

# 310-2400/2600 Integrated Zero-Turn Transaxle Service and Repair Manual

BLN-51134 July, 2011

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Headquartered in Sullivan, Illinois, Hydro-Gear<sup>®</sup> is a world leader in the design, manufacture, and service of quality hydrostatic transaxles for the lawn and garden industry. The mission of our company is to be recognized by our customers and the industry as a world-class supplier and the quality leader in everything we do.

This Service and Repair Manual is designed to provide information useful in servicing the Hydro-Gear 310-2400, referred to as the Integrated Zero Turn (IZT<sup>®</sup>), and 310-2600 Charged IZT.

Also included is a glossary of terms that are frequently used throughout the industry and in Hydro-Gear service publications. Understanding terminology is very important!

It is necessary, and good shop practice, that your service area be equipped with proper tools and the mechanics to be supplied with the latest information available. All repair procedures illustrated in this guide are suggested, but preferred methods of repair.

Some repair procedures require that the IZT be removed from the vehicle.

This is not a certification, test or study guide for a certification test. If a technician is interested in certification they should contact an agent representing the ESA (Engine Service Association) (610) 363-3844 or their Hydro-Gear Distributor. Many distributors will be hosting certification testing. These study guides will cover most of the products and manufacturers in our industry.

For more information about Hydro-Gear or our products, please contact your Central Service Distributor, or call our Customer Service Department at (217) 728-2581.

### INTRODUCTION

The purpose of this manual is to provide information useful in servicing the Hydro-Gear<sup>®</sup> Integrated Zero Turn (IZT<sup>®</sup>) transaxle. This manual includes the IZT's general description, hydraulic schematic, technical specifications, servicing and troubleshooting procedures.

The transaxle normally will not require servicing during the life of the vehicle in which it is installed. Should other servicing be required, the exterior of the transaxle will need to be thoroughly cleaned before beginning most procedures.

## **GENERAL DESCRIPTION**

The **310-2400/2600** is a self contained unit designed for the transfer and control of power. It provides an infinitely variable speed range between zero and maximum in both forward and reverse modes of operation.

This transaxle uses a variable displacement pump with a maximum displacement of 10cc per revolution, and motor with a fixed displacement of 21cc per revolution. The variable displacement pump features a cradle mounted swashplate with a direct-proportional displacement control. Reversing the direction of the swashplate reverses the flow of oil from the pump and thus reverses the direction of the motor output rotation.

The pump and motor are of the axial piston design and utilize spherical nosed pistons which are held against a thrust race by internal compression springs. The 310-2400/2600 has a self contained fluid supply and an internal filter. The 310-2400 fluid is forced through the filter by a positive "head" on the fluid in the housing/expansion tank with an assist by the negative pressure created in the pump pistons as they operate. The 310-2600 fluid is drawn through the internal reservoir and feeds the fixed displacement gerotor charge pump. Excess fluid in the charge circuit is discharged over the charge relief valve and dumps back to case.

The check valves in the 310-2400/2600 center section are used to control the makeup flow of the fluid to the low pressure side of the loop.



### WARNING

Actuating the bypass will result in the loss of hydrostatic braking capacity. The machine must be stationary on a level surface and in neutral when actuating the bypass.

A bypass is utilized in the 310-2400/2600 to permit moving the vehicle for a short distance at a maximum of 2 m.p.h. (3.2 Km/h) without starting the engine. The 310-2400/2600 is configured for both floating disc and cog style parking brakes.

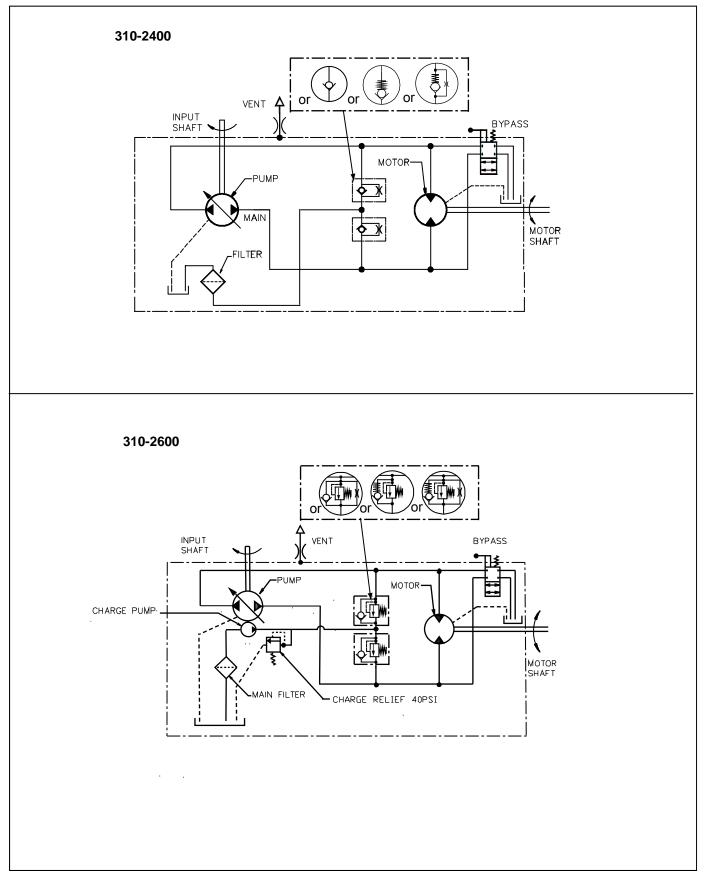


Figure 1. 310-2400/2600 Hydraulic Flow Schematics

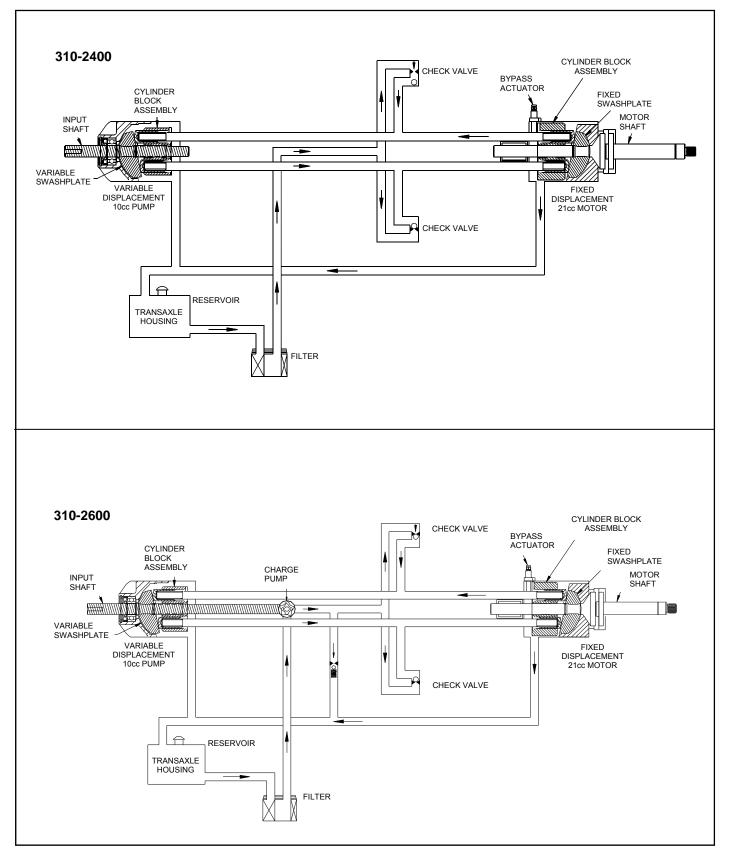


Figure 2. 310-2400 /2600Hydraulic Flow Illustration

### HYDRAULIC SCHEMATIC

Figure 2 provides an illustration of the hydraulic oil circuits. The oil supply for the hydraulic system of the **310-2400 IZT**<sup>®</sup> and charged **310-2600 IZT** is also utilized for lubricating the components of the final drive assembly.

The input shaft and pump cylinder block are turned in one direction only by the engine/drive belt/pulley combination. Output of the oil flow is controlled by the direction and amount that the variable swashplate is angled. As the pump pistons compress they force the oil to flow through one of two passageways (forward or reverse) in the center section to the motor cylinder block and motor shaft. Since the motor has a fixed displacement angle it is forced to turn with the flow of oil. As the angle of the pump swashplate is increased the amount of oil being pumped will increase and cause a higher speed output of the motor. Reversing the angle of the swashplate will reverse the direction of oil flow.

During the operation of the transaxle, fluid is "lost" from the hydraulic loop through leak paths designed into the product for lubrication purposes (around pistons, under the rotating cylinder blocks, etc.). This "lost" fluid returns to the transaxle housing, then is pulled back into one of the check valves depending upon the direction of vehicle operation. All of this oil must pass through an internal filter.

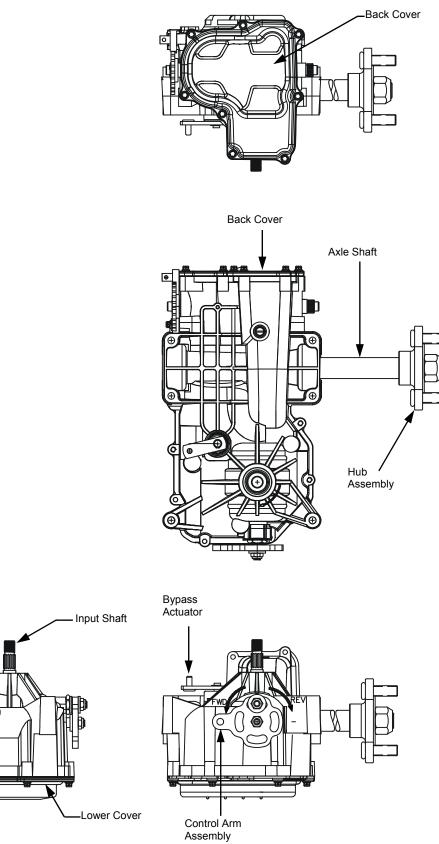
Oil is forced through the filter by low inlet pressure only on the 310-2400, but is pulled by a charge pump circuit on the 310-2600. The motor cylinder block mounts onto a splined motor shaft which drives the gear train.

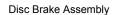
A charge pump is included on the IZT to supply this makeup flow. The make up flow is controlled (or directed) by the check valves. Each check valve will either be held opened or closed (depending upon the direction of vehicle operation) by the system operating pressure (closed) or by charge pressure (open) from the charge pump.

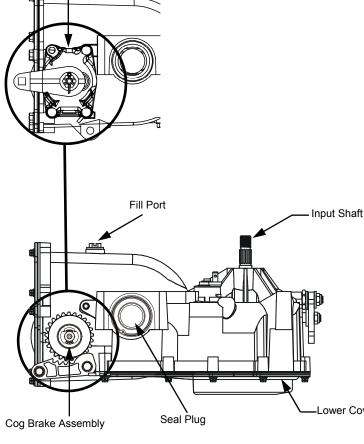
The charge pump maintains a continuous flow of oil as long as the input shaft is turning. All of the oil being pulled into the charge pump first must pass through an internal filter. Any oil not needed by the transmission for make up flow is discharged through the charge relief valve. The charge relief valve maintains the charge pressure at no more than 40 PSI (2.76 bar).

The bypass feature in the 310-2600 has a mechanical lever which lifts the motor block off of the center section running surface, allowing any oil flowing from the pump block to be discharged into the housing without turning the motor.

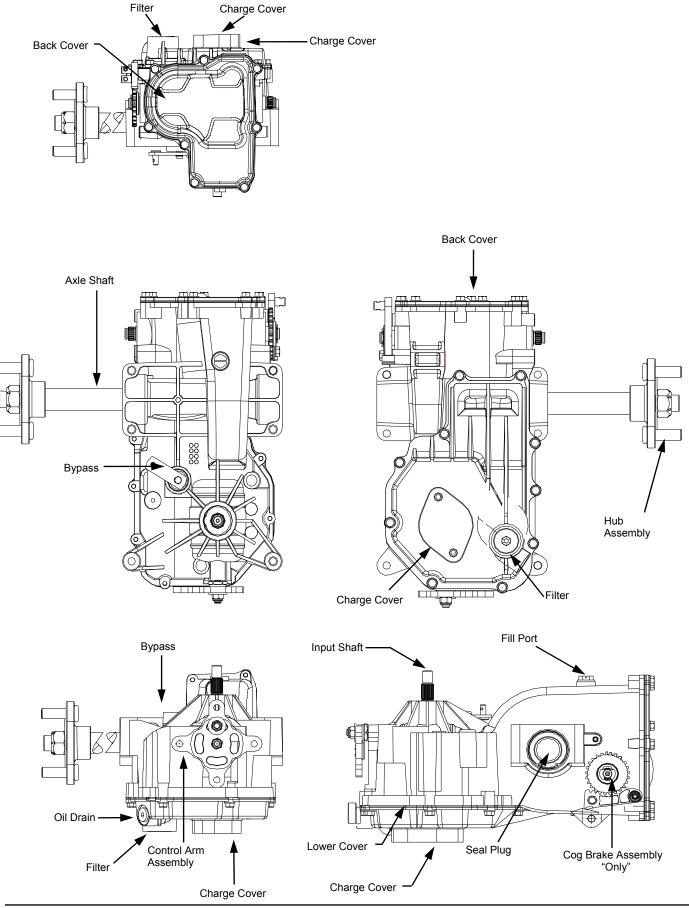
### **EXTERNAL FEATURES 310-2400L**







### **EXTERNAL FEATURES 310-2600R**



## **TECHNICAL SPECIFICATIONS**

#### 310-2400

**Overall Transaxle Reduction** 19.2:1

Input Speeds Maximum: 3000 RPM Minimum: 1800 RPM

**Tire Diameter** 18 in maximum; 45.7cm with 325 lbs; 147.4 kg maximum weight on tires

#### Axle Shaft Options

Type: Keyed / Double "D" Diameter: 0.984 inch; 25.0 mm Type: Flanged Diameter: Hub

Brake Type Disc, Parking Cog, Parking

Weight of Unit 30 lb; 13.6 kg

#### 310-2600

**Overall Transaxle Reduction** 19.2:1

Input Speeds Maximum: 3400 RPM Minimum: 1800 RPM

**Tire Diameter** 20 in maximum; 45.7cm with 325 lbs; 147.4 kg maximum weight on tires Axle Shaft Options Type: Keyed / Double "D" Diameter: 0.984 inch; 25.0 mm Type: Flanged Diameter: Hub

Brake Type Cog, Parking

Weight of Unit 31 lb; 14 kg

#### Table 1. 310-2400/2600 Technical Specifications

### **PRODUCT IDENTIFICATION**

The model and configuration of the 310-2400/2600  $\rm IZT^{\$}$  can be determined from the label shown in Figure 3.

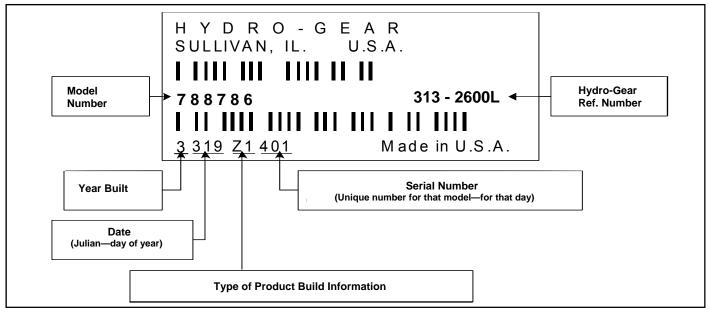


Figure 3. 310-2600 Configuration Label

# **SECTION 2. SAFETY**

This symbol points out important safety instructions which, if not followed, could endanger the personal safety and/or property of yourself and others. Read and follow all instructions in this manual before attempting maintenance on your transaxle. When you see this symbol - **HEED ITS WARNING.** 



### WARNING

#### POTENTIAL FOR SERIOUS INJURY

Inattention to proper safety, operation, or maintenance procedures could result in personal injury, or damage to the equipment. Before servicing or repairing the 310 -2400 IZT, fully read and understand the safety precautions described in this section.

### PERSONAL SAFETY

Certain safety precautions must be observed while servicing or repairing the 310-2400 IZT<sup>®</sup>. This section addresses some of these precautions but must not be considered an allinclusive source on safety information. This section is to be used in conjunction with all other safety material which may apply, such as:

- 1) Other manuals pertaining to this machine,
- 2) Local and shop safety rules and codes,
- 3) Governmental safety laws and regulations.

Be sure that you know and understand the equipment and the hazards associated with it. Do not place speed above safety.

Notify your supervisor whenever you feel there is any hazard involving the equipment or the performance of your job.

Never allow untrained or unauthorized personnel to service or repair the equipment.

Wear appropriate clothing. Loose or hanging

clothing or jewelry can be hazardous. Use the appropriate safety equipment, such as eye and hearing protection, and safety-toe and slipproof shoes.

Never use compressed air to clean debris from yourself or your clothing.

### **TOOL SAFETY**

Use the proper tools and equipment for the task.

Inspect each tool before use and replace any tool that may be damaged or defective.

### WORK AREA SAFETY

Keep the work area neat and orderly. Be sure it is well lit, that extra tools are put away, trash and refuse are in the proper containers, and dirt or debris have been removed from the working areas of the machine.

The floor should be clean and dry, and all extension cords or similar trip hazards should be removed.

### SERVICING SAFETY

Certain procedures may require the vehicle to be disabled in order to prevent possible injury to the servicing technician and/or bystanders.

The loss of hydrostatic drive line power may result in the loss of hydrostatic braking capability. Proper brake maintenance is very important should this condition develop.

Some cleaning solvents are flammable. Use only approved cleaning materials. Do not use explosive or flammable liquids to clean the equipment.

To avoid possible fire do not use cleaning solvents in an area where a source of ignition may be present.

Discard used cleaning material in the appropriate containers.

# **SECTION 3. TROUBLESHOOTING**



### WARNING

Do not attempt any servicing or adjustments with the engine running. Use extreme caution while inspecting the drive belt assembly, and all vehicle linkage!

Follow all safety procedures outlined in the vehicle owner's manual!

In many cases problems with the 310-2400/2600 IZT are not related to a defective transaxle, but are caused by slipping drive belts, partially engaged bypass valves, and loose or damaged control linkages. Be sure to perform all operational checks and adjustments outlined in Section 4, Service and Maintenance before assuming the unit is malfunctioning. Table 2 below provides a troubleshooting check list to help determine the cause of operational problems.

Possible Cause	Corrective Action		
UNIT OPERATES IN	ONE DIRECTION ONLY		
Control linkage bent or out of adjustment Drive belt slipping or pulley damaged	Repair or replace linkage, Page 11 Repair or replace drive belt or pulley, Page 11		
VEHICLE DOES NOT [	DRIVE/TRACK STRAIGHT		
Vehicle tires improperly inflated Control linkage bent, loose or out of adjustment Bypass partially engaged	Refer to vehicle manufacturer suggested pressure Repair, adjust or replace vehicle linkage Adjust bypass linkage		
UNITI	SNOISY		
Oil level low or contaminated oil Excessive loading Brake setting incorrect Loose parts Bypass assembly sticking Air trapped in hydraulic system Filter clogged with debris	Fill to proper level or change oil, Page 12 Reduce vehicle loading, Page 11 Adjust brake to proper setting, Page 15 Repair or replace loose parts Repair or replace valve or linkage Purge hydraulic system, Page 13 Replace filter, Page 12		
UNIT HAS NO	D/LOW POWER		
Engine speed low Control linkage bent or out of adjustment Brake setting incorrect Drive belt slipping or pulley damaged Oil level low or contaminated oil Excessive loading Bypass assembly sticking Air trapped in hydraulic system Filter clogged with debris	Adjust to correct setting Repair or replace linkage, Page 11 Adjust brake to proper setting, Page 15 Repair or replace drive belt or pulley, Page 11 Fill to proper level or change oil, Page 12 Reduce vehicle loading, Page 11 Repair or replace valve or linkage Purge hydraulic system, Page 13 Replace filter, Page 12		
UNIT OPEI			
Debris buildup around transaxle Brake setting incorrect Cooling fan damaged Oil level low or contaminated oil Excessive loading Air trapped in hydraulic system	Clean off debris, Page 11 Adjust brake to proper setting, Page 15 Repair or replace cooling fan Fill to proper level or change oil, Page 12 Reduce vehicle loading, Page 11 Purge hydraulic system, Page 13		
TRANSAXLE LEAKS OIL			
Damaged seals, housing, or gaskets Air trapped in hydraulic system	Replace damaged component Purge hydraulic system, Page 13		

#### Table 2. 310-2400 Troubleshooting Checklist

# **SECTION 4. SERVICE AND MAINTENANCE**

NOTE: Any servicing dealer attempting a warranty repair must have prior approval before conducting maintenance of a Hydro-Gear product unless the servicing dealer is a current Authorized Hydro-Gear Service Center.

