691 1 Feed Neidment 22671 1 Gobwasher , 1/2 - 1/3 UNC x 22691 1 Feed Neidment 22671 1 Gobwasher , 1/2 - 1/3 UNC x 22691 1 Feed Neidment 22671 1 Gobwasher , 1/2 - 1/3 UNC x 22691 1 Feed Neidment 22671 1 Feed Screw , 1/2 - 1/3 UNC x 22691 1	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decal 1 Speed Control Decal 1 Stanley Sticker 1:000 x 2.1 1 Cover 1 Plats 1 Stanley Sticker 1:000 x 2.1 1 Cover 1 Plats 2 Plat Washer, 5/8 (Hardene 1 Gast Axie 1 Platsis: Control Ball 1:000 1 Washer, 5/15 Plated 2 Dul Bushing 2 Platsis: Control Ball 1:000 1 Washer, 5/15 Plated 2 Dul Bushing 2 Haushing Cam Weldment 2 Subgraw. Modified 3 Cone Grip 1 Cone Grip 1 Cone Grip 1 Loch Adapter 1 Handle Weldment 2 Support 2 Support 3 Support 3 Support 4 Capscrew, 1/2 - 3 UNC x 5 Spring 1 Lockwasher; 1/2 1 Adapter 1 Needle Thrust Bearing 1 Retables Server (Part 2 Thrust Washer 2 Thrust Washer 3 Racher Server (Part 3 Racher Server (Part 4 Capscrew, 1/2 - 3 UNC x 4 Capscrew, 1/2 - 3 UNC x 5 Pring 1 Retables Server (Part 2 Thrust Washer 3 Racher Server (Part 4 Racher Server (Part 4 Racher Server (Part 4 Racher (Part 4 Rach
Part No. City. 22211 A/R Shim 22280 1 Null Support Weldment 22280 1 Feed Screw Guard 22201 1 Feed Screw Guard 22202 1 Feed Null Support 22202 1 Feed Null Support 22202 1 Feed Null Support 22203 1 Feed Null Support 22203 1 Feed Null Support 22203 1 Feed Null Support 22204 1 Cobraut, 1/4 22204 1 Cobraut, 1/4 22205 1 Stop Washer 22205 1 Feed Screw 22205 1 Feed Screw 22205 1 Capscrew, 1/4-20 UNC x 20047 1 Capscrew, 1/4-20 UNC x 20147 1 Capscrew, 1/4-20 UNC x 20157 1 Stop Washer 22207 1 Capscrew, 1/4-20 UNC x 20158 1 Capscrew, 1/4-20 UNC x 20159 1 Capscrew	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decail 1 Sanley Sticker 1 000 x 2.1 1 Cover 1 Plate 2 Du Busher, 5/8 (Hardene Rear Weldment Plastic Control Ball 1.000) 1 Washer, 5/16 Plated Adjusting Cam Weldment Adjusting Cam Weldment 1 Stud 1 Capscrew Modified Outer, Collet Hub Adapter 1 Spring 1 Thust Washer, 1/2 1 Adapter 1 Spring 1 Thust Washer, 10 1 Capscrew, #10 -24 UNC x 2 Thrust Washer 1 Readal Thrust Bearing 1 Headaling Ring 1 Model Readaling Ring 1 Model Readaling Ring 1 Model Readaling Ring 1 Headaling Ring 1 Headaling Ring 1 Headaling Ring 1 Headaling Ring
Part No. City. 22211 A/R Shim 22280 1 Nut Support Weldment 22280 1 Feed Strew Guard 22280 2 Feed Nut 22280 2 Feed Nut 22280 2 Feed Nut 22280 1 Plate 22281 1 Feed Strew 22281 1 Feed Strew 22281 1 Feed Strew 22282 1 Feed Nut 22283 1 Plate 22284 2 Fining Washer, 1/4 22224 4 Shid 22286 1 Feed Strew 22286 1 Stop Washer 22286 1 Feed Strew 22387 1 Feed Strew 22387 1 Feed Strew 22388 1 Feed Strew 22389 1 Feed Strew 2389 1 Feed Strew 2389 1 Feed Strew 2389 1 Feed Strew 238	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decal 1 Sanley Slicker 1 000 x 2.1 1 Cover 1 Plate 1 Capscrew, 1/4 -20 UNC x 1 Cover 1 Plate 2 Dut Bushing 2 Plastic Control Beal 1 .0001 1 Washer, 9/16 Plated 2 Dut Bushing 2 Plastic Control Beal 1 .0001 1 Washer, 9/16 Plated 2 Dut Bushing 2 Plastic Control Beal 1 .0001 1 Washer, 9/16 Plated 2 Dut Bushing 2 Plastic Control Beal 1 .0001 2 Cone Grip 1 C
Part No. City. 22211 A/R Shim 22280 1 Null Support Weldment 22280 1 Feed Screw Guard 22201 1 Feed Screw Guard 22202 1 Feed Null Support 22202 1 Feed Null Support 22202 1 Feed Null Support 22203 1 Spring 22203 1 Spring 22203 1 Spring 22204 1 Cobraut, 1/4 22214 1 Cobraut, 1/4 22215 1 Stop Washer 22205 1 Feed Screw 22205 1 Stop Washer 22205 1 Capscrew, 1/4-20 UNC x 20047 1 Capscrew, 1/4-20 UNC x 20047 1 Capscrew, 1/4-20 UNC x 20148 1 Cover 22205 1 Cover 22206 1 Feat Washer, 1/4 22216 1 Stanley Slicker 1,000 x 2.0 2240 2 Capscrew, 1/4-20 UNC x 20540 1 Capscrew, 1/4-20 UNC x 20541 1 Stanley Slicker 1,000 x 2.0 2240 1 Capscrew, 1/4-20 UNC x 20541 1 Stanley Slicker 1,000 x 2.0 2240 1 Capscrew, 1/4-20 UNC x 20541 1 Stanley Slicker 1,000 x 