### EXTERNAL MAINTENANCE

Regular external maintenance of the 310-2400 IZT<sup>®</sup> should include the following:

- 1. Check the vehicle operator's manual for the recommended load ratings. Insure the current application does not exceed load rating.
- 2. Check oil level and quality in accordance with Figure 4 Page 12.
- Inspect the vehicle drive belt, idler pulley (s), and idler spring(s). Insure that no belt slippage can occur. Slippage can cause low input speed to the transmission.
- 4. Inspect the transmission cooling fan for broken or distorted blades and remove any obstructions (grass clippings, leaves, dirt, etc.).
- 5. Inspect the axle parking brake and vehicle linkage to insure proper actuation and adjustment of the parking brake.
- 6. Inspect the vehicle control linkage to the directional control arm on transaxle. Also, insure the control arm is securely fastened to the trunnion arm of the transaxle.
- 7. Inspect the bypass mechanism on the transaxle and vehicle linkage to insure it actuates and releases fully.

### SERVICE AND MAINTENANCE PROCEDURES

All the service and maintenance procedures presented on the following pages can be performed while the 310-2400/2600 is mounted on the vehicle. Any repair procedures as mentioned in the repair section of this manual must be performed after the unit has been removed from the vehicle.

# FLUIDS

The fluids used in Hydro-Gear<sup>®</sup> products have been carefully selected, and only equivalent, or better products should be substituted.

Typically, an engine oil with a minimum rating of 55 SUS (9 cSt) at 230°F (110° C) and an API classification of SL is recommended. A SAE 20W-50 engine oil has been selected for use by the factory and is recommended for normal operating temperatures.

### FLUID VOLUME AND LEVEL

Fluid volume information is provided in Table 3.

Certain situations may require additional fluid to be added or even replaced. Refer to Figure 4 for the proper fill port location.

#### CAUTION Do not overfill.

If you overfill the transaxle while the unit is "cold", it may overflow as it reaches normal operating temperatures. The oil level should not be above the manufacturer's suggestions outlined in this manual. This will allow the space needed for the oil to expand as it warms up. Recheck the fluid level once the unit has been operated for approximately 1 minute.

Purging may be required. Refer to the purging procedures on page 13.

### **FLUID CHANGE**

The 310-2400 transaxle is factory filled, sealed and does not require oil maintenance. However, in the event of oil contamination or degradation, oil addition or change may alleviate certain performance problems.

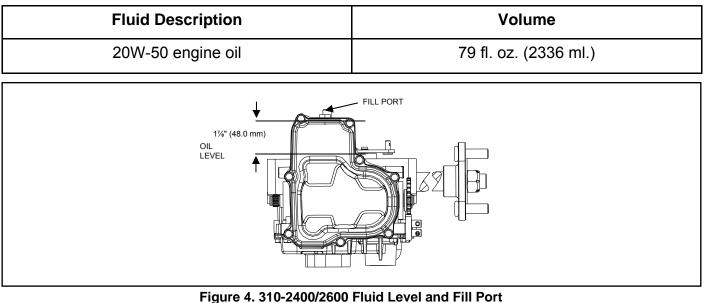
310-2600 charged IZT<sup>®</sup> oil change requirements may vary with usage. But, regular maintenance filter and oil change at 200 hour intervals is recommended.

It is essential that the unit exterior be free of debris prior to fluid maintenance.

Remove the oil drain plug (87) to facilitate oil change. Refer to figure 14. Page 25. To reinstall oil drain plug reference table 5. for proper torque.

IMPORTANT: When tightening the filter insure proper torque value 20-50 in lbs (2-6 Nm) is applied. Filter is plastic. Excessive torque will damage filter.

Table 3. Fluid Volumes for the 310-2400/2600 IZT



310-2400/2600 IZT®

### **PURGING PROCEDURES**

Due to the effects air has on efficiency in hydrostatic drive applications, it is critical that it be purged from the system.

These purge procedures should be implemented any time a hydrostatic system has been opened to facilitate maintenance or any additional oil has been added to the system.

Air creates inefficiency because its compression and expansion rate is higher than that of the oil normally approved for use in hydrostatic drive systems.

The resulting symptoms in hydrostatic systems may be:

- 1. Noisy operation.
- 2. Lack of power or drive after short term operation.
- High operation temperature and excessive expansion of oil.

Before starting, make sure the transaxle/ transmission is at the proper oil level. If it is not, fill to the specifications outlined on page 12, Figure 4. The following procedures should be performed with the vehicle drive wheels off the ground, then repeated under normal operating conditions.

- With the bypass valve open and the engine running, slowly move the directional control in both forward and reverse directions 5 to 6 times, as air is purged from the unit, the oil level will drop.
- 2. With the bypass valve closed and the engine running, slowly move the directional control in both forward and reverse directions (5 to 6 times). Check the oil level, and add oil as required after stopping engine.
- 3. It may be necessary to repeat Steps 1 and 2 until all the air is completely purged from the system. When the transaxle moves forward and reverse at normal speed purging is complete.

### **RETURN TO NEUTRAL SETTING**



### WARNING

#### POTENTIAL FOR SERIOUS INJURY

Certain procedures require the vehicle engine to be operated and the vehicle to be raised off the ground. To prevent possible injury to the servicing technician and/or bystanders, insure the vehicle is properly secured.

The return to neutral mechanism on the transmission is designed to set the directional control into a neutral position when the operator removes their hands from the control. Follow the procedures below to properly adjust the return to neutral mechanism on the transaxle:

1. Confirm the transaxle is in the operating mode (bypass disengaged). Raise the vehicle's drive tires off the ground to allow free rotation.

NOTE: It may be necessary to remove the drive tire from the axle hub to access the linkage control and the transaxle return arm.

- Remove the Original Equipment Manufacturer's (OEM's) control linkage at the return arm. Refer to Figure 5.
- 3. Start the engine and increase the throttle to full engine speed.



#### WARNING

Do not attempt any adjustments with the engine running. Use extreme caution while inspecting all vehicle linkage!

Follow all safety procedures outlined in the vehicle owner's manual.

- 4. Check for axle rotation. If the axles do not rotate, go to Step 5. If the axles rotate, go to Step 6.
- Stop the vehicle's engine. Reattach and adjust the OEM linkage to the return arm according to the OEM manual. Recheck according to Step 3 and 4. Stop the vehicle engine. Refer to Figure 5.
- 6. Note the axle directional movement. Stop the vehicle engine. Loosen the lock down screw until the return arm can be rotated. Refer to Figure 5 below to make adjustment. In general, rotate the return arm in the direction opposite of axle rotation. If the axle is rotating in the "B" direction, rotate the return arm in the "A" direction, and vice-versa. Continue until axle rotation stops. Tighten the lock down screw. Refer to Table 5 Required Torque Values, Page 17. Recheck according to steps 3 and 4. Stop the vehicle engine. Reattach and adjust the OEM linkage according to the OEM manual. Recheck according to steps 3 and 4. Refer to Figure 5.

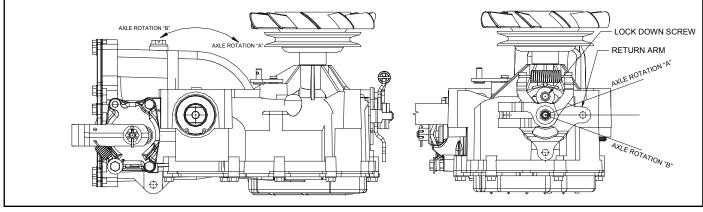


Figure 5. Return to Neutral Control

### **BRAKE MAINTENANCE**

#### **COG BRAKE MAINTENANCE**

- 1. Check the brake arm teeth for damage or excessive wear. Replace if necessary.
- 2. Check for excessive looseness at brake arm pivot point.

#### **DISC BRAKE MAINTENANCE**

#### (310-2400 Only)

- 1. Remove the brake return spring, and then the cotter pin securing the brake castle nut.
- Insert a 0.020" (0.5 mm) feeler gage between the brake rotor and outer brake friction stator, and then set the brake by tightening or loosening the castle nut.
- 3. Install a new cotter pin to secure the castle nut, and then install the brake arm bias spring.

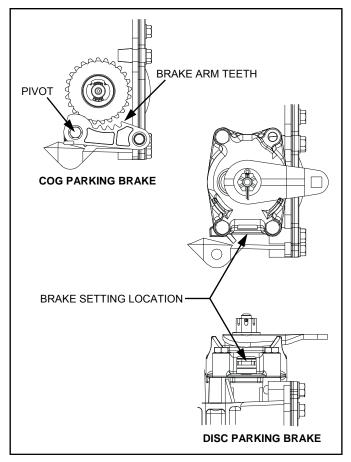


Figure 6. Brake Options

### FRICTION PACK ADJUSTMENT

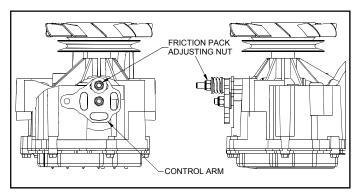
The friction pack dampens or holds the operator control lever in its desired position.

Adjustment for the amount of drag or holding force can be made by turning the friction pack nut in or out.

Adjustments should be made in no more than 1/4 turn increments.

Over-tightening will result in difficulty or inability of the operator to move the control lever.

<u>Note:</u> The factory setting for the friction pack is assembly of the nut to 100 in-lbs (11 Nm) torque. The friction pack nut is then backed off per vehicle manufacturer's specifications.



**Figure 7. Friction Pack** 

### HOW TO USE THIS SECTION

Each subassembly illustrated in this section is illustrated by an exploded view showing the parts involved. **The item reference numbers in each illustration are for assembly instructions only.** See pages 34,35,36 and 37 for part names and descriptions. A complete exploded view and item list of the transaxle is provided at the end of this section.

Many of the parts and subassemblies of this transaxle can be removed and serviced independently of other components. Where some components and assemblies must be removed before a given assembly can be serviced, that information is given at the beginning of the disassembly instructions.

### **GENERAL INSTRUCTIONS**

Cleanliness is a primary means of assuring satisfactory life on repaired units. Thoroughly clean all exposed surfaces prior to any type of maintenance. Cleaning of all parts by using a solvent wash and air drying is usually adequate. As with any precision equipment, all parts must be kept free of foreign material and chemicals.

Protect all exposed sealing surfaces and open cavities from damage and foreign material. The external surfaces should be cleaned before beginning any repairs.

Upon removal, it is recommended that all seals, O-rings, and gaskets be replaced. During installation lightly lubricate all seals, O-rings, gaskets with a clean petroleum jelly prior to assembly. Also protect the inner diameter of seals by covering the shaft with a cellophane (plastic wrap, etc.) material.

Parts requiring replacement must be replaced from the appropriate kits identified in the Items Listing, found at the end of this manual. Use only original Hydro-Gear replacement parts found on the Hydro-Gear service schematics at www.hydro-gear.com.

#### TRANSAXLE REMOVAL

It is necessary to remove the 310-2400/2600 from the vehicle before performing the repair procedures presented in this section. Use the following procedure to prepare the unit for removal from the vehicle.

- With the vehicle wheels on the ground, loosen the <sup>3</sup>/<sub>4</sub>-16 hex nut (108, Figure 12) Page 23, if so equipped. Use an air impact wrench and a 1-1/8" socket to loosen the nut.
- 2. Lift the vehicle wheels off the ground and remove the nut completely.
- 3. Remove the wheel from the hub.
- 4. Using a wheel or gear puller, remove the

#### CAUTION

USE CARE IN REMOVING THE HUB TO PREVENT CRACKING.

hub from the shaft.

#### LIMITED DISASSEMBLY

The following procedures are presented in the order in which they must be performed to completely disassemble the unit. Do not disassemble the unit any farther than is necessary to accomplish the required repairs. Each disassembly procedure is followed by a corresponding assembly procedure.

Reassembly is accomplished by performing the "Assembly" portions of the procedures. If the unit has been completely disassembled, a summary of the assembly procedures, in the order in which they should occur, is given on page 31.

### **TOOLS AND TORQUES**

#### Table 4. Required Tools

Miscellaneous	Sockets
310-2400 Service & Repair Manual	3/8"
Flat Blade Screw Driver	1/2"
Torque Wrench	7/16"
Air Impact Wrench	9/16"
Rubber Mallet	E-8 Torx Head
Pliers	Wrenches
Needle Nose	1/2"
Large External Snap Ring	5 mm Allen
Small External Snap Ring	3/8" Allen
Large Internal Snap Ring	1/4" Allen

#### Table 5. Required Torque Values

Operation Wheel Hub Nut Fan/Pulley Nut Back Cover Screws Friction Pack Stud Control Arm Nut Control Bolt Brake Yolk Screw Cog Brake Arm Screw Check Plug Assembly	U.S. Torque 200-295 ft-lbs 540-660 in-lbs 110-150 in-lbs 50-120 in-lbs 180-240 in-lbs 192-252 in-lbs 80-120 in-lbs 110-150 in-lbs 200-360 in-lbs	Metric Torque 271-400 Nm 61-74 Nm 12-17 Nm 6-14 Nm 20-27 Nm 22-28 Nm 9-14 Nm 12-17 Nm 23-41 Nm	<b>Item</b> 108 49 50 36 35 76/121 123/211 123 45	Description Nut, Hex 3/4-16 Nut, Patch Lock 1/2-20 Screw, 1/4-20 Stud, 5/16-24 Nut, 5/16-24 Nut/Bolt, 5/16-18 Screw, 1/4-28 Screw, Hex 1/4-20 Check Plug Assembly
		• • • • • • • • • • • • • • • • • • • •		
				,
				,
Brake Yolk Screw	80-120 in-lbs	9-14 Nm	123/211	Screw, 1/4-28
Cog Brake Arm Screw	110-150 in-lbs	12-17 Nm	123	Screw, Hex 1/4-20
Check Plug Assembly	200-360 in-lbs	23-41 Nm	45	Check Plug Assembly
Lower Housing Screw	110-150 in-lbs	12-17 Nm	50	Screw, 1/4-20
Center Section Screw	450-550 in-lbs	50-61 Nm	44	Screw, 3/8-24
Lock Down Screw	210-270 in-lbs	24-30 Nm	208	Screw, 5/16-24 (Lock-Down)
Oil Drain Plug	180-240 in-lbs	20-27 Nm	87	Plug , 9/16-18 (Metal)
Filter	20-50 in-lbs	2-6 Nm	46	Assembly, Filter
Charge Cover Screws	87-100 in-lbs	9-11 Nm	86	SHCS M6 X 20

## **BACK COVER**

Refer to Figure 8.

### DISASSEMBLY

- 1. Remove the eight screws (50) from the back cover (13), and discard.
- 2. Remove the back cover (13). Take care not to damage the casting surfaces.
- 3. Clean off the sealant from the mating surfaces of the back cover (13) and the main housing assembly (1).

### INSPECTION

1. Inspect the back cover (13) for excessive wear or damage.

- 1. Apply sealant to the back cover (1). Refer to page 29.
- 2. Place the back cover (13) onto the main housing assembly (1).
- 3. Install the eight replacement screws (50) to secure the back cover (13) to the main housing assembly (1). Tighten the eight screws (50) to the torque value listed in Table 5.

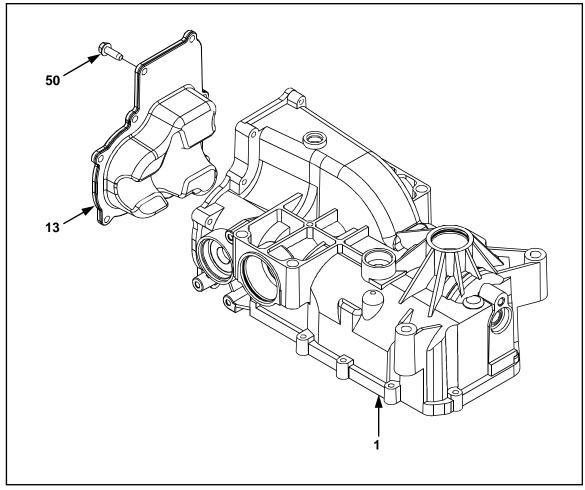


Figure 8. Back Cover Assembly

### (Cog Brake)

Refer to Figure 9.

### DISASSEMBLY

- 1. Remove the external retaining ring (63).
- Remove the brake bolt (123), brake arm (70) and brake disc (73). Note the orientation of the hub on the brake disc.

### INSPECTION

- 1. Inspect the brake disc (73) for damaged splines or gear teeth.
- 2. Inspect the brake arm (70) for damaged teeth.

- 1. Insert the brake shaft (55) into the main housing (1). Slide the brake disc (73) onto the brake shaft (55). Note the orientation of the brake disc. The hub on the brake disc should face inward on R.H. units and outward on L.H. units.
- Install the brake arm (70) and brake bolt (123) onto the main housing (1). Tighten the brake bolt (123) to the torque value listed in Table 5.
- 3. Install an external retaining ring (63) onto the brake shaft (55).

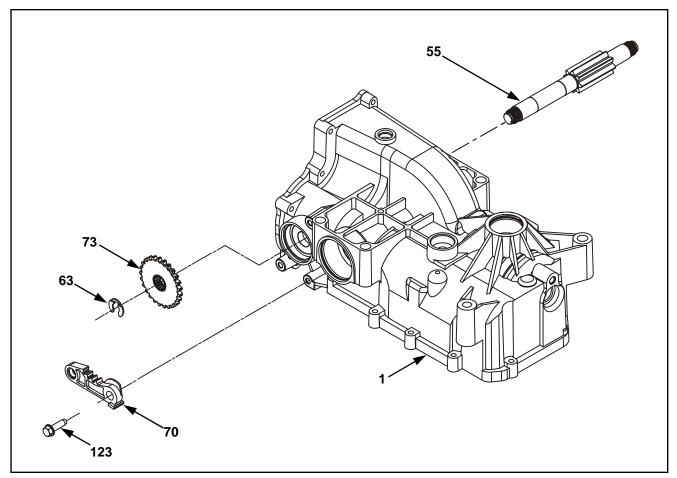


Figure 9. Cog Brake Assembly

## BRAKES

### (Disc Brake 310-2400 Only)

Refer to Figure 10.

### DISASSEMBLY

- 1. Remove the cotter pin (128) and slotted hex nut (133). Discard the cotter pin.
- 2. Remove the washer (19), brake arm (70), compression spring (130) and brake actuating pins (129).
- 3. Remove the three brake yoke screws (123). Remove the brake yoke (131).
- 4. Remove the stators (127) and rotor (73).

#### INSPECTION

1. Inspect the brake components for excessive wear. Replace if necessary.

- 1. Slide the stators (127) and rotor (73) onto the brake shaft (55, Figure 11). Pay close attention to the stack up of the stators and rotor.
- 2. Install the brake yoke (131) with the three brake yoke screws (123) onto the main housing (1). Refer to Table 5 for the required torque.
- 3. Install the brake actuating pins (129) and compression spring (130) onto the brake yoke (131).
- Install the brake arm (70), washer (19) and slotted hex nut (133) onto the brake yoke (131). Do not tighten the slotted hex nut (133) at this time.
- Insert a .020" (0.5 mm) feeler gage between the brake rotor (73) and outer stator (127). Adjust the brake by tightening or loosening the slotted hex nut (133).
- 6. Install a new cotter pin (128) to secure the slotted hex nut (133).

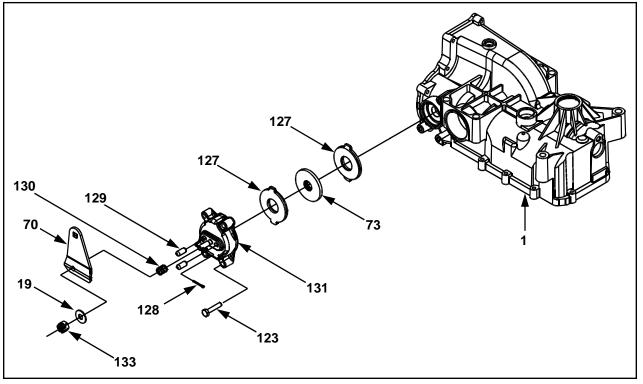


Figure 10. Disc Brake Assembly

**BRAKE SHAFT & BEVEL GEAR** 

Refer to Figure 11.