2.0 2240 1 Capscrew, 1/4-20 UNC x 2250 1 Tab 2251 1 Support	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decail 1 Stanley Sticker 1 000 x 2.1 1 Cover 1 Plate 2 Du Busher, 5/8 (Hardene 1 Bact Washer, 5/8 (Hardene 1 Hardene Gear Weidment 1 Ratcher Gear Weidment 1 Ratcher Gear Weidment 1 Ratcher Gear Weidment 2 Duster Collet 1 Adjustin Cam Weidment 1 Capscrew Modified 1 Lockwasher, 1/2 JUNC x 2 Thrust Washer, 1/2 1 Adapter 1 Spring 1 Tab 1 Capscrew, #10 -24 UNC x 2 Thrust Washer, 1/2 2 Thrust Washer, 1/2 2 Theading Theading Model 2 Thrust Washer, 1/2 Thrust Reading Model 3 Thrust Washer, 1/2 Thrust Reading Model 4 Thrust Reading Model 5 Thrust Reading Model 5 Thrust Reading Model 5 Thrust Reading Model 6 Thrust Washer, 1/2 Thrust Reading Model 7 Thrust Readi
Part No. City. 22211 A/R Shim 22286 1 Nut Support Weldment 22287 2 Red Pin, 1/8 x 3/4 22208 1 Plumper 22225 1 Plate 2224 4 Subd 22219 1 Plate 22	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decal 1 Stanley Sticker 1 000 x 2.1. 1 Cover 1 Plate 1 Capscrew, 1/4 -20 UNC x 1 Capscrew, 1/4 -20 UNC x 1 Capscrew, 1/4 -20 UNC x 1 Plate 2 Dut Bushing 2 Plate Washer, 5/8 Plated 3 Dut Bushing 4 Ratchel Gear Weldmant 5 Plated 5 Plated 6 Adjusting Cam Weldmant 7 Washer, 5/16 Plated 6 Adjusting Cam Weldment 1 Capscrew, Modified 7 Capscrew, 1/2 - 13 UNC x 8 Depactew, 1/2 - 13 UNC x 1 Adapter 1 Plate 1 Spring 1 Lockwasher, 1/2 1 Capscrew, 1/10 - 24 UNC x
Part No. City. 22211 A/R Shim 22285 1 Null Support Weldment 22286 1 Feed Screw Guard 22205 2 Feed Null 22206 2 Pin Plante 22207 1 Feed Screw / 1/4 - 20 UNC x 22206 1 Plante 22207 1 Plante 22207 1 Plante 22208 1 Plante 22209 1 Plante 22209 1 Plante 22209 1 Plante 22219 2 Plante 22219 1 Plante 222219 1 Pla	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decal 1 Sanley Sticker 1.000 x 2.1 1 Sanley Sticker 1.000 x 2.1 1 Cover 1 Plate 2 Fait Washer, 5/8 (Hardene Plate 2 Du Busher 2 But Wednent Plastic Control Ball 1.0001 1 Masher, 5/16 Plated 2 Adjusting Cam Weldment 1 Stud 2 Capscrew Modified 2 Capscrew Modified 3 Cone Grip 3 Duter Collet 1 Hub Anapter 1 Hub Anapter 1 Jay But, Steel Ball 3 Supon 1 Lockwasher, 1/2 JUNC x 6 Lockwasher, 1/2 1 Adapter 1 Spring 1 Lockwasher, 1/2 1 Adapter 1 Spring 1 Lockwasher, 1/2
Part No. City. 22211 A/R Shim 22265 1 Nut Support Weldment 22265 1 Feed Strew Guard 22206 2 Feed Nut 22206 2 Feed Nut 22206 1 Plate 22206 2 Feed Nut 22206 2 Feed Nut 22207 1 Plate 22215 1 Spring 22226 1 Plate 22216 1 Spring Washer; 1/4 22224 4 Stud 22217 1 Plate 22216 1 Spring Washer; 1/4 22224 2 Stud 22197 1 Plate 22216 1 Spring Washer; 1/4 22224 1 Spring Washer; 1/4 22226 1 Plate 22216 1 Stud 22217 1 Plate 22218 1 Spring Washer; 1/4 22208 2 Flatwasher; 1/4 22208 2 Flatwasher; 1/4 22209 2 Flatwasher; 1/4 22219 1 Plate 22319 1 Stanley Sticker 1:000 x 2.0 2249 2 Cover Sticker 1:000 x 2.0 2249 2 Flat Washer; 5/B (Hardenet 2204 1 Gear Aute 22217 1 Cone Grip 2237 1 Cover Sticker 1:000 x 2.0 23710 1 Spring Cam Weldment 2240 1 Spring Cam Weldment 2250 1 Spring Stanley Sticker 1:000 x 2.0 23710 1 Covers Sticker 1:000 x 2.0 23711 1 Covers Sticker 1:000 x 2.0 23711 1 Covers Sticker 1:000 x 2.0 23711 1 Covers Sticker 1:000 x 2.0 23712 1 Covers Sticker 1:000 x 2.0 23713 1 Covers Sticker 1:000 x 2.0 23714 1 Covers Sticker 1:000 x 2.0 23715 1 Covers Sticker 1:000 x 2.0 23716 1 Covers Sticker 1:000 x 2.0 23717 1 Covers Sticker 1:000 x 2.0 23718 1 Spring 1 Sp	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decal 1 Sanley Sticker 1 000 x 2.1 1 Cover 1 Plate 2 Flat Washer, 5/8 (Hardene 1 Gear Arie 2 But Bushing 1 Ratchel Gear Weldment 1 Hastic Control Ball 1.000 1 Washer, 5/16 Plated 1 Adjusting Cam Weldment 1 Stud 1 Capscrew- Modified 1 Capscrew- Modified 1 Capscrew- Modified 1 Capscrew- 1/2 Support 1 Handle Weldment 1 Support 1 Handle Weldment 1 Capscrew- 1/2 - 3 UNC x 1 Doming 1 Bohing 1 Bohing 1 Bohing 1 Bohing 1 Capscrew- 1/2 Capscrew- 1/2 Spring