#### DISASSEMBLY

- 1. Remove the back cover. See page 18.
- 2. Remove the brake. See pages 19-20.
- 3. Remove the brake shaft lip seals (58) and retaining rings (126). Discard the lip seals (58).
- 4. Remove the retaining ring (67) from the outside of the ball bearing (26).
- 5. Remove the brake shaft (55) and ball bearing (26) from the 19 tooth bevel gear (52). It may be necessary to tap lightly on the brake shaft (55) to remove the bearing (26).
- 6. Remove the 19 tooth bevel gear (52).

#### INSPECTION

1. Inspect the brake shaft (55), ball bearing (26) and bevel gear (52) for wear or damage.

- Insert the brake shaft (55) and ball bearing (26) into the main housing (1) allowing the brake shaft (55) to pass through the 19 tooth bevel gear (52).
- 2. Install the retaining ring (67).
- 3. Install the brake shaft lip seals (58) and retaining rings (126).
- 4. Install the brake. See pages 19-20.
- 5. Install the back cover. See page 18.

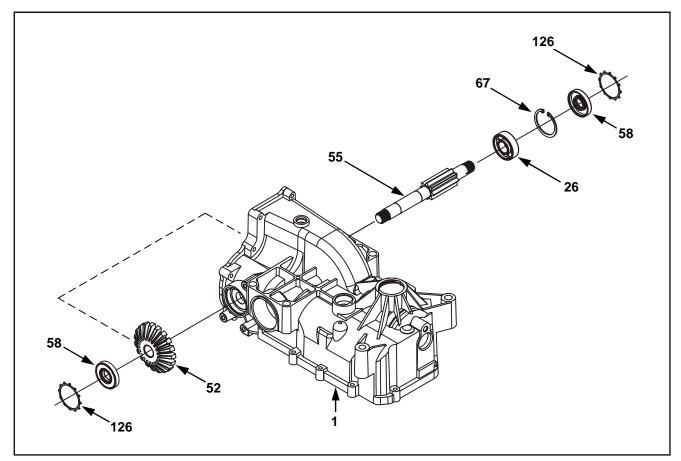


Figure 11. Brake Shaft & Bevel Gear Assembly

## **AXLE SHAFT & SPUR GEAR**

Refer to Figure 12.

### DISASSEMBLY

- 1. Remove the back cover. See page 18.
- 2. Remove the brake. See page 19-20.
- 3. Remove the brake shaft and bevel gears. See page 21.
- 4. Remove the hub assembly (107), if not already removed.

Note: The orientation of the hub and axle to the main housing is critical in reassembly.

- 5. Remove the retaining ring (68) from the outside of the axle shaft seal (66).
- 6. Remove the axle shaft seal (66) and discard.
- 7. Remove the retaining ring (68) from the outside of the side seal plug (60).
- 8. Remove the side seal plug (60) by lightly tapping on the end of the axle shaft (56) with a plastic or rubber mallet. Discard the side seal plug (60).
- 9. Remove the axle shaft retaining ring (62) from the axle shaft (56).
- Remove the axle shaft (56) from the main housing assembly (1). Remove the ball bearings (64 & 65) from the axle shaft (56). Note the orientation of the axle shaft bushings (81 & 82). This is important for reassembly. Remove the two axle shaft bushings (81 & 82) and spur gear (53) from the inside of the main housing (1).

#### INSPECTION

- 1. Inspect the ball bearings (64 & 65) and axle shaft (56) for wear or damage.
- 2. Inspect the spur gear (53) for wear or damage.

- Place the spur gear (53) and axle bushings (81&82), per noted orientation, into the main housing (1).
- Insert the axle shaft bearing (64) and axle shaft (56) into the main housing (1). (A clean screwdriver may be used to help align the gear and bushings during installation).
- 3. Place the axle retaining ring (62) onto the end of the axle shaft (56).
- 4. Using a rubber or plastic mallet, lightly tap a new side seal plug (60) into the main housing (1). Install the seal plug retaining ring (68).
- 5. Slide the axle shaft bearing (65) onto the hub end of the axle shaft (56).
- Slide the axle seal (66) onto the axle shaft (56). Remember to protect the seal (66) during installation by covering the axle shaft (56) with cellophane. Remove the cellophane once the seal (66) is installed.
- 7. Install the retaining ring (68).
- 8. Install the hub assembly (107) and nut (108) with the bolt threads facing away from the transaxle.
- 9. Install the brake shaft and bevel gear. See page 21.
- 10. Install the brake. See pages 19-20.
- 11. Install the back cover. See page 18.

## **AXLE SHAFT & SPUR GEAR**

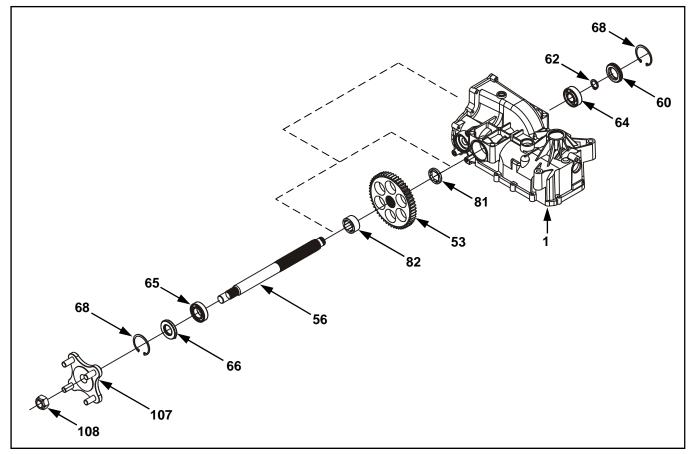


Figure 12. Axle Shaft & Spur Gear Assembly

## LOWER HOUSING & FILTER

Refer to Figure 13.

### DISASSEMBLY 310-2400

- 1. Remove the ten screws (50) holding the lower housing (2) to the main housing (1), and discard.
- 2. Remove the lower housing (2) and old sealant. Take care not to damage the casting surfaces.
- 3. Remove and discard the internal filter (46).

### INSPECTION

1. Inspect the lower housing (2) for excessive wear or damage.

- 1. Install a new filter (46).
- Apply sealant to the lower housing (2) where the lower housing (2) mates with the main housing (1). Refer to page 29.
- 3. Place the lower housing (2) on the main housing (1).
- 4. Install the ten replacement screws (50) that hold the lower housing (2) to the main housing (1).
- 5. Torque the ten screws (50) to the value listed in Table 5.

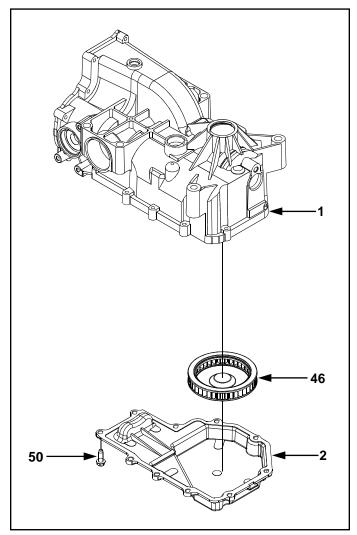


Figure 13. Lower Housing & Filter 310-2400

### LOWER HOUSING & FILTER

Refer to Figure 14.

#### DISASSEMBLY 310-2600

- 1. Place an orientation mark on the charge cover.
- 2. Remove the two screws (86), charge cover (85), o-ring (83) and gerotor assembly (84).
- 3. Remove filter assembly (46).
- 4. Remove the ten screws (50) holding the lower housing (2) to the main housing (1), and discard.
- 5. Remove the lower housing (2) and old sealant. Take care not to damage the casting surfaces.

### INSPECTION

1. Inspect the lower housing (2) for excessive

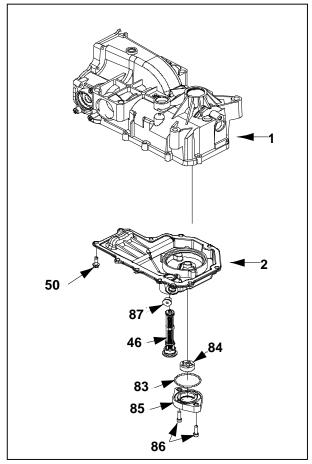


Figure 14. Lower Housing & Filter 310-2600

wear or damage.

2. Inspect charge cover (85) and gerotor (84) for excessive wear or damage.

### ASSEMBLY

- 1. Apply sealant to the lower housing (2) where it mates with the main housing (1). Refer to page 29.
- 2. Place the lower housing (2) on the main housing (1).
- 3. Install the ten replacement screws (50) that hold the lower housing (2) to the main housing (1).
- 4. Torque the ten screws (50) to the value listed in Table 5.
- 5. Install a new filter (46).

IMPORTANT: When tightening the filter insure proper torque value 20-50 in lbs (2-6 Nm) is applied. Filter is plastic. Excessive torque will damage filter.

### **MOTOR SHAFT & BEVEL GEAR**

Refer to Figure 15.

### DISASSEMBLY

- 1. Remove the back cover. See page 18.
- 2. Remove the brake. See pages 19 & 20.
- 3. Remove the brake shaft & bevel gear. See page 21.
- 4. Remove the axle shaft & spur gear. See pages 22 & 23.
- 5. Remove the 14 tooth bevel gear (51) from the motor shaft (54).
- Remove the motor shaft (54), wire retaining ring (27) and bearing assembly (26) from the main housing (1). Note: The bearing (26) does not fit flush with the housing. This is important for reassembly.

### INSPECTION

1. Inspect the gear (51), shaft (54) and bearing (26) for wear or damage.

- Install the motor shaft (54), bearing assembly (26) and wire retaining ring (27). Note: The splines must be aligned when inserting the motor shaft (54).
- 2. Install the 14 tooth bevel gear (51) on the end of the motor shaft (54).
- 3. Install the axle shaft and spur gear. See pages 22 and 23.
- 4. Install the brake shaft and bevel gear. See page 21.
- 5. Install the brake. See pages 19 and 20.
- 6. Install the back cover. See page 18.

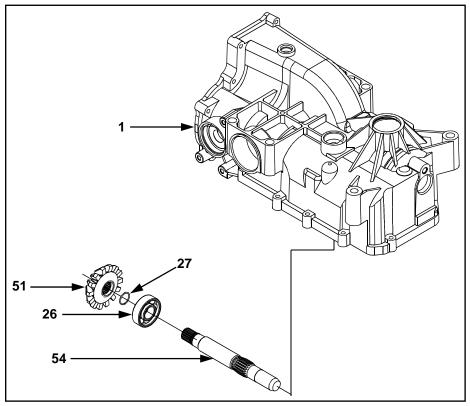


Figure 15. Motor Shaft & Bevel Gear Assembly

Refer to Figure 16.

### DISASSEMBLY

- 1. Remove the back cover. See page 18.
- 2. Remove the brake assembly. See pages 19 and 20.
- 3. Remove the brake shaft and bevel gear. See page 21.
- 4. Remove the axle shaft and spur gear. See pages 22 and 23.
- 5. Remove the lower housing and filter. See page 24 and 25.
- 6. Remove the motor shaft and bevel gear. See page 26.
- Remove the three screws (44) holding the center section (3) to the upper housing (1). Lift to remove the center section (3) and motor cylinder block assembly (21). Remove the two pins (43).
- Remove the motor cylinder block assembly (21).
- Remove the motor block thrust bearing assembly (25). Note: The thick race is located nearest to the pistons when assembled properly.
- 10. Remove the pump block assembly (15).
- 11. Remove the pump block spring (14), washer (24) and swashplate assembly (10).
- 12. Remove the thrust bearing assembly (11). Note: The thick race is located nearest to the pistons when assembled properly.
- 13. Remove the slot guide (30, Fig. 17).
- 14. Remove the bypass arm retaining ring (42), bypass arm (41) and bypass lip seal (40). Discard the lip seal.

#### INSPECTION

- 1. Check the pistons in the motor and pump blocks for free movement.
- 2. Remove and inspect the pistons, springs and seats for wear or damage.
- 3. Inspect the piston bores in the cylinder blocks for wear or damage.
- 4. Check the running surface of the motor and pump cylinder blocks for damage. This surface must be smooth in the three sealing areas. Reassemble the motor and pump cylinder block assemblies and set aside.
- 5. Inspect the bushing in the center section and the by-pass plate (38).
- Check the motor and pump cylinder block running surfaces on the center section (3). This surface should be smooth. Drag a fingernail across it to detect scratches or smearing.
- 7. Inspect the thrust bearing assemblies (11 and 25) for wear or damage.

- 1. Install a new bypass lip seal (40). Install the bypass arm (41) and retaining ring (42) onto the bypass actuator (39).
- 2. Install the slot guide (30, Fig. 17).
- Install the swashplate assembly (10) (including the thrust bearing assembly).
   Note: Install the thrust bearing assembly (11) with the thick race towards the pistons.
- 4. Actuate the trunnion arm (31) and swashplate (10) to verify free movement.
- 5. Install the pump block washer (24) and spring (14).
- 6. Install the pump block assembly (15).
- 7. Center the by-pass actuator (39) in the housing pocket.

### **CENTER SECTION, CYLINDER BLOCKS AND BYPASS**

- 8. Install the two pins (43).
- Install the by-pass plate (38) into the center section (3). Install the center section (3) and motor cylinder block assembly (21).
- 10. Install the three screws (44) that hold the center section (3) in place.
- 11. Install the thrust bearing assembly (25). Note: Install the thrust bearing assembly with the thick race towards the pistons.
- 12. Install the motor shaft and bevel gear. See page 26.

- 13. Install the filter and lower housing. See page 24 and 25.
- 14. Install the axle shaft and spur gear. See pages 22 and 23.
- 15. Install the brake shaft and bevel gear. See page 21.
- 16. Install the brake. See pages 19 and 20.
- 17. Install the back cover. See page 18.

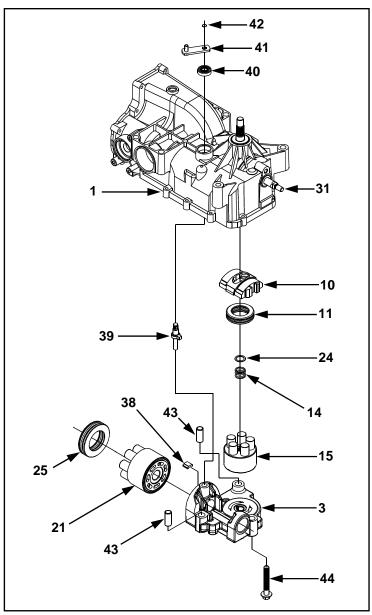


Figure 16. Center Section, Cylinder Blocks and Bypass

**INPUT SHAFT & TRUNNION ARM** 

Refer to Figure 17.

#### DISASSEMBLY

- 1. Remove the back cover. See page 18.
- 2. Remove the brakes. See pages 19 and 20.
- 3. Remove the brake shaft and bevel gear. See page 21.
- 4. Remove the axle shaft and spur gear. See pages 22 and 23.
- 5. Remove the lower housing and filter. See page 24 and 25.
- 6. Remove the motor shaft and bevel gear. See page 26.
- 7. Remove the center section and cylinder block assemblies. See pages 27 and 28.
- 8. Remove the input shaft retaining ring (7).
- 9. Remove and discard the lip seal (4).
- 10. Remove the spacer (5).
- 11. Remove the input shaft (12) and bearing (8).
- 12. Remove the slot guide (30).
- 13. Rotate the trunnion arm (31) to check for free movement.
- 14. Remove the trunnion shaft seal (33) if necessary and remove the trunnion arm (31).

#### INSPECTION

- 1. Inspect the input shaft (12) and bearing (8) for wear or damage.
- 2. Inspect the slot guide (30).
- 3. Inspect the trunnion arm (31) for wear or damage.
- Inspect the non-removable cradle bearings (9) in the main housing (1) for excessive wear.

- 1. Install the trunnion arm (31) if removed and install a new trunnion seal (33).
- 2. Install the slot guide (30).
- 3. Install the input shaft (12), bearing assembly (8) and wire retaining ring (6), if removed.
- 4. Install the spacer (5).
- 5. Install a new input shaft lip seal (4). Remember to protect the seal during installation by covering the shaft with cellophane.
- 6. Install the input shaft retaining ring (7).
- 7. Install the center section and cylinder block assemblies. See pages 27 and 28.
- 8. Install the motor shaft and bevel gear. See page 26.
- 9. Install the lower housing and filter. See page 24 and 25.
- 10. Install the axle shaft and spur gear. See pages 22 and 23.
- 11. Install the brake shaft and bevel gear. See page 21.
- 12. Install the brakes. See pages 19 and 20.
- 13. Install the back cover. See page 17.

### **INPUT SHAFT & TRUNNION ARM**

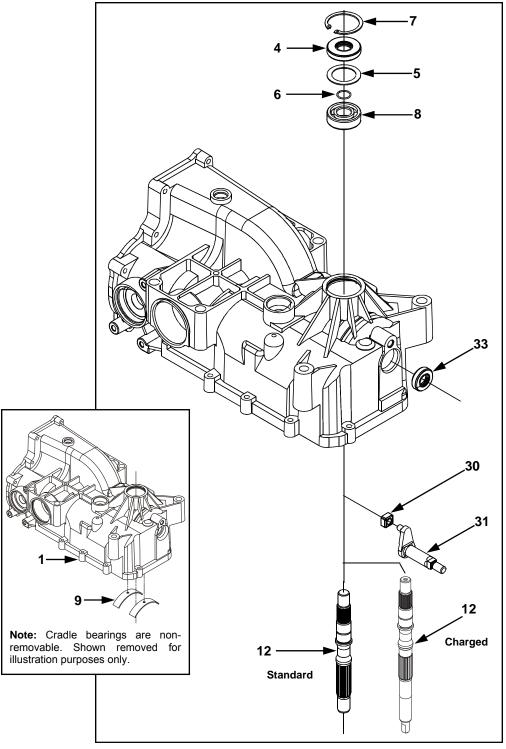


Figure 17. Input Shaft and Trunnion Arm Assembly

### TRANSAXLE INSTALLATION

Use the following procedure to complete the installation of the transaxle on the vehicle.

- 1. Install and secure the transaxle on the vehicle according to the instructions in the vehicle owner's manual.
- Install the hub assembly (107, page 23) if not already done. Install the <sup>3</sup>/<sub>4</sub>-16 hex nut (108, page 23).
- 3. With the vehicle raised, install the wheel on the hub, and snug the wheel lug nuts.
- Lower the vehicle wheels to the ground and torque the <sup>3</sup>/<sub>4</sub>-16 hex nut to 200-295 ft.-lbs. (271-400 Nm).
- 5. Tighten the wheel lug nuts per the vehicle owner's manual.

# ASSEMBLY AFTER A COMPLETE TEARDOWN

If the unit has been torn down completely, the following summary identifies the assembly procedures necessary to completely assemble the unit. Each assembly procedure is located by a page reference.

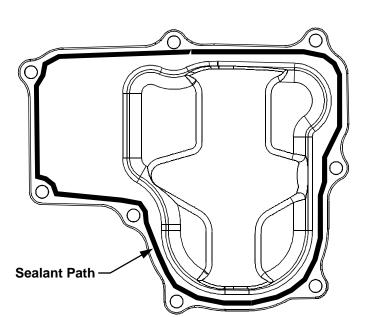
The part reference numbers provided in each assembly procedure are keyed to the individual exploded views, and are also keyed to the complete unit exploded view on page 30.

- 1. Install the input shaft and trunnion arm. See page 29.
- 2. Install the center section, motor and pump cylinder blocks. See page 27.
- 3. Install the motor shaft and bevel gear. See page 26.
- 4. Install the filter and lower housing. See pages 24 and 25.
- 5. Install the axle shaft and spur gear. See pages 22 and 23.
- 6. Install the brake shaft and bevel gear. See page 21.
- 7. Install the brake. See pages 19 and 20.
- 8. Install the back cover. See page 17.
- Fill the transaxle with 79 fluid ounces (2336 ml.) of new 20w50 motor oil. This should put the oil level approximately 1<sup>7</sup>/<sub>8</sub>" (48 mm) from the top of the housing. This should be checked at the fill port.
- 10. Install the transaxle onto the vehicle.
- 11. Perform the purge procedures listed on page 13.
- 12. Perform the return to neutral procedure on page 14.

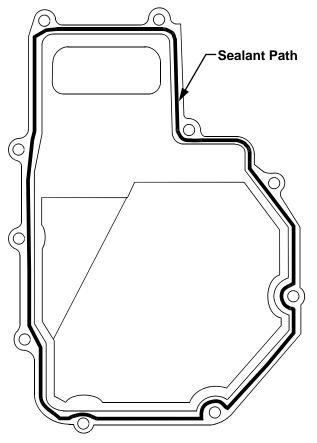
**NOTE:** Prior to applying the new sealant, the old sealant must be removed from all surfaces.

A small bead of the sealant around the outer part of the housing face will be sufficient. <u>Use sparingly.</u>

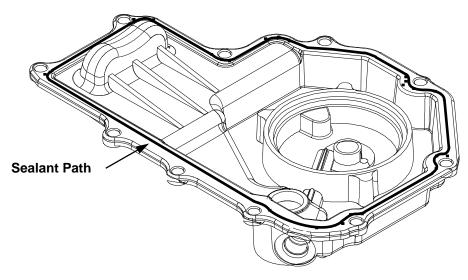
The illustrations below indicate the correct areas.



Back Cover Sealant Path



**310-2400 Lower Housing Sealant Path** 



310-2600 Lower Housing Sealant Path



# **Service Bulletin**

SB-51888 Rev. P

### PRODUCTS AFFECTED:

All Hydro-Gear<sup>®</sup> IZT<sup>®</sup> models (310-2400 Series)

SUBJECT:

Water Exclusion Kit

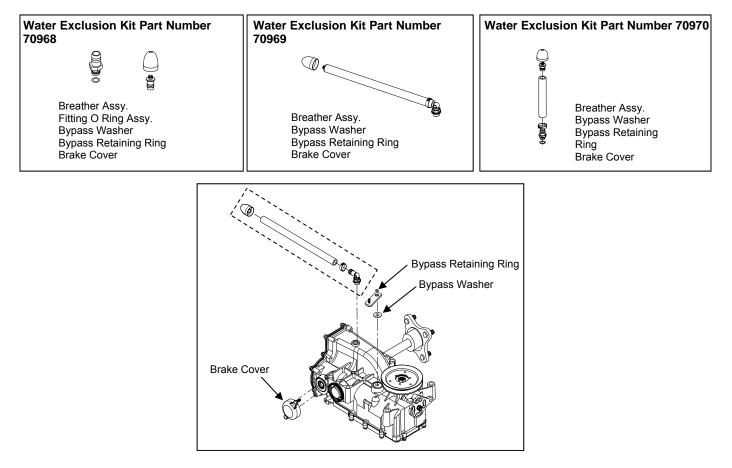
**DESCRIPTION:** It has been determined that on some IZT applications, water intrusion, resulting from unprotected exposure to the environment or high pressure washing is possible. This bulletin details the parts to be used in preventing the potential for water intrusion.

#### This is a preventative product improvement: Not intended for Hydro-Gear warranty reimbursement.

Water Exclusion Kit Part Number 70968 is used on models: 015606, 015618, 321-2400R, 322-2400R, 322-2400L, 335-2400L, 335-2400R, D-3725-02, D-3725-01, 01008192, 01008193, 130333, 130332, 015679, 015680.

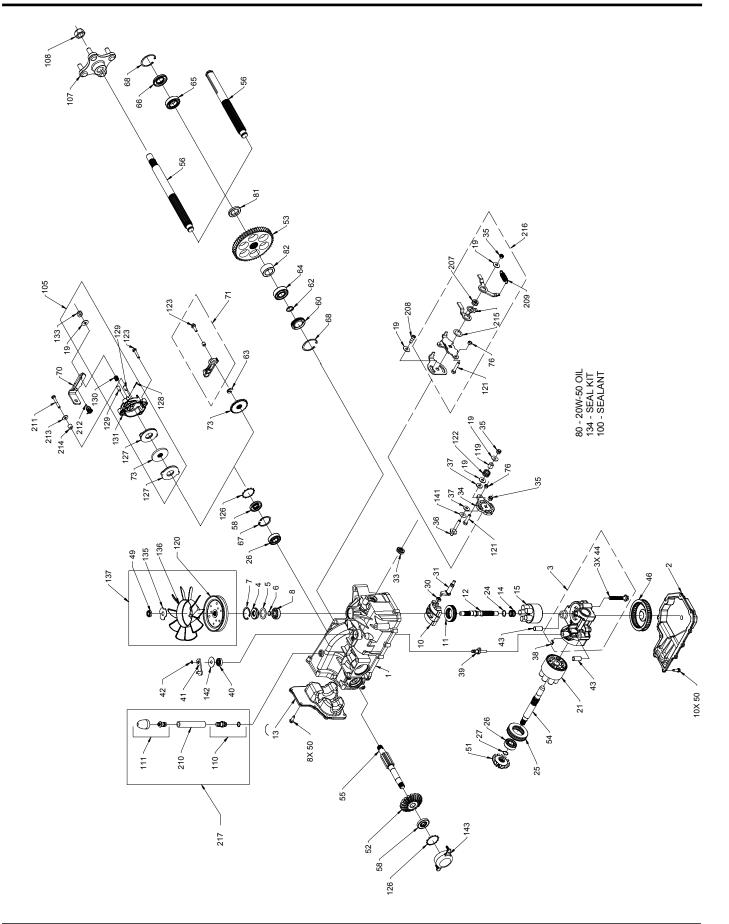
Water Exclusion Kit Part Number 70969 is used on models: 100-7360,100-7361, 107605, 107606, 3600, 3600CB.

Water Exclusion Kit Part Number 70970 is used on models: 618-0437, 618-0438, 326-2400R, 326-2400L, 3601, 782862, 782854, 333-2400L, 333-2400R, 3601CB.



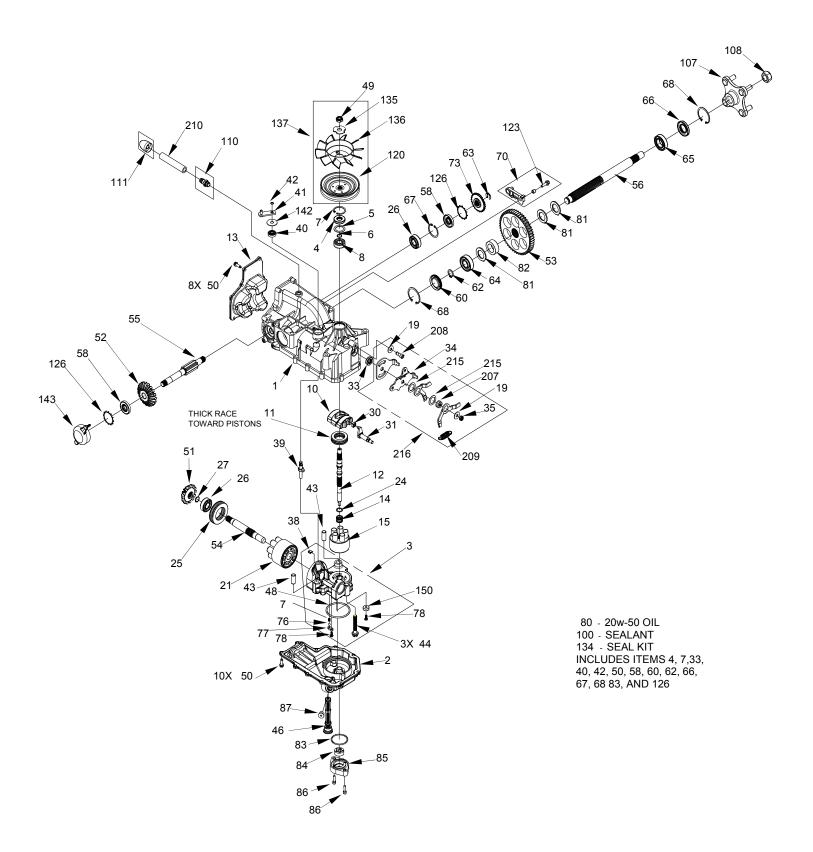
For more technical assistance contact your Hydro-Gear Central Service Distributor. Part No. BLN-51888 DATE: APRIL 2003