Part No. City. Dear No. City. Will Support Weldment 22380 1 Feed Screw Guard 22205 22205 1 Feed Nut 22205 22206 2 Find Pin, 1/8 x3/4 22205 22206 1 Plane 22205 1 Plane 22205 22215 22215 22216 22216 22216 22217 22224 22224 22226 22226 22226 22226 22226 22227 22228 22227 22228 2228 228 22	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decal 1 Sanley Sticker 1.000 x 2.1 1 Sanley Sticker 1.000 x 2.1 1 Cover 1 Plate 2 Fait Washer, 5/8 (Hardene Rear Weldment Plastic Control Ball 1.000) 1 Harcher (Sear Weldment Plastic Control Ball 1.000) 1 Washer, 5/16 Plated Adjusting Cam Weldment Capscrew, Modified Cone Grip 1 Outer Collet 1 Hub Anapter 1/2 -13 UNC x 2 Lack Capscrew, 1/2 -13 UNC x 4 Lack Capscrew, 1/2 -13 UNC x 5 Loddwasher, 1/2 1 Adapter 1 Adapter
Part No. City. 22211 A/R Shim 22260 1 Nut Support Weldment 22260 1 Feed Strew Guard 22200 1 Feed Strew Guard 22200 1 Feed Nut 22215 1 Spring Washer, 1/4 22224 4 Stud 22197 1 Feed Screw 22208 1 Lower Hall Shell Weldmen 22209 1 Feed Screw 22209 2 Feed Vester Not	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decal 1 Sanley Sicker 1 000 x 2.1. 1 Cover 1 Plate 2 Flat Washer, 5/8 (Hardene 1 Gear Arie 2 But Bushing 2 But Bushing 3 Hatchel Gear Weldment 1 Hastic Control Ball 1.000 1 Washer, 5/16 Plated 2 Judgetter Cam Weldment 1 Stud 1 Capscrew, Modified 1 Capscrew, Modified 2 Control Ball 1 Suppon 1 Handle Weldment 1 Stud 2 Capscrew, 1/2 - 13 UNC x 4 Capscrew, 1/2 - 13 UNC x 5 Comp.
Part No. City. 22211 A/R Shim 22280 1 Nuf Support Weldment 22320 1 Feed Strew Guard 22205 2 Feed Nuf 22206 2 Feed Nuf 22205 1 Spring Vasher, 1/4 - 20 UNC x 22205 1 Plate 22205 1 Spring Washer, 1/4 22204 4 Shid 22219 1 Plate 22219 1 Feed Screw 22219 1 Plate 22219 1 Plate 22219 1 Feed Screw 22269 1 Lover Hall Shell Weldmen 2269 1 Lover Hall Shell Weldmen 2269 1 Lover Hall Shell Weldmen 2219 1 Stop Washer, 1/4 22224 2 Logscrew, 1/4 - 20 UNC x 20047 10 Capscrew, 1/4 - 20 UNC x 20548 1 Spring Washer, 1/4 22219 1 Feel Wesher, 5/6 (Hardene 22204 2 Dar Axie 22219 1 Feel Wesher, 5/6 Plated 22217 1 Feel Wesher, 5/6 Chardene 22219 1 Feel Wesher, 5/6 Plated 22217 1 Study 22219 1 Core Grip 22377 1 Core Grip 22472 1 Support 22473 1 Support 22473 1 Support 22474 1 Capscrew, Modified 22377 1 Handle Weldment 22475 1 Support 22472 1 Support 22472 1 Support 22472 1 Support 22473 1 Support 22473 1 Support 22474 1 Capscrew, 1/2 - 3 UNC x 22686 1 Capscrew, 1/2 - 3 UNC x 22696 1 Capscrew, 1/2 - 3 UNC x 22697 1 Capscrew, 1/2 - 3 UNC x 22697 1 Capscrew, 1/4 - 2 UNC x 22697 1 Capscrew, 1/4 - 2 UNC	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decal 1 Sanley Sticker 1.000 x 2.1 1 Cover 1 Plate 2 Flat Washer, 5/8 (Hardene 1 Gear Axle 2 DU Busher Seal 1.0001 1 Plastic Control Ball 1.0001 1 Plastic Control Ball 1.0001 1 Washer, 5/16 Plated 1 Gune Keyen Modified 1 Capscrew Modified 1 Counter Sanley Modified 1 Outler Collet 1 Hub Anapter 1 Jay Bula, Steel Ball 1 Support 1 Handle Weldment 1 Support 1 Handle Weldment 1 Capscrew (1/2 -13 UNC x 6 Lockwasher, 1/2
Part No. City. 22211 A/R Shim 22280 1 Nut Support Weldment 22280 1 Feed Strew Guard 22202 1 Feed Nut 22203 1 Plumper 22205 1 Plumper 22215 1 Spring Washer, 1/4 22124 4 Stud 22197 1 Feed Screw 22216 1 Spring Washer 22217 1 Stud 22224 1 Stud 22197 1 Plate 22216 1 Spring Washer 22280 1 Lower Halt Shell Weldmen 22208 1 Lower Halt Shell Weldmen 22198 1 Stanley Sticker 1,000 x 2.0 22492 1 Stanley Sticker 1,000 x 2.0 22491 1 Stanley Sticker 1,000 x 2.0 22492 1 Stanley Sticker 1,000 x 2.0 22491 1 Stanley Sticker	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decal 1 Stanley Sticker 1 000 x 2.1. 1 Cover 1 Plate 1 Capscrew, 1/4 -20 UNC x: 2 Flat Washer, 5/8 (Hardene 1 Gear Arie 2 Du Bushing 2 Du Bushing 3 Du Bushing 4 Ratchel Gear Weldmant 1 Pastic Comtrol Ball 1 0001 1 Washer, 5/16 Plated 1 Adjusting Cam Weldmant 1 Stud 1 Capscrew, Modified 1 Cover Street 1 Hub Adapter 1 Support 1 Handle Weldment 1 Support 1 Handle Weldment 1 Capscrew, 1/2 - 13 UNC x 1 Lockwesther, 1/2