# 310-2400 EXPLODED VIEW



### 310-2400 ITEMS LIST

1         Nit, Hossing-Main Dust, Marin Currents Robring         90         Pastic Flip Seature (Pastic Flip Seatur (Pastic Flip Seatur (Pastic Flip Seature (Pastic Flip	No.	DESCRIPTION	No.	DESCRIPTION
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Circle Nug Assembly         Compression Spring Ant Drag           Circle Nug Assembly         KI Yoek Hank           4         Us Bail           5         Space           6         Wine Relating Rung           7         Nut Hex 34-18           8         Space           9         Cradle Baaring           9         Cradle Samping           9         Cradle Samping           10         Viraio Samping Ant Day           11         Crave Nut Assembly           12         Viraio Samping Ant Day           13         Corres Baaring           14         Spring, Bick         111           15         Torres Mark           16         Participant           13         Corres Baaring           14         Spring, Bick           15         Torres Mark           16         Participant           16         Corporation Spring           12         Participant           13         Corporation Spring           14         Spring Bick Ant Drag           15         Corporation Spring Pine           16         Corporation Spring Pine           16         Spretabor Spring	5			
Center Section         Kit, Yoke Brake           Busing         Kit, Yoke Brake           Standard         Ling Bort           Busing         High Section           Wire Retaining Ring         110           Patienting Ring         110           Busing         111           Thrust Bearing         111           Ball Stand         112           Ball Stand         113           Kit Archang Ring         114           Standard Contr				
Bushing         107         Hub Assembly Bushing           6         Up bushing         Lip bushing           6         Second         Lip bushing           7         Retaining Ring         108         File O-Aling Assembly Plastic Hose Filing           8         Ball Bearing         Oracle Bearing         Plastic Hose Filing           9         Crade Bearing         Plastic Hose Filing         Plastic Hose Filing           11         Final Stand         Plastic Hose Filing         Plastic Hose Filing           12         Ioput Shaft         Plastic Hose Filing         Plastic Hose Filing           13         Cover-Back         119         Soacer         Plastic Hose Filing           14         Stoce Jin Bine         Plastic Hose Filing         Plastic Hose Filing         Plastic Hose Filing           15         Over-Back         120         Plastic Hose Filing         Plastic Hose Filing         Plastic Hose Filing           16         Plastic Hose Filing         120         Plastic Hose Filing         Plastic Hose Filing         Plastic Hose Filing           17         Unco Filing Hose Anal Drag         120         Plastic Hose Filing         Plastic Hose Filing           18         Static Hose Filing         Static Hose Filing         Static Hose F				
4         Lip Seal         Hub         '           6         Spacer         Hub         Lip Seal           7         Wire Raup Phing         100         Nul, Hard Artig Assembly           8         Ball Bearing         100         Nul, Hard Artig Assembly           9         Cradle Bearing         O-King         O-King           11         Variable Swatshate         100         Parties Verial Networks           12         Topad Shaft         Spacer         Parties Verial Networks           13         Cover-fields         120         Parties Verial Networks           14         Spring, Biock         120         Parties Verial Networks           10         Variable Scale         120         Parties Verial Networks           10         Washer         120         Parties Networks         120           10         Washer         120         Parties Networks         120           11         Coc Order Scale         120         Parties Networks         140           12         21co Chinder Biock Anary         120         Parties Networks         142         143           13         Ref Scale         Spacer         120         Parties Paries Networks         142      <			107	
5         Space         Lug Bolt           6         Wire Relating Ring         Lug Bolt           7         Relating Ring         The Relating Ring         Filting D-Ring Assembly           7         Relating Ring         The Ring D-Ring Assembly         Filting D-Ring Assembly           7         Relating Ring X-RX 13         The Ring D-Ring Assembly         Filting D-Ring Assembly           10         Variable Swashplate         Plaster Vent         Plaster Vent           12         Input Swat         Plaster Vent         Plaster Vent           13         Thore Steam System         12         Bolt S16-18 X - 144           14         Thore Steam System         12         Bolt S16-18 X - 144           15         Toce Cylinder Block Assay         12         Bolt S16-18 X - 144           160         Plaster Nether         12         Bolt S16-18 X - 144           17         Bolt S16-18 X - 144         X - 13 X - 144           18         Kotter Back Assay         12         Bolt S16-18 X - 144           10         Variable Staam Assay         12         Bolt S16-18 X - 144           10         Variable Staam Assay         12         Bolt S16-18 X - 144           11         Kotter B132 X - 14         X - 13 X - 144			107	
6     Wire Retaining Fing     108     Nut, Hex 34-18       7     Retaining Fing     Fing     C-Ring       9     Cradie Beam     C-Ring       10     Variable Swashplate     C-Ring       11     Thust Isearing 30 X 52 X 13     C-Ring       11     Thust Isearing 30 X 52 X 13     C-Ring       11     Thust Isearing 30 X 52 X 13     C-Ring       12     Notice Control Flock Assy     10       13     Too: Cylinder Block Assy     12       14     Spring, Block     120       15     Too: Cylinder Block Assy     120       10     Washer     120       10     Collider Block Assy     120       11     Too: Cylinder Block Assy     120       12     Zico Cylinder Block Assy     120       13     Coller Pin 32 X 34       14     Washer     120       15     Coller Pin 32 X 34       16     Vasher       17     Washer Block Area       18     Washer       21     Coller Pin 32 X 34       21     Statta Ha An Ison 24       21     Washer Statt Ha Statta Ha An Ison 24 </td <td></td> <td></td> <td></td> <td></td>				
7     Betalming Ring     110     Filting C-Ring Assembly       8     Ball Bearing     Plask-Hose Filting       9     Cover Rank     111     Cap-Poppet Valve       12     Input Shaft     Cap-Poppet Valve       13     Cover Rack     119     Spacer       14     Cover Rack     119     Spacer       15     Cover Rack     121     Bolt Sirie I & 1-1/4       16     Cover Rack     123     Bolt Sirie I & 1-1/4       17     Totas Error     Cover Rack     123       18     Spacer     123     Disc Sirie Valve       10c: Cylinder Block Asay     123     Disc Sirie Valve     120       11     Totas Error     123     Disc Sirie Valve     120       21c: Cylinder Block Asay     127     Static Arabis Friction     123       21c: Cylinder Block Asay     123     Disc Sirie Valve     130       21c: Cylinder Block Asay     123     Disc Sirie Valve     131       21c: Cylinder Block Asay     131     Complexistor Sirie Plants     132       21c: Cylinder Block Asay     133     Stoted Hex Nut Sirie Fake Friction       21c: Cylinder Block Asay     133     Stoted Hex Nut Sirie Fake Filder       21c: Cylinder Block Asay     133     Stoted Hex Nut Sirie Fake Filder </td <td>5</td> <td></td> <td></td> <td></td>	5			
8     Ball Bearing     Plast Files Pitting       0     Cradie Bearing     Plast Files Pitting       11     Variable Soundpitting     11     Cap Vert Assumbly       12     Putting Soundpitting     11     Cap Vert Assumbly       13     Cover-Back     119     Spacer       14     Spring, Block     120     Putler, 4.5       15     Disc Cylinder Biox Asay     120     Putler, 4.5       16     Disc Pitter Vertein Spring     121     Bolt Sitch Spring       10co Pitter Spring     128     Bolt Sitch Spring     128       10co Pitter Spring     128     Bolt Sitch Spring     128       10co Pitter Spring     128     Bolt Sitch Spring     128       10co Pitter Book Asay     127     Statc (Parke Findton       21co Cylinder Biotoc Asay     127     Statch Statting Pitter       21co Cylinder Biotoc Asay     128     Statting Pitter       21co Cylinder Biotoc Asay     129     Statting Pitter       21co Cylinder Biotoc Asay     131     Kt Vedoc-Brack       21co Cylinder Biotoc Asay     133     Stott Since Findton       21co Cylinder Biotoc Asay     131     Kt Vedoc-Brack       21co Cylinder Biotoc Asay     133     Stott Since Findton       21co Cylinder Biotoc Asay     134     <	6			,
9     Crade Beaing     O-Ring       11     Variable Swatplate     111       12     Thrust Beaing 30 X 52 X 13     Cover Park       13     Thrust Beaing 30 X 52 X 13     Cover Park       14     Spring, Block     120       15     Toc Cylinder Block Asay     121       16     Cover Park     122       17     Toc Cylinder Block Asay     122       18     Toc Cylinder Block Asay     122       19     Wesher     120       21     Zito Cylinder Block Asay     127       21     Zito Cylinder Block Asay     128       210     Pistor Spring     128       211     Zito Cylinder Block Asay     128       212     Zito Cylinder Block Asay     128       213     Zito Cylinder Block Asay     128       214     Washer, Block Trust     131       215     Pistor     131       216     Pistor     133       217     Pistor     133       218     Bail Beainfig Atay & 68 X 16     133       219     Bail Geainfig Atay     134       210     Pistor     Sand Lip 153 X 57 X       211     Turunion Arm     Sand Lip 153 X 57 X       211     Turunion Arm     Sand Lip 153 X 57 X			110	
10     Variable Swashipite     111     Cap Vert Assembly       12     Trunt Bening 30: X 52 x 13 to the series of X 52 x 13 to the seri		Ball Bearing		Plastic Hose Fitting
11     Thrust Bearing 30: 52 X 13     Capi-Dopel Value <sup>2</sup> 13     Lower-Back     19     Statum       14     Cover-Back     19     Statum       15     Cover-Back     19     Statum       16     Moto Cylinder Block Asay     121     Boot Strin 18 X 1.1/4       160     Cover-Back     122     Helcal Comp. Spring       17     Dos Grinder Block Asay     121     Boot Strin 18 X 1.1/4       18     Cover-Back Asay     121     Boot Strin 18 X 1.1/4       19     Watcomer Block Asay     122     Helcal Comp. Spring       10     Watcomer Block Asay     128     Cover-Block Asay       21     Statum Channeg Flow     120     Cover-Block Asay       21     Statum     Throw Shatim     120     Cover-Block Asatim       21     Statum     Statum     131     Kt, 17 Vade Baiting       21     Statum     Statum     133     Statum String       21     Statum     Statum     Statum     Yoke, Black       21     Wire Retaining Ring     133     Statum String     Statum       22     Wire Retaining Ring     133     Statum String     Statum       33     Statum     Statum     Statum     Statum       34	9	Cradle Bearing		O-Ring
12         Input Shaft         Plastic Venit           14         Gover-Back         10         Spacer           14         Spring, Block         10         Puller, 10.4 X.1.14           1000-Cylinder Block Asay         12         Puller, 10.4 X.1.14           1000-Cylinder Block Asay         12         Puller, 10.4 X.1.14           1000-Cylinder Block Asay         12         Puller, 10.4 X.1.38           12         Zitco Cylinder Block Asay         12         Puller, 10.4 X.1.38           13         Washer         120         Brake Actuating Pin           24         Zitco Cylinder Block Asay         120         Brake Actuating Pin           21         Zitco Cylinder Block Asay         120         Brake Actuating Pin           21         Zitco Cylinder Block Asay         130         Compression Spring Brake Anti Drag           21         Zitco Flaton         Sitd Guide         Sitd Guide         Sitd Guide           21         Washer         130         Sitd Guide         Sitd Guide         Sitd Guide           33         Sitd Guide         Sitd Guide         Sitd Guide         Sitd Guide         Sitd Guide           34         Lin Sitds         Sitd Guide         Sitd Guide         Sitd Guide         Sitd G	10	Variable Swashplate	111	Cap Vent Assembly
12         Input Shaft         Plastic Venit           14         Gover-Back         10         Spacer           14         Spring, Block         10         Puller, 10.4 X.1.14           1000-Cylinder Block Asay         12         Puller, 10.4 X.1.14           1000-Cylinder Block Asay         12         Puller, 10.4 X.1.14           1000-Cylinder Block Asay         12         Puller, 10.4 X.1.38           12         Zitco Cylinder Block Asay         12         Puller, 10.4 X.1.38           13         Washer         120         Brake Actuating Pin           24         Zitco Cylinder Block Asay         120         Brake Actuating Pin           21         Zitco Cylinder Block Asay         120         Brake Actuating Pin           21         Zitco Cylinder Block Asay         130         Compression Spring Brake Anti Drag           21         Zitco Flaton         Sitd Guide         Sitd Guide         Sitd Guide           21         Washer         130         Sitd Guide         Sitd Guide         Sitd Guide           33         Sitd Guide         Sitd Guide         Sitd Guide         Sitd Guide         Sitd Guide           34         Lin Sitds         Sitd Guide         Sitd Guide         Sitd Guide         Sitd G	11	Thrust Bearing 30 X 52 X 13		Cap-Poppet Valve
13     Cover-Back     119     Spacer       14     Spring, Block Assy     120     Pulley, 45       15     Tobe Cylinder Block Assy     121     Bolt Sirk-18, X 1/4       10     Cylinder Block Assy     121     Bolt Sirk-18, X 1/4       100     Patient Comp, Spring     14-20, X 7/8       100     Washer     122     Staton, Brake Arm Hex Washer Head Sorew, 14-20, X 7/8       100     Patient Comp, Spring     123     Brake Arm Hex Washer Head Sorew, 14-20, X 7/8       11     Washer     126     Cotter Fin 3/23, X 34       12     21co Cylinder Block Assy     128     Brake Artuating Phin       12     Thrust Bearing 42, X 68     Net X Vace Parker       13     Kut Yake Parker     Statof Armake Anti Drag       14     Washer, Block Thrust     Statof Armake Anti Drag       15     Thrust Bearing 42, X 68     Net X 342       16     Ball Bearing     138     Stoted Hex Nut 5/16-24       17     Washer, Block Thrust     Statof Armake     Statof Armake       18     Lip Seal     Statof Armake     Statof Armake       19     Vack Brake     Statof Armake     Statof Armake       10     Finder     Statof Armake     Statof Armake       110     Statof Armake     Statof Armake     <	12			Plastic Vent
14     Spring, Block     120     Pulley, 4.5       15     10cc Cylinder Block Assyy     121     Bolt S/16 18 1/14       10c Cylinder Block Assyy     122     Helical Comp, Spring       19     Nork Stark, 114 (Stress Stark, 1144 (Stress Stark, 114 (Stress Stark, 114 (S			119	
15     ibac Čylinder Block Assy     121     Bott 5/16-18 X 1-1/4       10cc Piston Spring     123     Disc Brake Yorks Screw, 14-20 X 13 BWP atch       10cr Piston Spring     123     Disc Brake Yorks Screw, 14-20 X 7/8       19     Wester     129     Disc Marke Yorks Screw, 14-20 X 7/8       19     Vester     120     Corp Brake And Marke X Stahur Head Screw, 14-20 X 7/8       19     Vester     120     Corp Fiston Spring Brake Anti Drag       21cc Piston Spring     129     Brake Actuating Pin       21cc Piston Spring     131     Kit, Yoke-Brake       21cd Fiston Spring Brake Anti Drag     Xit A 500 Fisto Spring Brake Anti Drag       21cd Fiston Spring Brake Anti Drag     Xit A 500 Fisto Spring Brake Anti Drag       21cd Fiston Spring Brake Anti Drag     Xit A 500 Fisto Spring Brake Anti Drag       21cd Fiston Spring Brake Anti Drag     Xit A 500 Fisto Spring Brake Anti Drag       21cd Fiston Spring Brake Anti Drag     Xit A 500 Fisto Spring Brake Anti Drag       21cd Fiston Spring Brake Anti Drag     Xit A 500 Fisto Spring Brake Anti Drag       21cd Fiston Spring Brake Anti Drag     Xit A 500 Fisto Spring Brake Anti Drag       21cd Fiston Spring Brake Anti Drag     Xit A 500 Fisto Spring Brake Anti Drag       21cd Fiston Anting     Sanut Drag Spring Brake Anti Drag       21cd Fiston Anting     Sanut Drag Spring Brake AntiDrag       21cd Fisto				
10cc Cylinder Block         122         Helica Raker Dor. Spring           10cc Flaton         Cog Brake Arm Hax Washer Head Screw, 14-20 X 7/8           19         Washer         Ring Relation           21         Cog Brake Arm Hax Washer Head Screw, 14-20 X 7/8           21         Cog Brake Arm Hax Washer Head Screw, 14-20 X 7/8           21         Cog Brake Arm Hax Washer Head Screw, 14-20 X 7/8           21         Cog Brake Arm Hax Washer Head Screw, 14-20 X 7/8           21         Cog Brake Arm Hax Washer Head Screw, 14-20 X 7/8           21         Cog Brake Arm Hax Washer Head Screw, 14-20 X 7/8           21         Cog Brake Arm Hax Washer Head Screw, 14-20 X 7/8           21         Washer, Block Thrust         130           21         Washer, Block Thrust         131           23         Wire Retaining Ring         134           24         Wire Retaining Ring         33           25         RTN How Lock Nuk 5/16-24         Ring, Retaining           26         RTH Control Arm Nuk         Seal, Lip 17 X 40 X 7           27         Wire Retaining Ring         28         Seal, Lip 17 X 40 X 7           28         Ryster Shote Shote         Ring, Retaining           21         Lip Seal         Standard Control Arm Nut         Seal, Lip 18			-	
10c. Fiston Spring         123         Disc Brake Yoke Sorew, 14-28 X 1.38 W/Patch           10         Washer         128         Ring Retaining           11         21cc Cylinder Block Assy         127         Stator, Dake Fridion           12         21cc Cylinder Block Assy         127         Stator, Dake Fridion           12         21cc Cylinder Block Assy         127         Stator, Dake Fridion           12         Colume Pin 322 X 20         Stator, Dake Fridion           12         Colume Pin 322 X 20         Stator, Dake Ant Drag           12         Colume Pin 322 X 20         Stator, Dake Ant Drag           21         Thrust Bearing 42 X 68 X 16         131         Kit, Yoke-Brake           22         Wite Retaining Ring         133         Stotfet Hex Nut 576-24           23         Wite Retaining Ring         238         Stotfet Hex Nut 576-24           24         Wite Retaining Ring         238         Stotfet Ark Nut 576-24           25         Stator, Stotfet Ark Nut 576-24         Stotfet Ark Nut 576-24           26         Ring Retaining         Stotfet Ark Nut 576-24           27         Wite Lock Nut 716-24 (Nut Nut         Stotfet Ark Nut 576-24           28         Stotfet Ark Nut 572 (Nut Nut         Stotfet Ark Nut 576	10	5		
10c. PistonCog Brake Arm Hext Washer Head Sorew, 14-20 X 7/821Washer127Stator, Brake Friction21 c2. Cylinder Block Assy127Stator, Brake Friction21 c2. Cylinder Block Assy128Brake Actualing Pin21 c2. Cylinder Block Assy129Brake Actualing Pin21 c2. Cylinder Block Assy129Brake Actualing Pin21 c2. Piston Spring129Brake Actualing Pin24 Washer, Block Thrust131Stator, Brake Brake25 Thrust Bearing 42 X 68 X 16Yoke, Brake26 Ball Bearing133Stotted Hex Nut 5/16-2427 Wire Retaining Ring134Kit, Seal30 Stot Guide138Stotted Hex Nut 5/16-2431 Turnon ArmHang, Kataning32 Stottad Control ArmRing, Retaining33 Stottad Control ArmRing, Retaining34 Brake Control ArmSeal, Lip 15 X35 X 735 Stottad Control Arm MutSeal, Lip 15 X 3236 Stud-Long 5/16-24Ring, Retaining37 Friction FuckRing, Retaining38 Brypass PlateSeal, Lip 19 X 18 X 7639 Brypass PlateSeal, Lip 19 X 18 X 7630 Lip 19 X 18 X 76Seal, Lip 19 X 18 X 7631 Stator, Stato				
19     Washer     126     Ring Retaining       21     21cc Cylinder Block Asayy     127     Stator, Brake Friction       21cc Cylinder Block Asayy     128     Cotter Pin 332 X34       21cc Cylinder Block Asayy     129     Brake Actualing Pin       71     Thrust Bearing A2 X 68 X 16     130     Compression Spring Pathe       26     Ball Bearing     133     Solited Hex Null 5/16-24       27     Wire Retaining Ring     133     Solited Hex Null 5/16-24       28     Wire Retaining Ring     134     Kit, Yeale       31     Turuntion Arm     Seal, Lip 15 X35 X 7     X 7       32     Statisf Hex Null 5/16-24     Ring, Retaining       34     RTN Cortici Arm Arm     Seal, Lip 15 X35 X 7       35     Statisf Arg Add Null (Nyion Insert)     Ring, Retaining       36     Statisf Arg Add Null (Nyion Insert)     Seal, Lip 10 X 25 X 7       36     Statisf Arg Add Null (Nyion Insert)     Seal, Lip 18 X 32       37     Friction Puck     Ring, Retaining 40 X 7       38     Sysas Actuator     Seal, Lip 18 X 32 X 7       39     Sysas Actuator     Seal, Lip 18 X 32 X 7       39     Sysas Actuator     Seal, Lip 18 X 32 X 7       310     Lip Seal     Seal, Lip 18 X 32 X 7       311     Sysas Actuator <td></td> <td></td> <td>125</td> <td></td>			125	
21     21cc Cylinder Block Asay     127     Stalor, Brake Artiolon       21cc Nider Block Asay     128     Cotter Pin 322 X 344       21cc Nider Block Asay     129     Brake Actualing Pin       21cc Nider Block Asay     131     Compression Spring Brake Arti Drag       21cc Nider Block Asay     131     Compression Spring Brake Arti Drag       24     Trust Braining 478     133     Silcted Hex Nut 516-24       25     Trust Braining 478     133     Silcted Hex Nut 516-24       26     Ball Bearing     134     Kit, Seal       30     Silct Guide     134     Kit, Seal       31     Tunnion Arm     Seal, Lip 15 X35 X 7       33     Silcted Hex Nut 516-24     Ring, Relating       34     Lip Seal     North Standard Control Arm       35     Standard Control Arm Mut     Seal, Lip 12 X 25 X 7       36     Standard Control Arm Mut     Seal, Lip 17 X 40 X 7       37     Filcton Puck     Ring, Relating       38     Bypass Atheator     Seal, Lip 17 X 40 X 7       39     Standard Control Arm Mut     Seal, Lip 17 X 40 X 7       30     Bypass Atheator     Seal, Lip 17 X 40 X 7       31     Tunnio Pinta     Seal, Lip 17 X 40 X 7       31     Standard Control Arm Mut     Seal, Lip 17 X 40 X 7 <tr< td=""><td>10</td><td></td><td>126</td><td></td></tr<>	10		126	
21cc Cylinder Block128Cotter Pin 3/32 3/421cc Cylinder Block130Compression Spring Brake Anti Drag21cc Floton Spring130Compression Spring Brake Anti Drag21cc Floton131Kit, Yoke-Brake24Washer, Block ThrutsSq Hit Bolt 5/16-2425That Bornig13326Wire Retaining Brag13427Wire Retaining Brag13428Kit, ScalSolt Lip 15 X35 X731Trunnion ArmSeal, Lip 12 X 25 X734RTN Control ArmSeal, Lip 12 X 25 X735RTN Vex Lock Nut, 5/16-24 UNJF (Nylon Insert)Seal, Lip 10 X 25 X736RTN Vex Lock Nut, 5/16-24 UNJF (Nylon Insert)Seal, Lip 10 X 25 X737Friction PuckRing, Retaining38Rynas PatelaSeal, Lip 10 X 25 X739Bypass ActuatorSeal, Lip 10 X 25 X739Bypass ArmSeal, Lip 10 X 21 A0 X 5310Lip SealSeal, Lip 10 X 21 A0 X 5311Bypass ArmSeal, Lip 17 X 40 X 5312Frinding Ring135313Washer, .51 X 11/220 (Nylon Insert)314Bypass ArmSeal, Lip 17 X 40 X 5315Super SealLip Seal316Frinding RingSeal, Lip 17 X 40 X 5317Hat Mark MarkSeal, Lip 17 X 40 X 5318Frinding RingSeal, Lip 17 X 40 X 5319Bypass Arm13532Frinding RingSeal, Lip 17 X 40 X 533Frinding Ring, Arda				
21cc Piston Spring         129         Brake Actuating Pin           Piston Sett Washer         130         Compression Spring Brake Anti Drag           21cc Piston         131         Kit, Yoke-Brake           21cd Piston         131         Kit, Yoke-Brake           21cd Piston         131         Sincted Heat Nut St/16-24           22         Bait Bearing         133         Sincted Heat Nut St/16-24           23         Stor Guide         133         Sincted Heat Nut St/16-24           24         Rating Real International Arm         Stor Guide         Stor Guide           33         Lip Stor Guide         Stor Guide         Stor Guide           34         RIN Control Arm         Stor Guide         Stor Guide           35         RTI Net Stor Kut, 5/16-24         Stor Guide Med Net         Stor Guide Med Net           36         Stor Guide Min Nut         Stor Guide Med Net         Stor Guide Med Net           37         Friction Puck         Ring, Relaining Add Deternal         Stor Guide Deternal           38         Stor Guide Med Net         Stor Med Deternal         Stor Med Deternal           39         Friction Puck         Stor Med Deternal         Stor Med Deternal           30         Lip Stor Gear         Stor Med Detern	21			
Piston Sast Washer130Compression Spring Bake Anti Drag24Washer, Block ThrustSq Hd Bolt S/1-Sake25Thrust Bearing 42X 68 X 16Sq Hd Bolt S/1-S4 Albibed26Ball Bearing13327Wite Relaining Ring13330Stott GuideStott He Xu 15/1-S-431Thrust MarkBall Bearing32Stott GuideStott Guide33Stott GuideStott Guide34Kit, StealStott He Xu 15/1-S-434RTN Control ArmBeal, Lip 15 X 53 X 735RTN Hex Lock Nut, 5/1-S-4 ULUF (Nyton Insert)Seal, Lip 16 X 53 Z 7636Stud-Control Arm NutSeal, Lip 17 X 40 X 738Stud-Control Arm NutSeal, Lip 17 X 40 X 739Bypass PlateSeal, Lip 17 X 40 X 730Bypass ActuatorSeal, Lip 17 X 40 X 731Bypass ActuatorSeal, Lip 98 X 1280 X.092 (Believille)34Bypass ActuatorSeal, Lip 98 X 1280 X.092 (Believille)34Bypass ActuatorSeal, Lip 38 X 1280 X.092 (Believille)35Stott Actuation StattSeal, Lip 38 X 1280 X.092 (Believille)36Bypass ActuatorSeal, Lip 38 X 1280 X.092 (Believille)37Fricton PuckSeal, Lip 38 X 1280 X.092 (Believille)38Bypass ActuatorSeal, Lip 38 X 1280 X.092 (Believille)39Bypass ActuatorSeal, Lip 38 X 1280 X.092 (Believille)40Lip SealSeal, Lip 38 X 1280 X.092 (Believille)41Bysase ActuatorSeal, Lip 3				
21cc Pieton131Kit, Yoke-Brake24Washer, Block TrustSq. Hd bolt S/16-24 Ribbed25Trust Bearing 42 X 63 X 16Yoke, Brake26Ball Bearing133Slotted Hex Nut 5/16-2427Wire Retaining Ring134Kil, Seal28Slot Guide134Kil, Seal29Slot Guide134Kil, Seal31Trunnion ArmSeal, Lip 15 X35 X 732Ball BearingSeal, Lip 15 X35 X 734RTN Control ArmSeal, Lip 10 X 225 X 735RTN Test Lock Nut, 5/16-24 UNUF (Nylon Insert)Seal, Lip 10 X 225 X 736Stott Arm NutSeal, Lip 10 X 225 X 737Stott Arm NutSeal, Lip 10 X 225 X 738Bypass ActualorSeal, Lip 10 X 225 X 739Bypass ActualorSeal, Lip 10 X 225 X 739Bypass ActualorSeal, Lip 98 X 1455 X 27631Bypass Arm135Washer, 531 X 120 X .092 (Belleville)41Bypass Arm135Washer, 531 X 120 X .092 (Belleville)42Retaining Ring136Fan, 67, 10 Blade43Pin137Kit, Fan-Pulley44ScrewHex Lock Nut 172-20 (Nylon Insert)45Strew141Washer, 631 X 120 X .092 (Belleville)46Filler-IFan, 67, 10 Blade47Hex Lock Nut 172-20 (Nylon Insert)48Shaft20849Hex Lock Nut 172-20 (Nylon Insert)40Hex Lock Nut 172-20 (Nylon Insert)5			-	
24         Washer, Block Thrust         Si, Hd Bot Sirle 24 Ribbed           25         Trust Bearing 24: 28 8 X 16         Yoke, Brake           26         Ball Bearing         133         Slotted Hex Nut 5/16-24           27         Wire Relating Ring         133         Slotted Hex Nut 5/16-24           30         Slot Guide         Seal, Lip 133 X 7         Seal, Lip 133 X 7           31         Lip Seal         Seal, Lip 13 X 28 X 7         Seal, Lip 13 X 28 X 7           33         Lip Seal         Seal, Lip 13 X 28 X 7         Seal, Lip 13 X 28 X 7           34         RTN Hex Lock Nut, 5/16-24         Seal, Lip 14 X 40 X 7           35         Stud-Long 5/16-24         Ring, Retaining           36         Stud-Long 5/16-24         Ring, Retaining 140 External           37         Friction Puck         Seal, Lip 17 X 40 X 7           38         Bypass Plate         Sear, Lip 138 X 158 X 276           39         Bypass Actuator         Sear, Lip 138 X 158 X 276           40         Lip Seal         Sear, K 168 X 250 X 092 (Bellewille)           41         Bypass Actuator         Sear, K 168 X 250 X 092 (Bellewille)           42         Retaining Ring         138         K Ki, Fan-Puiley           43         Brace Nam				
25         Thrust Bearing 42 X 68 X 16         vide, Brake           26         Ball Bearing         133         Silot de Has Nut 5/16-24           27         Wire Retaining Ring         134         Kit, Seal           31         Trunnion Arm         Seal, Lip 15 X35 X 7           31         Trunnion Arm         Seal, Lip 15 X35 X 7           32         Ring, Retaining         Seal, Lip 12 X 25 X 7           33         Silot Add Control Arm         Seal, Lip 12 X 25 X 7           34         RTN Hex Lock Nut, 5/16-24 UNJF (Nyton Insert)         Seal, Lip 17 X 40 X 7           35         Raff ad Control Arm Nut         Seal, Lip 17 X 40 X 7           36         Priction Puck Seal         Seal, Lip 17 X 40 X 7           37         Friction Puck Seal         Seal, Lip 17 X 40 X 7           38         Bypass Actuator         Seal, Lip 17 X 40 X 7           39         Bypass Arm         135         Washer, 531 X 1250 X 092 (Belleville)           41         Bypass Arm         136         Far, 6', 10 Blade           42         Prin         137         Kit, Fan-Pulky           43         Pin         136         Far, 6', 10 Blade           43         Pin         137         Kit, Seal           44			131	
26         Ball Bearing _         133         Slotted Heaving K16-24           30         Slot Guide         Seal, Lip 15 X35 X 7           31         Tunnion Arm         Seal, Lip 15 X35 X 7           33         Lip Seal         Seal, Lip 15 X25 X 7           34         RTN Control Arm         Seal, Lip 15 X25 X 7           35         RTN Hex Lock Nut, 5t16-24 UNJF (Nylon Insert)         Seal, Lip 15 X25 X 7           36         Standard Control Arm Nut         Seal, Lip 15 X45 X32           37         Friction Puck         Ring, Retaining           38         Spass Actuator         Seal, Lip 16 X40 X5           39         Bypass Actuator         Seal, Lip 16 X40 X5           41         Bypass Actuator         Seal, Lip 16 X40 X5           42         Bypass Arm         135         Weaver, 14-20 X, 73 Long           43         Bypass Arm         136         Washer, 531 X1 250 X.002 (Bellewille)           44         Screw         Hits         Hex Lock Nut 12-20 (Nylon Insert)         Hex Lock Nut 12-20 (Nylon Insert)           44         Screw         Hex Lock Nut 12-20 (Nylon Insert)         Hex Lock Nut 12-20 (Nylon Insert)           45         Brake Cover         Hex Lock Nut 12-20 (Nylon Insert)         Puley A40 F.34 X.75 (Patch)				
27         Wire Retaining Ring         134         Kit, Seal           31         Trunnion Arm         Ring, Retaining           31         Lip Seal         Seal, Lip 15 X35 X 7           34         RTN Control Arm         Seal, Lip 12 X 25 X 7           34         RTN Control Arm         Seal, Lip 12 X 25 X 7           35         RTN Hex Lock Nut, 5/16-24         Seal, Lip 13 X 30 X 7           36         Stud-Long 5/16-24         Ring, Retaining           37         Friction Puck         Ring, Retaining 440 External           38         Bypass Plate         Seal, Lip 17 X 40 X 7           39         Bypass Actuator         Seal, Lip 17 X 40 X 5           40         Lip Seal         Ring, Retaining 440 External           41         Bypass Arm         Sorew, 1-40 X 75           42         Retaining Ring         135         Wasther, 531 X 1.250 X 0.02 (Belleville)           43         Screw         Harp 20 X 75 Long         Harp 20 X 75 Long           44         Screw         Harp 4.8 X 8.8 X 0.3         Harp 4.8 X 8.8 X 0.3           51         14T Bevel Gear         142         Wasther, 531 X 1.250 X .02 (Belleville)           53         Stud - X 75 Long         Harp 4.8 X 8.8 X .03           54         <		Thrust Bearing 42 X 68 X 16		Yoke, Brake
30Slot GuideSeal. Lip 1325 X731Turnion ArmRing, Retaining33Lip SealSeal. Lip 10 X 25 X734RTN Control ArmSeal. Lip 10 X 25 X735Standard Control ArmRing, Retaining36RTN Hex Lock Nut, 5/16-24 UNJF (Nyion Insert)Seal. Lip 17 X 40 X737Friction PuckRing, Retaining 440 Extranal38Bypass PlateSeal. Lip 17 X 40 X739Bypass PlateSeal. Lip 17 X 40 X730Lip SealBypass Plate30Lip SealStandard Control Arm41Bypass ActuatorSeal. Lip 38 X 1250 X.020 (Beleville)42Retaining Ang13643Bypass Arm13644Bypass Arm13645Screw46Screw47Hex Lock Nut 12-20 (Nyion Insert)48Screw49Hex Lock Nut 12-20 (Nyion Insert)49Hex Lock Nut 12-20 (Nyion Insert)41Hex Lock Nut 12-20 (Nyion Insert)42Pulley 4.543Strew, 14-20 X.75 Long44Borde45Strem46Strem47Hex Lock Nut 12-20 (Nyion Insert)48Strem49Hex Lock Nut 12-20 (Nyion Insert)40Strem41Washer, Bypass53SJ SJ Cucgear54Motor Shaft55Brake Shaft56Strem X14 (D,D)56Strem X14 (D,D)57 <td< td=""><td>26</td><td>Ball Bearing</td><td>133</td><td>Slotted Hex Nut 5/16-24</td></td<>	26	Ball Bearing	133	Slotted Hex Nut 5/16-24
31Trunnion ArmRing, Retaining33Lip SealStandard Control ArmSeal, Lip 12X 25 X 734RTN Control ArmSeal, Lip 12X 25 X 735RTN Hex Lock Nut, 5/16-24 UNJE (Nyion Insert)Seal, Lip 1.85 X 3236Stud-Long 5/16-24Ring, Retaining37Friction PuckRing, Retaining, 440 External38Bypass PateSeal, Lip 17 X 40 X 739Bypass ActuatorSeal, Lip 17 X 40 X 7540Lip SealScal, Lip 17 X 40 X 7641Bypass ArtuatorSeal, Lip 17 X 40 X 7542Retaining RingScrew, 1/420 X 75 Long43PinScrew, 1/420 X 75 Long44ScrewWasher, 531 X 1.250 X 092 (Belleville)45FilterT1220 (Nyion Insert)46FilterHex Lock Nut 12-20 (Nyion Insert)47Hex Lock Nut 12-20 (Nyion Insert)Hex Lock Nut 12-20 (Nyion Insert)48ScrewHat Nasher, 531 X 1.250 X 092 (Belleville)49Hex Lock Nut 12-20 (Nyion Insert)Hex Lock Nut 12-20 (Nyion Insert)40Stal, Adv 25mm X 14 (D,D)200 Screw, 716-24 X 75 (Patch)5114 TBevel Gear141 Washer, 54 X 405 X 4053Stal, Adv 25mm X 14 (D,D)201 Screw, 716-24 X 75 (Patch)54Braing Bing - Adve211 Screw 14-20 X 73 Lip SW Patch55Stal, Adv 25mm X 14 (D,D)216 Screw, 716-24 X 75 (Patch)56Braing Ring - Adve213 Washer, 1512 N, 706357Braing Ring - Adve214 Screw, 714-20 X, 7063 <td< td=""><td>27</td><td>Wire Retaining Ring</td><td>134</td><td>Kit, Seal</td></td<>	27	Wire Retaining Ring	134	Kit, Seal
33Lip SealSeal. Lip 12 X 25 X 734RTN Control ArmSeal. Lip 10 X 25 X 735RTN Hex Lock Nut 5/16-24 UNJF (Nyion Insert)Seal. Lip 17 X 40 X 736Stud-Long 5/16-24Ring, Retaining37Friction PuckRing, Retaining 400 External38Bypass PlateSeal. Lip 17 X 40 X 539Bypass ArlateSeal. Lip 7 X 40 X 530Lip SealSeal. Lip .98 X 165 X .27631Bypass ArlateSeal. Lip .98 X 165 X .27639Bypass ArlateSeal. Lip .98 X 1.250 X .092 (Belleville)41Bypass Arm13541Bypass Arm13642Retaining Afing13643Pin13744ScrewWasher, 531 X 1.250 X .092 (Belleville)44ScrewWasher, 531 X 1.250 X .092 (Belleville)45Frande13746FilterPin47N 20 X .75 LongPulley, 4.55114T Bevel Gear14148Washer, 34 x .88 x .035219T Bevel Gear14154Motor Shaft20755Shaft, Avle 25mm X 14 (D.D)20856Shaft, Avle 25mm X 14 (D.D)20957Staft, Avle 25mm X 14 (D.D)20958Seal. Lip 17 X 40 X 721159Staft Avle 25mm X 14 (D.D)21050Seal. Lip 17 X 40 X 721051Brake Shaft21052Retaining Ring - Avle21154<	30	Slot Guide		Seal, Lip 15 X35 X 7
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35         RTN Hex Lock Nut, 5/16-24 UNJF (Nylon Insert)         Seal, Lip 18 X 32           36         Stud-Long 5/16-24         Ring, Retaining           37         Priction Puck         Ring, Retaining           38         Bypass Plate         Seal, Lip 18 X 32           39         Bypass Actuator         Seal, Lip 18 X 40 X 5           40         Lip Seal         Scar, 14/20 X 75 Long           41         Bypass Actuator         Seal, Lip 17 X 40 X 5           42         Retaining Ring         135         Washer, 531 X 1.250 X 092 (Belleville)           43         Pin         136         Fan, 6", 10 Blade           44         Screw         Washer, 531 X 1.250 X 092 (Belleville)           45         Hiter         Washer, 531 X 1.250 X 092 (Belleville)           46         Filter         Washer, 531 X 1.250 X 092 (Belleville)           47         Bevel Gear         141         Washer, 531 X 1.250 X 092 (Belleville)           48         Screw         Washer, 531 X 1.250 X 092 (Belleville)           49         Hex Lock Nut 17-20 (Nylon Insert)         Pulley 4.5           51         147 Bevel Gear         141         Washer, S31 X 1.250 X 092 (Belleville)           53         S37 Spur Gear         142         Washer, S31 X 1.250 X 092 (	-			