Part No. City. 22211	2 Capscrew, 1/4 -20 UNC x: 10 Capscrew, 1/4 -20 UNC x: 11 Speed Control Decal 1 Sanley Sticker 1.000 x 2.1 1 Stanley Sticker 1.000 x 2.1 1 Cover 1 Plate 2 Flat Washer, 5/8 (Hardene 1 Gear Axle 2 DU Busher 2 DU Busher 1 Hascher Gear Weldment 1 Plastic Control Ball 1.0001 1 Washer, 5/16 Plated 1 Adjusting Cam Weldment 1 Stud 1 Capscrew, Modified 1 Outer Collet 1 Hub Adapter 1 Hub Adapter 1 Jay Dia, Steel Ball 1 Suppon 1 Handle Weldment
Part No. City. Description 22210 AIR Shim 22220 1 Feed Screw Guard 22220 22220 2 Fee Number 22220 2 Fee Number 22220 2 Phing Washer, 1/4 20 UNC x 1/2 2224 2224 2225 1 Paite 2224 2226 2 Fee Number 2225 2 Fee Number 2226 2 Fee Number 2227 2226 2 Fee Number 2228 2	2 Capscrew, 1/4-20 UNC x 9/8 10 Capscrew, 1/4-20 UNC x 9/8 11 Speed Control Decal 1 Stanley Sticker 1.000 x 2.000 1 Cover 1 Plat 2 Flat Washer, 5/8 (Hardened) 1 Gear Axia 2 Flat Washer, 5/8 (Hardened) 2 Platic Control Ball 1.000 Dia 4 Hashir Control Ball 1.000 Dia 5 Washer, 5/16 Plated 2 July Bushing 1 Platic Control Ball 1.000 Dia 1 Washer, 5/16 Plated 2 Adjusting Cam Weldment 1 Stud 1 Capscrew-Modified 1 Capscrew-Modified 2 Cone Grip 1 Hub Adapter 1 Hub Adapter 1 Hub Aspel Ball 1 Support 1 Handle Weldment
Part No. City. Description 22280 / IAM Shim 22280 / I Feed Screw Guard 22392 / Feed Screw Guard 22205 / Feed Screw Guard 22206 / Feed Screw July 22206 / Feed Screw July 22206 / Feed Mus 22206 / Feed Nus 22206 / Feed Nus 22206 / Feed Nus 22207 / Feed Nus 22206 / Feed Nus 22207 / Feed Nus 22207 / Feed Nus 22208 / Feed Screw 22209 / Fe	2 Capscrew, 1/4-20 UNC x 9/8 10 Capscrew, 1/4-20 UNC x 9/8 11 Speed Control Decai 12 Slanley Sticker 1.000 x 2.000 13 Cover 14 Plate 15 Gear Axle 2 Plat Washer, 5/8 (Hardened) 2 Flat Washer, 5/8 (Hardened) 3 Gear Axle 2 UJ Busher Weldment 4 Plastic Control Ball 1.000 Dia 4 Maysher, 5/16 Plated Adjusting Cam Weldment 1 Subd Cam Weldment 1 Subd Can Grip 1 Outer Collett 1 Hub Adapter 1 Jafo Dia, Steel Ball 1 Support
Part No. City. Description 22210 / AIR Shim 22226 1 Feed Screw Guard 22227 2 Find Mut 22226 2 Find Mut 22226 2 Find Mut 22226 2 Find Mut 22226 1 Pate 22225 1 Pate 22225 1 Pate 22225 1 Pate 22225 1 Pate 22226 1 Shing Washer, 1/4 22226 1 Shing Washer, 1/4 22226 1 Shing Washer, 1/4 22227 1 Shing Washer, 1/4 22227 1 Flate 22219 1 Pate 22219 1 Pate 22219 1 Pate 22219 1 Pate 22219 1 Shing Washer, 1/4 22228 1 Lower Half Shiel Weldment 2238 1 Lower Half Shiel Weldment 2249 2 Stanley Sticker 1.00 x 2.00 2549 2 Elat Washer, 1/4 25206 1 Stanley Sticker 1.000 x 2.000 2549 2 Cover 25206 2 Pate Weldment 25219 1 Rachet Gear Weldment 25219 1 Pate Control Pate 25219 1 Pate 25217 1 Coper Grip 25237 1 Cover Grip 25237 1 Outer Collet 25237 1 Outer Collet 25237 1 Outer Collet 25237 1 Jak Disk Siele Bali	2 Capscrew, 1/4-20 UNC x/8/ 10 Capscrew, 1/4-20 UNC x/8/ 11 Speed Control Decai 1 Stanley Sticker 1.000 x 2.000 1 Cover 1 Plate 1 Plate 2 Flat Washer, 5/8 (Hardened) 1 Caps Avair 2 Plate Control Ball 1.000 Dia 2 Platic Control Ball 1.000 Dia 3 Platic Control Ball 1.000 Dia 4 Washer, 5/16 Plated 2 Du Bushing 1 Platic Control Ball 1.000 Dia 1 Washer, 5/16 Plated 2 Dia Capscrew Modified 1 Capscrew Modified 1 Capscrew Modified 1 Capscrew Modified 1 Hub Adapter 1 Hub Adapter 1 Hub Adapter 1 Hub Steel Ball
Part No. City. Description 22210 AIR Shim 22280 Discrete Guard 22322 I Feed Screw Guard 22205 Plant 22206 Plant Plant 22206 Plant Plant	2 Capscrew, 1/4-20 UNC x 9/8 10 Capscrew, 1/4-20 UNC x 7/8 11 Speed Control Decai Slanley Sticker 1.000 x 2.000 Cover Plate 1 Gear Axle 2 Flat Washer, 5/8 (Hardened) 1 Gear Axle 2 Hatcher Gear Weldment 2 Hatcher Gear Weldment 4 Hatcher Gear Weldment 5 Lought Standard 1 Flastic Control Ball 1.000 Dia 1 Washer, 5/16 Plated 1 Adjusting Cam Weldment 1 Stud 1 Capscrew- Modified 1 Outer Collet 1 Hub Adapter