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36         Stud-Long S/16-24         Ring. Retaining           37         Friction Puck         Ring. Retaining         440           38         Bypass Plate         Seal. Lip 17X 40X 5         Seal. Lip 17X 40X 5           40         Lip Seal         Sear. 1/4-20 X.75 Long         Washer., 531 X 1.250 X.092 (Belleville)           41         Bypass Artuator         135         Washer., 531 X 1.250 X.092 (Belleville)           42         Retaining Ring         136         Fan. 6", 10 Blade           43         Pin         137         Kit.Fan-Pulley           44         Screw         Washer., 531 X 1.250 X.092 (Belleville)           45         Filter         Fan. 6", 10 Blade           46         Filter         Hex Lock Nut 1/2-20 (Nylon Insert)         Hex Lock Nut 1/2-20 (Nylon Insert)           51         147 Bevel Gear         141         Washer., 34 x.88 x.03           52         197 Bevel Gear         142         Washer., 501 X 1.250 X.092 (Belleville)           54         Motor Shaft         208         Screw. 514 X 1.250 X.092 (Belleville)           55         Stray Gear         141         Washer., 531 X 1.250 X.092 (Belleville)           54         Motor Shaft         208         Screw. 516.24 X.75 (Patch)           55				
37Friction PicckRetaining. 4d0 External39Bypass PlateSeal. Lip 47.40 X.75 Long39Bypass ActuatorSeal. Lip 47.20 X.75 Long41Bypass Arm135Screw, 1/4-20 X.75 Long42Retaining Ring136Fan. 6.7 10 Blade43Pin137Kit, Fan-Pulley44ScrewWasher531 X.1.250 X.092 (Belleville)45Fan. 6.7 10 BladePin46FilterFan. 6.7 10 Blade47Hex Lock Nut 1/2-20 (Nyton Insert)Fan. 6.7 10 Blade48Hex Lock Nut 1/2-20 (Nyton Insert)Pulley, 4.550Screw, 1/4-20 X.75 LongPulley, 4.551141 Eevel Gear141Washer, 54 x.88 x.0353537 Spur Gear142Washer, Starke Cover54Motor Shaft208Screw, 1/4-20 X.75 (Patch)55Brake Shaft209Spring, Extension56Shaft, Axle Zomm X 14 (D,D)209Spring, Brake Arm Blas57Screm, Filder211Screw, Here Head 114-28 X.1.75 WPatch58Seal Lip 17 X 40 X 7211Screw, Mi-42 X.73 X.06359Seal Plug - Skite212Spring, Brake Arm Blas60Seal Plug - Skite214Washer, Head 14-28 X.1.75 WPatch61Seal Plug - Skite214Washer, Head 14-28 X.1.75 WPatch62Retaining Ring Kit214Washer, Machae63Seal Plug - Skite213Washer, Head 14-28 X.1.75 WPatch64Retaining Ring Akae <td>36</td> <td></td> <td></td> <td></td>	36			
38Bypass PitateSeal, Lip. 98 X, 135 X, 27690Lip SealSeal, Lip 17 X 40 X 540Lip SealSeal, Lip 17 X 40 X 541Bypass Arm135Washer, S31 X 1, 250 X, 092 (Belleville)42Retaining Ring136Fan, 6', 10 Blade43Pin137Kit, Fan-Pulley44ScrewWasher, S31 X 1, 250 X, 092 (Belleville)45FritterFan, 6', 10 Blade46FilterHex Lock Nut 172-20 (Nylon Insert)50Screw, 1/4-20 X, 75 LongHex Lock Nut 172-20 (Nylon Insert)5114T Bevel Gear14153S3T Spur Gear14254Motor Shaft20755Braft Avie 25mm X 14 (D,D)209Avier Shaft20856Screw, 1/4-20 X, 75 (Patch)57Satt Avie 25mm X 14 (D,D)58Seal, Lip 17 X 40 X 759Screw, Sing, Grake Arm Bias56Shaft Avie 25mm X 14 (D,D)58Seal Plug - Side59Screw, Sing, Grake Arm Bias50Seal Plug - Side51Strew Sing Ring Kit52Bearing-Ball 20 X 47 X 14 (6204)53Sattension54Metaining Ring Kit55Bearing-Ball 20 X 47 X 14 (6204)56Bearing-Ball 20 X 47 X 14 (6204)57Washer, Filat 22 X, 73 X, 06358Bearing-Ball 20 X 47 X 14 (6204)59Bearing-Ball 20 X 47 X 14 (6204)51Retaining Ring Kit51Retaining				
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41         Bypass Arm         135         Washer, 531 X 1.250 X.092 (Belleville)           42         Retaining Ring         136         Fan, 6', 10 Blade           43         Pin         137         Kit, Fan-Pulley           44         Screw         Washer, 531 X 1.250 X.092 (Belleville)           46         Filter         Fan, 6', 10 Blade           49         Hex Lock Nut 1/2-20 (Nylon Insert)         Fan, 6', 10 Blade           41         Washer, 34 X .88 X .03         Hex Lock Nut 1/2-20 (Nylon Insert)           51         14T Bevel Gear         141         Washer, Bypass           53         53T Spur Gear         142         Washer, Bypass           54         Motor Shaft         206         Spacer, RTN           55         Brake Shaft         208         Screw, 5/16-24 X .75 (Patch)           56         Shaft, Akle 25mm X 14 (D,D)         209         Spring, Extension           Akle Shaft         210         Hose 0.50 X 4.00         210           58         Seal, Lip 17 X 40 X 7         211         Screw, Hex Head 1/4-28 X 1.75 W/Patch           59         Brake Shaft         212         Spring, Brake Arm Bias           61         Bearing-Ball 20 X 47 X 14 (6204)         215         Washer, Nylon				
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43Pin137Kit, Fan-Pulley44ScrewWasher, 531 X 1.250 X .092 (Belleville)45FilterFan, 6°, 10 Blade49Hex Lock Nut 1/2-20 (Nylon Insert)Pulley, 4.550Screw, 1/4-20 X.75 LongPulley, 4.55114T Bevel Gear1415219T Bevel Gear1415353T Spur Gear14254Motor Shaft20755Shaft, Ake 25mm X 14 (D,D)20856Shaft, Ake 25mm X 14 (D,D)20978Seal, Lip 17 X 40 X 721158Seal, Lip 17 X 40 X 721150Screw, Hex Head 1/4-28 X 1.75 W/Patch50Sating Ring - Axie21351Barake Shaft21452Barang-Ball 20 X 47 X 14 (6204)21554Retaining Ring fil21455Bearing-Ball 20 X 47 X 12 (6205)21656Seal Ring247 X 12 (6205)57Retaining RingWasher, Filt - 28 X .75 X .06358Retaining RingWasher59Retaining RingKit50Sorie, Stric-24 X .75 (Patch)51Arke ArmScrew, 14-20 X 7/853Sorie, Stric-24 X .75 (Patch)54Motor Shaft55Bearing-Ball 20 X 47 X 12 (6205)56Seal57Retaining Ring58Retaining Ring Akae59Barake Arm50Sorie, Stric-24 X .75 (Patch)51Retaining Ring62 <td></td> <td></td> <td></td> <td>, , , , , , , , , , , , , , , , , , , ,</td>				, , , , , , , , , , , , , , , , , , , ,
44         Screw         Washer, S31 <sup>5</sup> 1, 1.250 X.092 (Belleville)           46         Filter         Fan, 6 <sup>+</sup> , 10 Blade           49         Hex Lock Nut 1/2-20 (Nylon Insert)         Hex Lock Nut 1/2-20 (Nylon Insert)           50         Screw, 1/4-20 X.75 Long         Pulley, 4.5           51         14T Bevel Gear         141         Washer, 34 x.88 x.03           52         19T Bevel Gear         142         Washer, 34 x.88 x.03           53         53T Spur Gear         143         Brake Cover           54         Motor Shaft         207         Spacer, RTN           55         Brake Shaft         208         Screw, 1/4-20 X.75 U/Patch           56         Shaft, Avle 25mm X 14 (D,D)         209         Spring, Erake Arm Bias           58         Seal, Lip 17 X 40 X 7         210         Hose 0.50 x 4.00           58         Seal, Jip 17 X 40 X 7         211         Screw, Hex Head 1/4-28 X 1.75 W/Patch           59         Retaining Ring rig - Axle         213         Washer, Flat. 28 X.73 X .063           50         Bearing-Ball 20 X 47 X 14 (6204)         215         Washer           51         Bearing-Ball 20 X 47 X 12 (6205)         216         Kit, RTN           56         Bearing-Ball 20 X 47 X 12 (6205)         <				
46FilterFan. 6", 10 Blade49Hex Lock Nut 1/2-20 (Nylon Insert)Hex Lock Nut 1/2-20 (Nylon Insert)50Screw, 1/4-20 X.75 LongHex Lock Nut 1/2-20 (Nylon Insert)5114T Bevel Gear141Washer, 34 x.88 x.035353T Spur Gear142Washer, Spapass54Motor Shaft207Spacer, RTN55Brake Shaft208Screw, 5/16-24 X.75 (Patch)56Shaft, Asle Z5mm X14 (D,D)209Spring, Extension78Seal, Lip 17 X 40 X 7210Hose 0.50 x 4.0058Seal, Lip 17 X 40 X 7211Screw, Hex Head 1/4-28 X 1.75 W/Patch60Seal Plug - Side212Spring, Brake Arm Bias61Retaining Ring - Axle213Washer, Flat .28 X.73 X .06362Retaining Ring - Axle214Brake Assy. Spacer63Retaining Ring Ring - Axle215Washer, Flat .28 X.73 X .06364Bearing-Ball 20 X 47 X 12 (6205)216Kit, RTN65Bearing-Ball 20 X 47 X 12 (6205)216Kit, RTN66SealSpacer, RTNSpacer, RTN71RH, Brake Arm Service AssySpring, Extension73Disc Brake Yoke Brake RotorControl Arm74Hex Masher Head Screw, 1/4-20 X 7/8Arm, RTN Scissor, Outer75Hex Mut 5/16-18O-Ring76Hex Nut 5/16-18O-Ring77Ride Arm Brake Disc21778Aske Kothe Brake RotorCap-Poppet Valve79Disc Br			137	
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50         Screw, 1/4-20 X.75 Long         Pulley, 4.5           51         14T Bevel Gear         141         Washer, Bypass           52         19T Bevel Gear         142         Washer, Bypass           53         53T Spur Gear         143         Brake Cover           54         Motor Shaft         207         Spacer, RTN           55         Brake Shaft         208         Screw, 5/16-24 X.75 (Patch)           56         Shaft, Axle 25mm X 14 (D,D)         209         Spring, Extension           Axle Shaft         210         Hose 0.50 x 4.00           58         Seal, Lip 17 X 40 X 7         211         Screw, Hex Head 1/4-28 X 1.75 W/Patch           60         Seal Ping - Skide         212         Spring, Brake Arm Bias           61         Retaining Ring - Axle         213         Washer, Hext Assy, Spacer           62         Retaining Ring - Axle         216         Washer, Nylon           63         Bearing-Ball 20 X 47 X 14 (6204)         216         Washer           64         Bearing-Ball 20 X 47 X 14 (6204)         216         Kit, RTN           66         Seal         Washer         Nylon           67         Retaining Ring Ing-Axle         Screw, 5/16-24 U,NJF (Nylon Insert)	46			
51       14T Bevel Gear       141       Washer, 34 x 88 x .03         52       19T Bevel Gear       142       Washer, 34 x .88 x .03         53       53 Spur Gear       143       Brake Cover         54       Motor Shaft       207       Spacer, RTN         55       Brake Shaft       208       Screw, 5/16-24 X.75 (Patch)         56       Shaft, Axle 25mm X 14 (D,D)       209       Spring, Extension         Axle Shaft       210       Hose 0.50 x 4.00         58       Seal, Lip 17 X 40 X 7       211       Screw, 5/16-24 X.75 (Patch)         60       Seal Plug - Side       212       Spring, Brake Arm Bias         61       Retaining Ring rAxle       214       Brake Assy. Spacer         62       Retaining Ring Kit       214       Brake Assy. Spacer         64       Bearing-Ball 20 X 47 X 14 (6204)       216       Kit, RTN         65       Bearing-Ball 20 X 47 X 12 (6205)       216       Washer         66       Seal       Washer       Hex Lock Nut, 5/16-24 UNJF (Nylon Insert)         67       Retaining Ring-Axle       Screw, Sylic 24 X .75 (Patch)         70       Arm, Brake       Spring, Extension       Spring, Extension         71       RH, Brake Arm Service Assy<				
52       19T Bevel Gear       142       Washer, Bypass         53       53T Spur Gear       143       Brake Cover         54       Motor Shaft       207       Spacer, RTN         55       Brake Shaft       208       Screw, 5/16-24 X. 75 (Patch)         56       Shaft, Axle 25mm X 14 (D,D)       209       Spring, Extension         Axle Shaft       210       Hose 0.50 x 4.00         58       Seal, Lip 17 X 40 X 7       211       Screw, Hex Head 1/4-28 X 1.75 W/Patch         60       Seal Plug - Side       213       Washer, Flat. 28 X. 73 X. 063         61       Retaining Ring - Axle       214       Brake Assy. Spacer         62       Retaining Ring Kit       216       Kit, RTN         63       Bearing-Ball 20 X 47 X 12 (6205)       216       Kit, RTN         64       Bearing-Ball 20 X 47 X 12 (6205)       216       Kit, RTN         65       Bearing Ring       Spring, Extension       Spring, Extension         66       Seal       Spring, Extension       Washer         70       Arm, Brake       Spring, Extension       Spring, Extension         71       RTH, Brake Arm Service Assy       Spring, Extension       Spring, Extension         8rake Arm       Cos				
53       53T Spur Gear       143       Brake Cover         54       Motor Shaft       207       Spacer, RTN         55       Brake Shaft       208       Screw, 5/16-24 X.75 (Patch)         56       Shaft, Axle 25mm X 14 (D,D)       209       Spring, Extension         Axle Shaft       210       Hose 0.50 x 4.00         58       Seal, Lip 17 X 40 X 7       211       Screw, Hext Head 1/4-28 X 1.75 W/Patch         60       Seal, Plug - Side       212       Spring, Brake Arm Bias         62       Retaining Ring - Axle       213       Washer, Flat .28 X.73 X.063         63       Retaining Ring Kit       216       Kit, RTN         64       Bearing-Ball 20 X 47 X 14 (6204)       215       Washer, Nylon         65       Bearing-Ball 20 X 47 X 12 (6205)       216       Kit, RTN         66       Seal       Washer       Sprew, 5/16-24 X.75 (Patch)         67       Retaining Ring       Screw, 5/16-24 X.75 (Patch)       Spring, Extension         71       Rh, Brake Arm Service Assy       Sprew, F/16-24 X.75 (Patch)       Spring, Extension         73       Disc Brake Arm Brake Otor       Cog Brake Arm Brake Disc       Arm, RTN Scissor, Outer       Arm, RTN Scissor, Outer         73       Disc Brake Arm Brake		14T Bevel Gear		Washer, .34 x .88 x .03
54         Motor Shaft         207         Spacer, RTN           55         Brake Shaft         208         Screw, 5/16-24 X.75 (Patch)           56         Shaft, Axle 25mm X 14 (D,D)         209         Spring, Extension           Axle Shaft         210         Hose 0.50 x 4.00           58         Seal, Lip 17 X 40 X 7         211         Screw, Hex Head 1/4-28 X 1.75 W/Patch           60         Seal Plug - Side         212         Spring, Brake Arm Bias           62         Retaining Ring - Axle         213         Washer, Flat .28 X.73 X.063           63         Retaining Ring - Xxle         214         Brake Arsy. Spacer           64         Bearing-Ball 20 X 47 X 14 (6204)         215         Washer, Nylon           65         Bearing-Ball 20 X 47 X 12 (6205)         216         Kit, RTN           66         Seal         Washer         Hex Lock Nut, 5/16-24 UNJF (Nylon Insert)           67         Retaining Ring-Axle         Spacer, RTN         Screw, 5/16-24 UNJF (Nylon Insert)           70         Arm, Brake Arm         Screw, 5/16-24 UNJF (Nylon Insert)         Spacer, RTN           71         Rte, Brake Arm         Screw, 5/16-24 UNJF (Nylon Insert)         Spacer, RTN           71         Rteatarining Ring -Axle         Spring, Extension </td <td>52</td> <td>19T Bevel Gear</td> <td>142</td> <td>Washer, Bypass</td>	52	19T Bevel Gear	142	Washer, Bypass
54         Motor Shaft         207         Spacer, RTN           55         Brake Shaft         208         Screw, 5/16-24 X.75 (Patch)           56         Shaft, Axle 25mm X 14 (D,D)         209         Spring, Extension           Axle Shaft         210         Hose 0.50 x 4.00           58         Seal, Lip 17 X 40 X 7         211         Screw, Hex Head 1/4-28 X 1.75 W/Patch           60         Seal Plug - Side         212         Spring, Brake Arm Bias           62         Retaining Ring - Axle         213         Washer, Flat .28 X.73 X.063           63         Retaining Ring - Xxle         214         Brake Arsy. Spacer           64         Bearing-Ball 20 X 47 X 14 (6204)         215         Washer, Nylon           65         Bearing-Ball 20 X 47 X 12 (6205)         216         Kit, RTN           66         Seal         Washer         Hex Lock Nut, 5/16-24 UNJF (Nylon Insert)           67         Retaining Ring-Axle         Spacer, RTN         Screw, 5/16-24 UNJF (Nylon Insert)           70         Arm, Brake Arm         Screw, 5/16-24 UNJF (Nylon Insert)         Spacer, RTN           71         Rte, Brake Arm         Screw, 5/16-24 UNJF (Nylon Insert)         Spacer, RTN           71         Rteatarining Ring -Axle         Spring, Extension </td <td>53</td> <td>53T Spur Gear</td> <td>143</td> <td>Brake Cover</td>	53	53T Spur Gear	143	Brake Cover
56Shaft, Axle 25mm X 14 (D,D) Axle Shaft209Spring, Extension73Disc Brake Arm Brake Disc210Hose 0.50 x 4.0074Seal, Lip 17 X 40 X 7211Screw, Hex Head 1/4-28 X 1.75 W/Patch60Seal Plug - Side212Spring, Brake Arm Bias62Retaining Ring - Axle213Washer, Flat. 28 X. 73 X. 06363Retaining Ring Kit214Brake Assy. Spacer64Bearing-Ball 20 X 47 X 14 (6204)215Washer, Nylon65Bearing-Ball 20 X 47 X 12 (6205)216Kit, RTN66SealWasherHex Lock Nut, 5/16-24 UNJF (Nylon Insert)67Retaining Ring AxleSpacer, RTN70Arm, BrakeSpring, Extension71RH, Brake Arm Service AssySpring, Extension73Disc Brake Yoke Brake Rotor Cog Brake Arm Brake Disc21774Hex Nut 5/16-18O-Ring76Hex Nut 5/16-18O-Ring77Arke Bushing21778Axle BushingPlastic Vent	54		207	Spacer, RTN
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Clevis PinControl ArmBushing 0.255 X 0.381 X 0.330Arm, RTN Scissor, OuterHex Washer Head Screw, 1/4-20 X 7/8Arm, RTN Scissor, Inner73Disc Brake Yoke Brake Rotor217Cog Brake Arm Brake DiscPlastic Hose Fitting76Hex Nut 5/16-18O-Ring8020W-50 OilCap-Poppet Valve81Axle BushingPlastic Vent		Brake Arm		Washer, Nylon
Bushing 0.255 X 0.381 X 0.330     Arm, RTN Scissor, Outer       Hex Washer Head Screw, 1/4-20 X 7/8     Arm, RTN Scissor, Inner       73     Disc Brake Notor     217       Cog Brake Arm Brake Disc     Plastic Hose Fitting       76     Hex Nut 5/16-18     O-Ring       80     20W-50 Oil     Cap-Poppet Valve       81     Axle Bushing     Plastic Vent				
Hex Washer Head Screw, 1/4-20 X 7/8     Arm, RTN Scissor, Inner       73     Disc Brake Notor Cog Brake Arm Brake Disc     217     Kit, Breather Assembly Plastic Hose Fitting       76     Hex Nut 5/16-18     O-Ring       80     20W-50 Oil     Cap-Poppet Valve       81     Axle Bushing     Plastic Vent				
73     Disc Brake Yoke Brake Rotor Cog Brake Arm Brake Disc     217     Kit, Breather Assembly Plastic Hose Fitting       76     Hex Nut 5/16-18     O-Ring       80     20W-50 Oil     Cap-Poppet Valve       81     Axle Bushing     Plastic Vent				
Cog Brake Arm Brake DiscPlastic Hose Fitting76Hex Nut 5/16-18O-Ring8020W-50 OilCap-Poppet Valve81Axle BushingPlastic Vent	73		217	
76Hex Nut 5/16-18O-Ring8020W-50 OilCap-Poppet Valve81Axle BushingPlastic Vent			1 - ''	
80     20W-50 Oil     Cap-Poppet Valve       81     Axle Bushing     Plastic Vent	76			
81 Axle Bushing Plastic Vent				
	82	Axie Busning		Hose