Part No. City. Description 22210 A/R Shim 22220 1 Feed Screw Guard 22220 22220 2 Pin Feed Nut 22220 3 Pin Feed Nut 22220 4 Lockmut, 1/4 22224 4 Stud 22219 4 Lockmut, 1/4 22224 4 Stud 22219 3 Pin Feed Screw 22219 4 Lockmut, 1/4 22224 4 Stud 22219 5 Spring Washer, 1/4 22224 4 Stud 22219 5 Hate 22219 5 Hate 22219 1 Cower Harbert Charle 22208 1 Speed Control Decial 22309 1 Stankey Sticker 1.000 x 2.000 22492 2208 22191 22281 22281 22381 22482 22583 22584 22684 22684 22685 227064 227064 227065 227064 227065 227065 22707 22707 22708 22708 22708 22709 2	2 Capscrew, 1/4-20 UNC x/8/10 Capscrew, 1/4-20 UNC x/8/11 Speed Control Decai Stanley Sticker 1.000 x.2.000 1 Cover Plate Control Cover Plate Control Cover Plate Control Cover Cove
Part No. City. Description 22211 A/R Shim 22280 I Redd Screw Guard 22322 I Feed Screw Guard 22205 I Feed Screw Guard 22206 2 Pin Feed Nut 22206 1 Plage 22206 1 Plage 22207 1 Plage 22208 1 Plage 22208 1 Plage 22209 1 Plage 22209 1 Spring 22209 1	2 Capscrew, 1/4-20 UNC x 9/8 10 Capscrew, 1/4-20 UNC x 9/8 11 Speed Control Decai 12 Stanley Sticker 1.000 x 2.000 13 Stanley Sticker 1.000 x 2.000 14 Cover 15 Plat Washer, 5/8 (Hardened) 16 Gear Axle 2 Plat Washer, 5/8 (Hardened) 17 Gear Axle 2 DJ Bushing 2 DJ Bushing 3 LD Bushing 4 Hackfort Gear Weldment 5 Washer, 5/16 Plated 1 Adjusting Cam Weldment 1 Sudustrey. Modified 1 Capscrew. Modified 1 Capscrew. Modified
Part No. City. Description 22210 A/R Shim 22220 1 Feed Screw Guard 22220 1 Feed Screw Guard 22220 22220 1 Feed Screw Guard 22220 22220 1 Feed Screw Guard 22220 1 Feed Nut 22220 1 Pate 22220 1 Pate 22221 22222 1 Cohmut, 1/4 22224 22197 1 Shing Washer, 1/4 22224 22197 1 Flave 22215 1 Shing Washer, 1/4 22224 22197 1 Flave 22215 1 Shing Washer, 1/4 22224 22283 1 Cower Hall Shiell Weldment 22480 22580 22681 22682 22683 22684 22685 22686 22796 22706 22707 22708 22708 22887 22887 22887 22887 22887 22887 22887 22887 22887 22887 22888 22888 22888 22889 22880 22889 22889 22889 22889 22889 22889 22889 22889 22880 22889 228	2 Capscrew, 1/4-20 UNC x/8/10 Capscrew, 1/4-20 UNC x/8/11 Speed Control Decai Stanley Sticker 1.000 x 2.000 1 Cover Plat Washer, 5/8 (Hardened) Capt Autie Gear Weldment Plastic Control Ball 1.000 Dia Washer, 5/16 Plated Adjusting Cam Weldment Sudd Lapscrew-Modified Capscrew-Modified Capscrew-Modified
Part No. City. Description 22211 A/R Shim 22280 1 Nut Support Weldment 22382 1 Feed Screw Guard 22777 4 Feed Surew Guard 22787 2 Feed Nut 22286 1 Feed Screw Guard 22788 1 Feed Screw J4 - 20 UNC x 1/2 2278 1 Spring 2278 4 Spring 2278 4 Spring 2278 4 Spring 2278 5 Spring Washer, 1/4 2279 7 Spring 2279 1 Support 2279 1 S	2 Capscrew, 1/4-20 UNC x 9/8 10 Capscrew, 1/4-20 UNC x 7/8 11 Speed Control Decai Slanley Sticker 1.000 x 2.000 Cover 1 Plate 2 Flat Washer, 5/8 (Hardened) 1 Gear Axle 2 DJ Bushing 2 DJ Bushing 3 Hardret Gear Weldment 1 Plastic Control Ball 1.000 Dia 1 Washer, 5/16 Plated 1 Adjusting Cam Weldment 1 Stud
Part No. City. Description 22211 A/R Shim 22226 1 Feed Screw Guard 22226 2 Fin Nut Support Weldment 22226 2 Fin Nut Support 22226 1 Paite 22226 2 Fin Nut Support 22226 2 Fin Nut Support 22226 1 Paite 22227 2 Fin Nut Support 22226 2	2 Capscrew, 1/4-20 UNC x/8/ 10 Capscrew, 1/4-20 UNC x/8/ 11 Speed Control Decal 1 Stanley Sticker 1.000 x.2.000 1 Cover 1 Plate 1 Plate 2 Plat Washer, 5/8 (Hardened) 1 Gear Autie 2 Du Bushing 1 Ratcher Gear Weldment 1 Plastic Control Ball 1.000 Dia 1 Washer, 5/16 Plated 1 Adjusting Cam Weldment
Part No. City. Description 22211 A/R Shim 22280 I Feed Screw Guard 22777 4 Feed Nut 22206 2 Pin 22206 1 Peed Nut 22207 1 Peed Nut 22208 2 Pin 22208 1 Peed Nut 22208 1 Peed Nut 22208 2 Pin 22208 1 Peed Nut 22209 1 Peed Nut 22209 1 Peed Nut 22209 1 Peed Nut 22209 1 Spring 22204 4 Shing 2219 1 Peed Screw 2229 1 Lower Half Shell Weldment 2229 1 Lower Half Shell Weldment 2230 1 Speed Control Decal 2219 1 Sheed Control Decal 2219 1 Capscrew, 1/4 20 UNC x 3/4 22204 1 Cover 22106 1 Shing 22106 2 Plate 22106 2 Plate 22107 1 Capscrew, 1/4 20 UNC x 3/4 22208 1 Shingy Sticker 1.000 x 2.000 22492 1 Cover 22106 2 Plate 22107 1 Gear Atle 22208 1 Peatic Cornor Lead 1 22209 1 Peatic Cornor Lead 1 22209 1 Plate 2	2 Capscrew, 1/4-20 UNC x 3/8 10 Capscrew, 1/4-20 UNC x 7/8 1 Speed Control Decai Slanley Sticker 1.000 x 2.000 1 Cover 1 Pate 2 Flat Washer, 5/8 (Hardened) 1 Gear Axle 2 Du Bushing 1 Ratchet Gear Weldment Plastic Control Eatl 1.000 Dia 1 Washer, 5/16 Plated
Part No. City. Description 22201 A/R Shim 22220 1 Feed Screw Guard 22220 2 Feed Nut 22220 2 Ph Pale 22220 1 Punger 22220 2 Ph Pale 22220 2 Ph Pale 22220 1 Spring 22220 1 Punger 22220 1 Spring 22220 1 Plate 22210 1 Spring 22220 1 Plate 22220 1 Cover Hall Shell Weldment 22300 23402 2402 25200 2	2 Capscrew, 1/4-20 UNC x/8/10 Capscrew, 1/4-20 UNC x/8/11 Speed Control Decai Stanley Sticker 1.000 x.2.000 1 Cover Plat Cover Plat Washer, 5/8 (Hardened) Capar Author Capar Author Capar Author Capar Author Capar Author Capar Author Capar Machine Capar M
Part No. City. Description 22211 A/R Shim 22280 1 Feed Screw Guard 22777 4 Feed Nut 22206 2 Pin Feed Screw Guard 22777 4 Feed Nut 22206 1 Feed Screw, 14 -20 UNC x 1/2 22206 1 Place 22207 1 Spring 22207 1 Spring 22208 1 Spring 22208 1 Spring 22209 1 Spring 222	2 Capscrew, 1/4-20 UNC x 3/8 10 Capscrew, 1/4-20 UNC x 7/8 1 Speed Control Decai 1 Stanley Sticker 1.000 x 2.000 1 Cover 1 Plate 1 Plate 2 Flat Washer, 5/8 (Hardened) 2 Flat Washer, 5/8 (Hardened) 3 Du Bushing 4 Batcher Gear Weidment 5 Du Bushing 5 Ratcher Gear Weidment 6 Batcher Gear Weidment
Part No. City. Description 22201 A/R Shim 22220 1 Feed Screw Guard 22232 1 Feed Screw Guard 22232 1 Feed Screw Guard 22232 1 Feed Screw, 1/4 20 UNC x 1/2 2225 1 Plate 2225 1 Plate 2226 2 Feed Numbers, 1/4 2226 1 Spring 2226 1 Spring Washer, 1/4 2227 2216 1 Spring Washer, 1/4 2227 2217 2218 1 Speed Screw 2223 2233 1 Cover Strew, 1/4 20 UNC x 1/8 2246 2256 2266 2267 2268 2268 2268 2268 2269 2269 2269 2260 226	2 Capscrew, 1/4-20 UNC x 9/8 10 Capscrew, 1/4-20 UNC x 7/8 11 Speed Control Decal 1 Stanley Sticker 1.000 x 2.000 1 Capscrew 1 Plate 1 Plate 1 Plate 2 Flat Washer, 5/8 (Hardened) 1 Cear Audit Ge Washfroot
Part No. City. 22211 A/R Shim 22280 1 Feed Screw Guard 22777 4 Feed Screw Guard 22777 4 Feed Screw Guard 22786 1 Feed Screw Guard 22786 2 Fin All Pin, 1/8 x 3/4 22286 1 Feed Nut 22286 1 Spring Washer, 1/4 22224 1 Suud 22797 1 Plate 22715 1 Stop Washer 22786 1 Lower Half Screw 22786 1 Lower Half Screw 22787 1 Capasrew, 1/4 - 20 UNC x 3/4 22797 1 Capasrew, 1/4 - 20 UNC x 3/4 22797 1 Capasrew, 1/4 - 20 UNC x 3/4 22798 1 Lower Half Screw 22786 1 Spring Washer, 1/4 22798 1 Cover Screw 22786 1 Capasrew, 1/4 - 20 UNC x 3/4 22797 10 Capasrew, 1/4 - 20 UNC x 3/4 22798 1 Cover Speed Control Decal 22898 1 Cover 1 Speed Control Decal 2398 1 Sharley Slicker 1.000 x 2.000 22492 1 Cover 1 Plate 271051 2 Flat Washer, 5/8 (Hardened) 22204 1 Ceen Avie	2 Capscrew, 1/4-20 UNC x 3/8 10 Capscrew, 1/4-20 UNC x 7/8 1 Speed Control Decal 1 Stanley Sticker 1.000 x 2.000 1 Cover 1 Plate 2 Flat Washer, 5/8 (Hardened) 1 Gear Adle
Part No. City. Carry Carry Carry	2 Capscrew, 1/4-20 UNC x 7/8 10 Capscrew, 1/4-20 UNC x 7/8 1 Speed Control Decal 1 Stanley Sticker 1.000 x 2.000 1 Cover 1 Plate 2 Flat Washer, 5/8 (Hardened)
Part No. City. Description 22211 A/R Shim 22280 1 Feed Screw Guard 22322 1 Feed Screw Guard 22206 2 Pin Feed Visit Peed	2 Capscrew, 1/4 -20 UNC x 3/4 10 Capscrew, 1/4 -20 UNC x 7/8 1 Speed Control Decal 1 Stanley Sticker 1.000 x 2.000 1 Cover 1 Cover 1 Plate
Part No. City. 22211 A/R Shim 22260 1 Nut Support Weldment 22392 1 Feed Screw Guard 22392 1 Feed Strew Guard 22392 1 Feed Strew Guard 22395 1 Feed Strew Guard 22205 1 Feed Nut 22205 1 Feed Nut 22205 1 Plate 22225 1 Plate 22320 1 Spring 22225 1 Plate 22320 1 Spring 22225 1 Plate 22320 1 Spring 22225 1 Plate 22321 1 Feed Strew 22331 1 Feed Strew 22331 1 Feed Strew 22331 1 Feed Strew 22331 1 Copert /14 20 UNC x 7/8 22197 1 Spring Washer /14 20 UNC x 7/8 22197 1 Spring Washer 22233 1 Copert /14 20 UNC x 7/8 22197 1 Spring Washer 22233 1 Copert /14 20 UNC x 7/8 22197 1 Spring Washer 22233 1 Copert /14 20 UNC x 7/8 22463 1 Stanley Slicker 1.000 x 2.000 22482 1 Copert	2 Capscrew, 1/4 -20 UNC x 3/4 10 Capscrew, 1/4 -20 UNC x 7/6 11 Speed Control Decal 11 Stanley Sticker 1.000 x 2.000 11 Cover
Part No. City. 22211 A/R Shim 22280 I Nut Support Weldmant 22380 I Feed Screw Guard 22206 I Feed Screw Guard 22206 I Feed Screw Guard 22206 I Feed Nut 22206 I Pau Plunger 22205 I Plate 22205 I Plate 22205 I Plate 22205 I Spring 22205 I Spring 22205 I Spring 22206 I Spring 22207 I Stud 22217 I Stud 2219 I Plate 22214 I Stud 2219 I Plate 22215 I Stop Washer, 1/4 22224 I Stud 2219 I Plate 22216 I Spring Washer, 1/4 22226 I Lower Half Shell Weldment 22680 I Capacrew, 1/4 - 20 UNC x 3/4 20147 I Oppscrew, 1/4 - 20 UNC x 3/4 25243 I Sanley Sicker 1.000 x 2.000 25153 I Sanley Sicker 1.000 x 2.000 25153 I Sanley Sicker 1.000 x 2.000	2 Capscrew, 1/4-20 UNC x 3/4 10 Capscrew, 1/4-20 UNC x 7/8 11 Speed Control Decal 1 Stanley Sticker 1.000 x 2.000
Part No. City. 22211 A/R Shim 22260 1 Feed Screw Guard 22392 1 Feed Screw Guard 22392 1 Feed Screw Guard 22392 1 Feed Screw Guard 22395 1 Feed Screw Guard 22206 2 Fee Nut 22206 1 Feed Screw Ald 20 UNC x 1/2 2246 1 Feed Screw 1/4 20 UNC x 1/2 2247 1 Feld Screw 2223 1 Feed Screw 2223 1 Feed Screw 2223 1 Feed Screw 2223 1 Feed Screw 2223 1 Lowert Half Shell Weldment 2256 2 Felawasher, 1/4 2219 1 Stop Washer 2226 1 Feed Screw 2223 1 Feed Screw 2223 1 Feed Screw 2223 2 Felawasher, 1/4 20 UNC x 7/8 246 2 Capassew, 1/4 20 UNC x 7/8 2544 1 Speed Control Decal Cx 7/8 2544 1 Speed Control Decal Cx 7/8	2 Capscrew, 1/4-20 UNC x 3/4 10 Capscrew, 1/4-20 UNC x 7/8 1 Speed Control Decal
Part No. City. 22211 A/R Shim 22280 1 Nut Support Weldmant 22280 2 Fed Nut 22206 2 Fed Nut 22206 2 Fed Nut 22206 2 Fed Nut 22205 1 Plate 22205 1 Plate 22205 1 Plate 22205 1 Plate 22205 1 Spring Washer, 1/A 22204 2 Spring Washer, 1/A 2219 1 Spring Washer, 1/A 22205 1 Spring Washer, 1/A 22206 1 Lower Half Spring Washer, 1/A 22206 1 Lower Half Spring Washer, 1/A 22197 1 Spring	2 Capscrew, 1/4 -20 UNC x 3/4 10 Capscrew, 1/4 -20 UNC x 7/8
Part No. City. 22211 A/R Shim 22260 1 Feed Screw Guard 22392 1 Feed Screw Guard 22392 1 Feed Screw Guard 22392 1 Feed Screw Guard 22395 2 Feel Pin, 18 x 3/4 22206 2 Fen 22206 1 Feed Screw Guard 22206 1 Feed Screw 22206 1 Feed Screw 2230 1 Feed Screw 2230 1 Feed Screw 2230 1 Feed Screw 2230 1 Feed Screw 2231 1 Feed Screw 2233 1 Feed Screw 2246 2 Capscrew, 1/4 - 20 UNC x 3/4 246 2 Capscrew, 1/4 - 20 UNC x 3/4 246 2 Capscrew, 1/4 - 20 UNC x 3/4 247 2 Capscrew, 1/4 - 20 UNC x 3/4	2 Capscrew, 1/4-20 UNC x 3/4
Part No. City. 22211 A/R Shim 22280 I Nut Support Weldmant 22382 I Feed Screw Guard 22392 I Feed Screw Guard 22206 Feed Nut 22206 Part Plunger 22205 I Plate 22205 I Plate 22205 I Plate 22205 I Plate 22205 I Spring 22225 I Spring 22225 I Spring 22225 I Stockwut, 1/4 22226 I Spring Washer, 1/4 22224 I Stud 22197 I Plate 22219 I Spring Washer, 1/4 22224 I Stud 22197 I Plate 22219 I Spring Washer, 1/4 22224 I Stop Washer 22239 I Lower Half Shell Weldment 22390 I Lower Half Shell Weldment 22496 I Lower Half Shell Weldment 22590 I Lower Half Shell Weldment 22590 I Lower Half Shell Weldment 22590 I Lower Half Shell Weldment	O Conserve 112 DO NO VOIC
Part No. City. 22211 A/R Shim 22232 1 Feed Screw Guard 22392 1 Feed Screw Guard 22392 1 Feed Screw Guard 22392 1 Feed Screw Guard 22306 2 Pin 22266 2 Pin 22265 1 Feed Mut 22205 1 Feliae 22320 1 Spring 22225 1 Plate 22456 1 Spring Washer, 1/4 22466 1 Spring Washer, 1/4 22467 1 Spring Washer, 1/4 22468 1 Spring Washer, 1/4 22497 1 Plate 22219 1 Feed Screw 22219 1 Stop Washer	C FIGEWASTER, 1/4
Part No. City. 22211 A/R Shim 22260 I Nut Support Weldment 22382 I Feed Screw Guard 22382 I Feed Screw Guard 22382 I Feed Screw Guard 22206 Feed Nut 22205 I Plunger 22205 I Plunger 22205 I Plunger 22205 I Plunger 22205 I Spring 22205 I Spring 22206 I Sud Screw I/4 - 20 UNC 20719 I Cocknut, I/4 22724 I Sud 22197 I Plate 22116 I Spring Washer, I/4 22224 I Sud 22197 I Plate 22116 I Spring Washer, I/4 22224 I Spring Washer, I/4 22224 I Feed Screw 22333 I Feed Screw) ~
Part No. City. 22211 A/R Shim 22262 1 Feed Screw Guard 22392 1 Feed Screw Guard 22392 1 Feed Screw Guard 22396 2 Pin 22206 2 Pin 22206 1 Feed Nur 22206 1 Feed Nur 22206 1 Feed Nur 22206 1 Flager 2230 1 Feed Nur 22206 1 Flager 2230 1 Spring 2222 1 False 2230 1 Spring 2222 1 False 2230 1 Flager 2230 1 Flager 2230 1 Flager 2230 1 Flager 2231 1 Flager 2331 1 Flager 2	
Part No. City. 22211 AIR Shim 22260 1 Nut Support Weldment 22392 1 Feed Screw Guard 22706 2 Feel Nut 22205 1 Feed Screw Guard 22705 2 Feel Nut 22205 1 Plunger 22205 1 Plunger 22205 1 Plunger 22205 1 Spring 22225 1 Plus 22205 2 Study Washer, 1/4 22246 1 Study Washer, 1/4 222197 1 Plus 22197	doing.
Part No. City. 22211 A/R Shim 22280 I Shim 22380 I Feed Screw Guard 20757 A Roll Pln. 1/8 x 3/4 22206 I Feed Screw Guard 22206 I Feed Nut 22206 I Feed Nut 22206 I Plunger 22300 I Spring 22207 I Plunger 22301 I Plunger 22301 I Plunger 22301 I Plunger 22301 I Spring 22205 I Plunger 22301 I Spring 22205 I Spring 22306 I Plunger 22307 I Plunger 22308 I Spring 23308 I	Plate
Part No. City. 22211 A/R Shim 22260 I Nut Support Weldment 22392 I Feed Screw Guard 22392 I Feed Screw Guard 22392 I Feed Shim 22206 I Pin 22206 I Pin 22206 I Pin 22206 I Pin 22205 I Plunger 22320 I Spring 22225 I Plate 22225 I Plate 22226 I Codrut, 1/4 22466 I Spring Washer, 1/4 22466 I Spring Washer, 1/4	
Part No. City. Descript 22211 A/R Shim 22280 I Nut Support Weldment 22392 I Feed Screw Guard 20757 4 Roll Pln. 1/8 x 3/4 22206 2 Pin 22206 1 Feed Nut 22206 1 Plunger 22205 1 Springer 22205 1 Plane 22205 1 Plane 22205 1 Plane 22205 1 Codenut, 1/4 20 UNC	Spring washer,
Part No. City. Descript 22211 A/R Shim 22250 In Mul Support Weldment 22392 1 Feed Strew Guard 200757 4 Roll Pin, 1/8 x 3/4 22206 2 Pin 22206 1 Feed Nu 22206 1 Fining 22205 1 Spring 22225 1 Spring 22226 1 Spring 22226 1 Capsorew, 1/4 -20 UNC 00899 4 Capsorew, 1/4 -20 UNC	4 Locknut, 1/4
Part No. City. Descript 22211 A/R Shim 22260 1 Nut Support Weldment 22392 1 Feed Screw Guard 22206 2 Pin Nut Support Weldment 22206 2 Pin Nut Support Weldment 22206 1 Pulnger 22205 1 Pulnger 22205 1 Pulnger 22205 1 Palne	4 Capscrew, 1/4 -20 UNC
Part No. City. 22211 A/R Shim 22261 1 Nul Support W 22392 1 Feed Screw G 200757 4 Roll Pin, 1/8 × 22206 2 Pin 22206 2 Pin 22206 1 Feed Nul 22207 1 Spring	1 Plate
Part No. City. 22211 AR Shim 22261 Nu Support W 22392 1 Foll Pin, 1/8 × 22206 2 Pin 22206 1 Plunger 22205 1 Plunger	_
Part No. City. 22211 A/R Shim 22261 1 Null Support W 22392 1 Feed Screw G 200757 4 Roll Pin, 1/8 x 22266 2 Pin 22266 1 Feed Nul	
Part No. City. 22211 A/R Shim 22260 1 Nut Support W 22392 1 Feed Screw G 00757 4 Roll Pin, 1/8 x 22206 2 Pin	
22211 A/R Shim 22260 1 Nut Support W 22392 1 Feed Screw G 00757 4 Roll Pin, 1/8 ×	2 Pin
Part No. Oty. 22211 A/R Shim 22260 1 Nut Support W 22392 1 Feed Screw G	4 Roll Pin, 1/8
22211 A/R Shim 22260 1 Nut Support W	1 Fee
Part No. Qty.	1 Nut
Part No. City.	A/R Shir
Part No. Qty.	+
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Stanley Hydraulic Tools
Division of The Stanley Works
3810 S.E. Naef Road
Milwaukie, Oregon 97267-5698
Phone: 503/659-5680
Telex: 360771
Fax: 503/652-1780