### 310-2600 ITEMS LIST

1         Kit Husing Main Husing Main Cradit Bearing U Sale         200%-50 Cit Waster           2         Cover Husing U Sale         200%-50 Cit Waster           3         Cover Husing D Sale         200%-50 Cit Waster           3         Cover Husing D Sale         200%-50 Cit Waster           3         Cover Husing D Sale         200%-50 Cit Waster           4         Cover Gator         200%-50 Cit Waster           5         Cover Gator         200%-50 Cit Waster           6         Cover Gator         200%-50 Cit Waster           7         Medar Plug         Plasts Plug           8         Plasts Plug         Plasts Plug           9         Plasts Plug         Plasts Plug           9         Plasts Plug         Plasts Plug           9         Plasts Plug         Plasts Plug           10         Variable SamaPost Plast Plug         Plasts Plug           11         SamaP         120         Plugt Plasts Plug           12         Input Plasts Plug         123         SamaP           13         Cover Back         Plugt Plasts Plug         Plugt Plasts Plug           14         Kit Plugt P			1	310-2000 TI EIVI3 LI31
Holang, Main         80         20/V-50 Cili           Craceb Bearing         80         Water           Tup Bear         83         O-Ring           2         Screw         44         Assembly Gentor           2         Screw         44         Assembly Gentor           2         Corer Section         80           2         Corer Section         90           Battle Plug         90         Plastic Plug           Charge Flatters Spring         10         Hatting O-Plug Assembly           Charge Flatters Battle Plug         10         Plastic Flatters Battle Plug           Battle Battle Plug         Care Plug Attin Plug         10           10         Variable Swarbpate         12         Plug Attin Plug           11         Turna Battle Spring         12         Plug Attin Plug           12         Plug Attin Plug         12         Plug Attin Plug           13         Turna Battle Plug         Plug Attin Plug         12           14         Spring Eastle Plug         Spring Eastle P	No.	DESCRIPTION	No.	DESCRIPTION
Cradie Beaming         81         Washer           Trunking Bushing         81         Washer           Screw         84         Assembly Genotor           2         Lower Housing         84         Assembly Genotor           3         Cortle Section Assembly Kil         89         Screw           Bushing         89         Plant Full         80           Bushing         89         Screw         80           Bushing         80         Plant Full         80           Bushing         100         Screw         100           Screw         100         Screw         100           Charge Check Ball         100         Not Reached         100           Charge Check Ball         100         Pating Assembly         100           Bab         Cap Verit Assembly         Cap Verit Assembly         100           Bab         Bab         110         Cap Verit Assembly         100           Bab         Bab         Screw         Screw         100         Screw           Bab         Bab         Screw         Screw         Screw         Screw           Bab         Bab         Screw         Screw         Screw <t< td=""><td>1</td><td></td><td>1</td><td></td></t<>	1		1	
Turnion Bushing82WasherLo Seal0.2Lower Hushing83Cover Gentor2Lower Hushing85Cover Gentor3Contro Sector Assembly Kit85Cover Gentor897Metal Plog9897Metal Plog99Book Vate Assembly9790Social Manual Mathematic9791Social Vate Assembly9892Social Vate Assembly9893Social Vate Assembly9894Data Plante9894Data Plante9895Social Vate Assembly9894Data Plante9895Social Vate Assembly9894Data Plante9895Social Vate Assembly9895Social Vate Assembly9896Bata Plante9897Reshing Ring1398Bata Plante1398Bata Plante1399Plante Ring1390Variable Swahiplante9891Tour Sale9891Tour Sale9891Tour Sale9891Tour Sale9891Tour Sale9891Tour Sale9891Tour Sale9891Tour Sale9891Tour Sale9891Tour Sale9892Tour Sale9893S				
Lu Seal Lu Sea				
Score     64     Assembly Gardion       2     Lower Housing According (Gardion)     64     Assembly Gardion       3     Control Social (Gardion)     65     Control Control       3     Butting     69     Plastic Fulg       3     Butting     100     Salahit       3     Stock View Assembly     100     Salahit       3     Stock View Assembly     100     Nut, Fraz 201-13       4     Roll (Factor Fill)     100     Nut, Fraz 201-13       6     Wire Relating Filling     100     Nut, Fraz 201-13       7     Rationing Filling     100     Can View Assembly       6     Wire Relating Filling     100     Can View Assembly       7     Rationing Filling     100     Variable Swatchilde       8     Stock View Filling     100     Variable Swatchilde       10     Variable Swatchilde     100     Stock View Filling       11     Tranzt Bearing Filling     100     Stock View Filling       12     Input Shat     Stock View Filling     Stock View Filling       13     Tranzt Bearing Stock Stock View Filling     Stock View Filling       14     Stock View Filling     Stock View Filling     Stock View Filling       15     Variable Swatchilde     Stock View Fil				
2         Lower Housing         85         Cover Gerotar           3         Control Scient Assembly KB         85         Server           3         Control Scient Assembly KB         90         Plantic Plug           3         Bayass Plate         90         Plantic Plug           3         Control Scient Assembly         100         Scient           3         Charge Check Buil         100         Flatting Origin           4         Lip Seal         100         Flatting Origin           6         Spreas         Scient Assembly         Planting Planting Planting Origin           4         Lip Seal         100         Flatting Origin           6         Spreas         200         Planting Pl				
3)         Cartler Section         86         Screw           Cartler Section         7         Mell Plug           Babling         70         Phasin Plug           Charge Section         70         Phasin Plug           Babling         70         Plug           Babling         70         Plug           Babling         70         Plug           Babling         70         Plug	2			
Cartler Section     87     Metal Plug       Bushing     99     Platter Plug       Byrow     107     Stature       Strok Vide Assembly     Lug Balt       Charge Relief Spring     Lug Balt       Relief Plate     Lug Balt       Both     Platter Malt       Both     Platter Malt <t< td=""><td>2</td><td></td><td></td><td></td></t<>	2			
Bushing         99         Planic Puig           Bypass Plate         99         Planic Puig           State         107         Hub Assembly           Charge Check Ball         108         Nut, Hex 34-18           Olarge Check Ball         108         Nut, Hex 34-18           Olarge Check Ball         108         Nut, Hex 34-18           Big Ball Bacing         108         Nut, Hex 34-18           Ring Magnet         110         Filter Q-Fing Assembly           Carpe Check Ball         Carpe Check Mail         Carpe Check Mail           A         Lip Seal         Carpe Check Mail         Carpe Check Mail           4         Lip Seal         Carpe Check Mail         Carpe Check Mail           5         Space         Space Mail         Carpe Check Mail           7         Retaining King         Space Mail         Space Mail           8         Ball Bacing         Space Mail         Space Mail           10         Variable Swashpiele         Space Mail         Space Mail           11         Took Space Main         Space Mail         Space Mail           12         Variable Swashpiele         Space Mail         Space Mail           13         Conestat Main         Spac	5			
Bypass Plate         100         Scalant           Screen         Jack Jack Jack Jack Jack Jack Jack Jack				
Shock Valee Assembly     Hub       Charge Check Ball     10       Nut, Hox Carp Assembly     10       Relet Place     10       Bott     0-Ring       Wire Retaining Ring     120       Pattering Ring     123       Screw     Screw       11     Impl Stath       12     Pathon A       13     Cover-Back       14     Spring, Block Carl Aray       15     1000 Chinder Block Asy       1000 Chinder Block Asy     Seath, Lip 10.3.2.8.7 7       1100 Color Block Asy     Seath, Lip 10.3.2.8.7 7       121     Forthold Spring     Seath, Lip 10.3.2.8.7 7       122     Forthold Spring     Seath, Lip 10.3.2.8.7 7       123     Strew A     Seath, Lip 10.3.2.8.7 7       124     Spring, Block Carl Aray     Seath, Lip 10.3.2.8.7 7       125     Forthold Block Asy     Seath, Lip 10.3.2.8.7 7       126     Seath     Seath       127     Zito Chinder Block Asy     Seath, Lip 10.3.2.1.1.1.1.1.1.1.1.1		Bypass Plate	100	
Charge Relist Spring <sup>1</sup> Lug Bolt       Charge Relist Spring <sup>1</sup> 110       Charge Check Ball     110       Biol     110       Filting C-Rang Assembly     Construct       Biol     110       Carge Mark Ball     110       States     200 -Poppel Valve       States     200 -Poppel Valve       States     200 -Poppel Valve       Biol     200 -Poppel Valve       States     200 -Poppel Valve       Biol     200 -Poppel Valve		Screw	107	Hub Assembly
Charge Check Ball C-Bring Relief Plate Entry Magnet Lip Seal Space Fing Magnet Lip Space Fing Magnet Fing Magnet Hing Magnet H				
O-Ring     Pailed Plate       Bolt     Pailed Plate       Bolt     Pailed House       Bolt     Pailed House       Bolt     Pailed House       Spacer     Bolt Spacer       G     Wire Realing Ring     120       T     Balt Searing     121       Balt Searing     123     Rang Realining       T     Input Stating     123       Spacer     Screw     Searing House       T     Input Stating     123       Spacer     Screw     Searing House       T     Input Stating     123       Spacer     Screw     Searing Lip 10.2 Stating       11     Thrust Bearing 200 Stating     Searing Lip 10.2 Stating       12     Input Stating     Screw       13     Cown-Back     Searing Lip 10.2 Stating       14     Spracer     Searing Lip 10.2 Stating       15     Toto Cynner Block Assy     Searing Lip 10.2 Stating       16     Vester     Pailon Searing       17     Toto Cynner Block Assy     Searing Lip 10.2 Stating       18     Washer     Toto Cynner Block Assy       19     Wester     Toto Cynner Block Assy       21 to Cynner Block Assy     Searing Lip 10.2 Stating Lip 10.2 Stating Lip 10.2 Stating Lip 10.2 Stating Lip 10.2 Statin				
Relief Plate         Plastic Hose Fitting           Both         11         Car, Varit Assembly           Fitting Magnet         111         Car, Varit Assembly           Wire Retaining Ring         120         Pulley 4.73 Inch           Ball Searing         123         Screw           Ball Searing         123         Screw           Thrus Bearing 20 X 52 X 13         123         Screw           12         Input Shaft         Screw           13         Cover Back         Seal, Lip 15 X 35 X 7           14         Spring, Block         Screw           15         1000 Cyniter Block Assy         Ball Searing 20 X 52 X 13           14         Spring, Block         Seal, Lip 10 X 25 X 7           15         1000 Cyniter Block Assy         Ball Searing 20 X 50 X 77           14         Spring, Block         Ball Searing 20 X 77           15         1000 Cyniter Block Assy         Ball Searing 20 X 77           1000 Plotton Spring         Ball Searing 20 X 77         Sear, Lip 36 X 276           1100 Cyniter Block Assy         Ball Searing 21 X 80 X 77         Sear, Lip 36 X 276           1100 Cyniter Block Assy         Ball Searing 21 X 80 X 77         Sear, Fitta Searing 21 X 80 X 77           120 Cynitor Block Assy				
Bolt         O-King           Ring Magnet         111           Gay Vern Assembly         Cap Vern Assembly           Gay Vern Assembly         Cap Vern Assembly           Total Section         Cap Vern Assembly           Total Section         Cap Vern Assembly           Total Bearing         Tables 4/3 Bindh           Cover-Back         Ring Retaining           Cover-Back         Seal, Lp 10 X28 X 7           String, Book         Seal, Lp 10 X28 X 7           Tota Cylinder Block Assy         Seal, Lp 10 X28 X 7           Tota Cylinder Block Assy         Seal, Lp 10 X28 X 7           Tota Cylinder Block Assy         Seal, Lp 10 X28 X 7           Tota Cylinder Block Assy         Seal, Lp 10 X28 X 7           Tota Cylinder Block Assy         Seal, Lp 10 X28 X 7           Tota Cylinder Block Assy         Seal, Lp 10 X28 X 7           Ztoc Cylinder Block Assy         Seal, Lp 10 X28 X 7           Ztoc Cylinder Block Assy         Seal, Lp 10 X28 X 7           Ztoc Cylinder Block Assy         Seal, Lp 10 X20 X 7           Ztoc Cylinder Block Assy         Seal X10			110	
Ring Magnet     111     Cap Vent Assembly       5 Space     Barb Vent       6 Space     Barb Vent       7 Washing Ring     123       8 Ball Bearing     123       9 Variab Swashplate     124       11 Thrust Bearing 30 X 52 X 13     126       12 Input Shaft     128       13 ConverBack     Seal. Lp 17 X 55 X 7       14 Dec Cylinder Block Assy     Seal. Lp 17 X 55 X 7       15 ConverBack     Seal. Lp 17 X 55 X 7       16 ConverBack     Seal. Lp 17 X 55 X 7       17 ConverBack     Seal. Lp 17 X 55 X 7       18 ConverBack     Seal. Point       19 ConverBack     Seal. Point       10 ConverBack     Seal. Point       10 ConverBack     Ring, Retaining       11 ConverBack     Ring, Retaining       12 ConverBack     Ring, Retaining       13 Cannoh     Ring, Retaining       14 Tarnoh Arm     135       15 Tarnoh     Ring, Retaining       16 Tarnoh Arm     136       17 Tarnoh Arm <td></td> <td></td> <td></td> <td></td>				
4         Lip Seal <sup>4</sup> Cal-Poppet Valve <sup>4</sup> 5         Spacer         Barb Vert           6         Wire Retaining Ring         120           7         Retaining Ring         120           10         Variable Swarphpate         123           11         Thrust Bearing 30 X 52 X 13         123           12         Input Shaft         Saul, Lip 15 X 35 X 7           13         Cover-Back         Saul, Lip 15 X 35 X 7           14         Spring, Block         Saul, Lip 15 X 35 X 7           15         10cc Origine Block Assy         Ring, Retaining           10c. Priston Spring         Filt 10000 X 1000         Saul, Lip 15 X 25 X 7           10c. Priston Spring         Filt 10000 X 1000         Saul, Lip 1000 X 25 X 7           10c. Priston Spring         Filt 10000 X 1000         Saul, Lip 1000 X 1000           10c. Priston Spring         Filt 10000 X 1000         Filt 10000 X 1000           21 to Cylinder Block Assy         Saul, Lip 1000 X 1000         Saul, Lip 1000 X 1000           21 to Cylinder Block Assy         Filt 10000         Filt 10000 X 1000           21 to Cylinder Block Assy         Filt 10000 X 1000         Filt 10000 X 1000           21 to Cylinder Block Assy         Filt 100000 X 1000         Filt 100000			111	
5 Spacer         Bab Writ           6 Wire Retaining Ring         120         Pulley 4.79 Inch           7 Retaining Ring         123         Screw           10 Retaining Ring         123         Screw           11 Thrust Bearing 30 X52 X 13         124         Kin Seal           12 Input Shaft         Screw         Seal. Lip 10 X53 X 7           13 Cover-Back         Seal. Lip 10 X53 X 7           14 Spring, Bock         Seal. Lip 10 X53 X 7           15 Disc Spring         Seal. Lip 10 X53 X 7           100 Collison Spring         Seal. Lip 10 X53 X 7           100 Collison Spring         Seal. Lip 10 X53 X 7           100 Collison Spring         Ring, Retaining Ring           100 Collison Spring         Ring, Retaining Ring           2 10 Collison Spring         Ring, Retaining Ring           2 10 Collison Spring         Ring, Retaining Ring           2 10 Collison Bring         Ring, Retaining Ring           2 10 Collison Bring <td>1</td> <td></td> <td>1 1 1 1</td> <td></td>	1		1 1 1 1	
6         Wire Retaining Ring         120         Pulley 4.79 Inch           7         Retaining Ring         123         Sorew           8         Bail Bearing         128         Ring Retaining           11         Throut Bearing 30.52 X 13         124         Sorew         Ring Retaining           12         Input Shaft         Sorew         Ring Retaining         Ring Retaining           13         Cover-Back         Ring Retaining         Sorew           14         Spring, Block         Ring, Retaining         Sorew           15         Tocc Cylinder Block Assy         Ring, Retaining         Sorew           150         Cover-Back         Ring, Retaining         Ring, Retaining           150         Visite Mesher         Sorew         Ring, Retaining           150         Visite Mesher         Total Sorew         Ring, Retaining           151         Kang Retaining         Ring, Retaining         Ring, Retaining           152         Trust Bearing 42.5 K 27         Ring, Retaining         Ring, Retaining           153         Ring Retaining         Ring, Retaining         Ring, Retaining           154         Kang Retaining         Ring, Retaining         Ring, Retaining           155 </td <td></td> <td></td> <td></td> <td></td>				
7     Relatining Ring     123     Sorew       8     Bull Bearing     124     Ring Retaining       10     Wariable Swashplate     134     Kit, Seal       11     Thrust Bearing 30 X52 X1 13     Seal, Lip 15 X 25 X 7       13     Cover-Back     Ball, Lip 15 X 25 X 7       14     Spring, Block     Seal, Lip 15 X 25 X 7       15     10cc Cylinder Block Asay     Seal, Lip 12 X 25 X 7       10cc Cylinder Block Asay     Seal, Lip 12 X 25 X 7       10cc Cylinder Block Asay     Seal, Lip 12 X 25 X 7       10cc Cylinder Block Asay     Seal, Lip 12 X 25 X 7       10cc Cylinder Block Asay     Seal, Lip 12 X 25 X 7       110     Washer     Ring, Retaining       111     Washer     Ring, Retaining       112     21cc Cylinder Block Asay     Ring, Retaining	6		120	
8     Ball Bearing     126     Ring Retaining       10     Waisble Swashplate     134     Kit, Seal       11     Thrust Bearing 30 X 52 X 13     Seal, Lip 15 X 35 X 7       13     Cover-Back     Seal, Lip 15 X 35 X 7       14     Got Phat     Seal, Lip 15 X 35 X 7       15     Oco Cylinder Block Assy     Seal, Lip 12 X 25 X 7       100     Cylinder Block Assy     Seal, Lip 12 X 25 X 7       100     Cylinder Block Assy     Seal, Lip 12 X 25 X 7       100     Cylinder Block Assy     Seal, Lip 10 X 25 X 7       100     Cylinder Block Assy     Seal, Lip 10 X 18 X 270       110     Washer     Seal, Lip 10 X 18 X 270       121     Z1cc Cylinder Block Assy     Ring, Retaining 40 External       122     Z1cc Cylinder Block Assy     Ring, Retaining 40 External       124     Washer     136     Fan, G <sup>+</sup> , 10 Blade       125     Thrust Bearing 42 X 68 X 16     137     Washer       216     Palo Bearing     138     Fan, G <sup>+</sup> , 10 Blade       27     Wire Relaining Ring     Washer     143       38     Lip Seal     143     Brake Cap       39     Standard Control Arm     143     Brake Cap       38     Brakes Cap     Ring Retaining Ring       39     S	7			
10     Variable Swashplate     124     Kit. Seal       11     Thrust Bearing 30 x 52 X 13     Seal, Lip 15 X35 X 7       12     Input Shaft     Seal, Lip 15 X35 X 7       13     Cover-Back     Seal, Lip 15 X35 X 7       14     Spring, Block     Seal, Lip 15 X35 X 7       15     10cc Chief Block Asay     Ring, Retaining       10cc Piston Spring     Ring, Retaining     Seal, Lip 10 X 25 X 7       10c Diston Filon Spring     Seal, Lip 10 X 25 X 7       21c Cylinder Block Asay     Ring, Retaining 40       21c Cylinder Block Asay     Ring, Retaining       21c Cylinder Block Asay     Ring, Retaining       21c Filon Spring     135     Ring, Retaining       21c Filon Spring     136     Face Filon Bloade       21c Filon Spring     137     Kit, Fan-Pulley       21c Filon Spring     138     Kit, Fan-Pulley       21c Filon Spring     137     Kit, Fan-Pulley       21c Filon Spring     138     Ring, Retaining       21     Trunsino Arm     142     Washer       23     Lip Seal     137     Kit, Fan-Pulley       34     Turnion Arm     142     Washer       35     Star Guide     137     Kit, Fan-Pulley       36     Rypass Arma     208     Spring, Extensio	8			
11     Thrust Bearing 20 X8 2X 13     Seal. Lip 15 X35 X7       13     Cover-Back     Seal. Lip 15 X35 X7       14     Spring, Block     Seal. Lip 10 X25 X7       15     Idoc Cylinder Block Assy     Seal. Lip 10 X25 X7       16     Cover-Back     Seal. Lip 10 X25 X7       17     Toto Cylinder Block Assy     Seal. Lip 10 X25 X7       18     Cover-Back     Seal. Lip 10 X25 X7       19     Washer     Seal. Lip 10 X25 X7       100 Cylinder Block Assy     Seal. Lip 10 X25 X7       21 Co Cylinder Block Assy     Ring, Retaining 4A0 External       21 Co Cylinder Block Assy     Ring, Retaining 4A0 External       21 Co Cylinder Block Assy     Ring, Retaining 4A0 External       21 Co Cylinder Block Assy     Ring, Retaining 4A0 External       21 Co Cylinder Block Assy     Ring, Retaining 4A0 External       21 Co Cylinder Block Assy     Ring, Retaining 4A0 External       21 Co Cylinder Block Assy     Ring, Retaining 4A0 External       21 Co Flaton     Ring Retaining 4A0 External       21 Co Flaton     Ring Retaining 4A0 External       21 Co Cylinder Block Assy     Ring, Retaining 4A0 External       23 Corp, Richer Block Assy     Ring, Retaining 4A0 External       24 Cord Baring Ring     Ring, Retaining 4A0 External       25 Corp, Richer Block Assy     Ring, Retaining 4A0 External </td <td>10</td> <td></td> <td></td> <td></td>	10			
12     input Shaft     Reitaning       13     Cover-Back     Seal. Lip 12 X 25 X 7       14     Spring, Block Assy     Seal. Lip 12 X 25 X 7       14     Spring, Block Assy     Seal. Lip 12 X 25 X 7       10cc Cylinder Block Assy     Seal. Lip 12 X 25 X 7       10cc Cylinder Block Assy     Seal. Lip 12 X 25 X 7       10cc Cylinder Block Assy     Seal. Lip 12 X 25 X 7       10cc Cylinder Block Assy     Seal. Lip 12 X 25 X 7       21cc Cylinder Block Assy     Ring, Retaining 4       21cc Cylinder Block Assy     Ring, Retaining       21cc Statu     Ring, Retaining	11			
14     Spring, Block     Seal, Lip 10 X 25 X 7       15     10cc Cylinder Block Assy     Ring, Retaining       10cc Cylinder Block Assy     Srew       10cc Cylinder Block Assy     Ring, Retaining       10cc Cylinder Block Assy     Ring, Retaining       10cc Cylinder Block Assy     Ring, Retaining       10c Cylinder Block Assy     Seal, Lip 08 X 108 X 276       12     21cc Cylinder Block Assy     Seal, Lip 08 X 108 X 276       12     21cc Cylinder Block Assy     Ring, Retaining       12     21cc Cylinder Block Assy     Ring, Retaining       12     21cc Cylinder Block Assy     Ring, Retaining       14     Washer     136     Fan, 6', 10 Blade       14     Washer, Block Trust     136     Fan, 6', 10 Blade       25     Thrust Bearing Att 2 K 68 X 16     137     Kit, Fan-Puley       26     Ball Bearing     143     Brake Cap       27     Wire Retaining Ring     142     Washer       38     Lip Seal     143     Brake Cap       39     Washer Mut, 5/16-24 UNJF (Nyton Insert)     208     Spring, Extension       38     Bypass Artuator     208     Spring, Extension       39     Bypass Artuator     209     Spring, Extension       31     Thine Assembly     Arm, RTN	12	Input Shaft		
10c Cylinder Block Assy     Ring, Retaining       10c Cylinder Block     Scal, Plug       Piston Sart Washer     Ring, Retaining 440 xternal       10c Cylinder Block Assy     Ring, Retaining 440 xternal       10c Cylinder Block Assy     Ring, Retaining 440 xternal       21c Cylinder Block Assy     Ring, Retaining       21d Cylinder Block Assy     Ring, Retaining <td>13</td> <td></td> <td>1</td> <td>Seal, Lip 12 X 25 X 7</td>	13		1	Seal, Lip 12 X 25 X 7
10cc Cylinder BlockScrew10cc Cylinder BlockScrew10cc Piston Sent WasherRing, Retaining10c Cylinder Block AssyRing, Retaining11WasherScal, Lip, 98, V1.65 X.2761221cc Cylinder Block AssyRing, Retaining21cc Diston13821cc Piston13821cc Piston13821cg Piston13821cg Piston13821cg Ring RingHart Acok Nut 20031Trunnion Arm32Lip Seal33Lip Seal34Control Arm35Stardar Control Arm Nut36Stardar Control Arm Nut37Washer38Stardar Control Arm Nut39Spass Actuator40Lip Seal41Bypass Actuator42Retaining Ring43Print44Screw45Fill Resembly46Filler Assembly47Hex Lock Nut 172:0 (Nylon Insert)48Filler Assembly49Hex Lock Nut 172:0 (Nylon Insert)40Lip Seal41Bypass Armator42	14		1	
10cc Péton SpringSeal, PlugPiston Seat WasherRing, Retaining10cc PistonRing, Retaining, 440 External2121cc Cylinder Block AssyRing, Retaining21 cc Cylinder BlockRing, Retaining21 cc Cylinder BlockRing, Retaining21 cc Piston SpringRing, Retaining21 cc Piston Spring13521 cc Piston Spring13621 cc Piston Spring13821 cc Piston Spring13821 cc Piston Spring13821 cc Piston Spring13821 cc Piston13821 cc Piston Spring13821 cc Piston Spring14221 cc Piston Spring14322 cc Piston Piston20723 cc Piston Piston20824 cc Piston Piston20825 cc Piston Piston20826 control Arm20827 cc Piston Piston20828 pass Actuator20929 piston21529 piston21529 piston21520 piston21621 cc Piston21722 cc Piston21823 cc Piston218<	15		1	
Piston Seat WasherRing. Retaining10c DritonRing. Retaining 440 External19WasherSeal. Lip. 98. X1.85 X.2761221cc Cylinder Block AssyRing. Retaining21cc Driton SpringRing. Retaining21cc Driton SpringRing. Retaining21cc Driton Seat Washer13521c Trust Bearing 42 X 68 X 1613721c Trust Bearing 10012021c Trust Bearing 10012121c Trust Bearing 100121 <t< td=""><td></td><td></td><td>1</td><td></td></t<>			1	
10cc PistonRing, Retaining2121cc Cylinder Block Assy2121cc Cylinder Block Assy21cc Cylinder Block Assy21cc Piston SpringPiston Seat Washer21cc Piston Seat Washer21cc Piston Trust21cc Piston Seat Washer21cc Piston Seat Washer21cc Piston Seat Washer21cc Piston Seat Washer21cc Piston Trust Bearing 42 X 68 X 1625262727282929212222232425242525252627282829292920202021212223242525252626272829 <td></td> <td></td> <td></td> <td></td>				
19     Washer     Seal, Lip. 984, 155 X, 276       21     21cc Cylinder Block Assy     Ring, Retaining       21     21cc Cylinder Block Assy     Ring, Retaining       21     21cc Cylinder Block     Ring, Retaining       21     21cc Cylinder Block Thrust     135       24     Washer     135       25     Thrust Bearing 42 X 68 X 16     137       26     Ball Bearing     137       27     Wire Retaining Ring     138       30     Stot Guide     142       31     Tin Seal Arm     142       32     Control Arm     143       33     RTIN Hex Lock Nut, 5/16-24 UNUF (Nylon Insert)     206       34     Control Arm     143       35     RTIN Hex Lock Nut, 5/16-24 UNUF (Nylon Insert)     207       36     Spacer, RTN       37     RTIN Arm     150       38     Bypass Artuator     210       39     Bypass Artuator     210       41     Bypass Arm     216       42     Retaining Ring     216       43     Pin     216       44     Screw, 114-20 (Nylon Insert)       45     Filter Assembly       46     Filter Assembly       47     Thevel Gear <td< td=""><td></td><td></td><td></td><td>Ring, Retaining</td></td<>				Ring, Retaining
2121cc Cylinder Block AssyRing, Retaining21cc Cylinder BlockRing, Retaining21cc Piston Spring135Washer, Block Trust136Washer, Block Trust136Kasher, Block Trust136Kasher, Block Trust137Kit, Fan-PulleyWasher25Trust Bearing 42 X 68 X 16Casher, Block Trust137Kit, Fan-PulleyWasher26Ball Bearing27Wire Retaining Ring31Trunnion Arm31Trunnion Arm31Lip Seal32RTI Hex Lock Nut, 5/16-24 UNJF (Nylon Insert)33Balbase Plate Kit34Control Arm35Balbase Plate Kit39Bypass Artuator30Bypass Artuator41Bypass Arm42Retaining Ring43Brite Kasembly44Screw, 114-20 (Nylon Insert)45Pin46Filter Assembly47Filter Assembly48Screw, 114-20 (Nylon Insert)49Screw, 114-20 (Nylon Insert)40Filter Assembly41Bypass Arm42Stating Ring, Patient43Screw44Screw45Pin46Filter Assembly47Stating Ring - Axie48Stating Ring - Axie49Stating Ring - Axie40Stating Ring - Axie41Bypase Ring Kit42Statin	10			
21cc Cylinder BlockRing, Retaining21cc Cylinder BlockNing, Retaining21cc Piston Seat Washer13621cc Piston Seat Washer13621cc Piston Seat Washer13625Thust Bearing 42 K 08 X 1626Ball Bearing27Wire Retaining Ring30Slot Guide31Tunnion Arm32Lip Seal33Lip Seal34Control Arm35RTM Hex Lock Nut, 5/16-24 UNJF (Nyion Insert)36Bypass Plate kit37Bypass Actuator38Bypass Actuator39Bypass Actuator40Lip Seal41Strander Control Arm Nut38Bypass Actuator40Lip Seal41Bypass Actuator42Retaining Ring43Prin44Screw45Thus Yator46Filter Assembly47Hex Lock Nut, 17-20 (Nyion Insert)48Screw49Hex Lock Nut, 17-20 (Nyion Insert)5114T Bevel Gear5253T Spur Gear53Stard Mather54Motor Shaft55Brake Shaft56Avie Shaft57Brake Shaft58Seal, Lip 17 X 40 X 759Brake Shaft59Brake Shaft50Retaining Ring51Brake Shaft52Starting Ring54Retaining Ring55 <td< td=""><td></td><td></td><td></td><td></td></td<>				
21cc Piston Spring         Ring, Retaining           Piston Seat Washer         135         Washer           21cc Piston         136         Fan. 6", 10 Biade           24         Washer, Block Thrust         137         Kit, Fan-Pulley           25         Thrust Bearing 42X 68 X 16         138         Kit, Fan-Pulley           26         Ball Bearing         137         Kit, Fan-Pulley           27         Wire Retaining Ring         Washer           30         Stot Guide         Pulley, 4.79"           31         Trunnion Arm         142         Washer           34         Control Arm         150         Ring, Retaining           34         Control Arm Nut         208         Sorter, CIP6-24 UNJF (Nyion Insert)         208           35         RTh Hex Lock Nut, 5/16-24 UNJF (Nyion Insert)         208         Sorter, CIP6-24 UNJF (Nyion Insert)           35         RTh Hex Lock Nut, 5/16-24 UNJF (Nyion Insert)         208         Sorter, CIP6-24 UNJF (Nyion Insert)           36         Bypass Actuator         210         Hose         208         Sorter, CIP6-24 UNJF (Nyion Insert)           37         Rth Assembly         210         Hose         208         Sorter, CIP6-24 UNJF (Nyion Insert)           41	21			
Piston Seat Washer         136         Washer           2'co: Piston         136         Fan, 6', 10 Blade           24         Washer, Block Thrust         136         Fan, 6', 10 Blade           25         Thrust Bearing 42 K 08 X 16         137         Kit, Ean-Pulley           26         Ball Bearing         Fan, 6', 10 Blade         Fan, 6', 10 Blade           27         Wire Retaining Ring         Fan, 6', 10 Blade         Fan, 6', 10 Blade           30         Slot Guide         Fan, 6', 10 Blade         Fan, 6', 10 Blade           31         Turnion Arm         Fan, 6', 10 Blade         Fan, 6', 10 Blade           32         Control Arm         Fan, 6', 10 Blade         Fan, 6', 10 Blade           33         Lip Seal         143         Brace Cap           34         Control Arm         142         Washer           35         RTM Hex Lock Nut, 5/16-24 UNJF (Nylon Insert)         206         Screw, 5/16-24 X, 75 (Patch)           36         Bypass Arbuato         210         Hose         210           41         Bypass Arbuato         210         Hose         215         Washer, Plastic           37         Pin         Arm, RTN         Arm, RTN         Arm, RTN         Arm, RTN				
21cc Piston136Fan. 6': 10 Blade24Washer, Block Thrust137Kit, Fan-Pulley25Thrust Bearing 42 X 68 X 16137Washer26Ball BearingFan. 6': 10 Blade27Wire Retaining RingHat Nock Nut 1/2-20 (Nylon Insert)28Stor GuidePulley, 4.7031Trunnion Arm142Washer34Control Arm150Ring Magnet35RTh Hax Lock Nut, 5/16-24 UNJF (Nylon Insert)207Spacer, RTN34Standard Control Arm Nut208Screw, 5/16-24 X. 75 (Patch)35RTh Hax Lock Nut, 5/16-24 UNJF (Nylon Insert)208Spring, Extension36Bypass Actuator210Hosher, Plastic37Bypass Actuator216Washer38Spras Actuator216Washer41Bypass Arm216Washer42Retaining Ring216Washer43ScrewArm, RTNArm, RTN44ScrewSpacer, RTN45Filter AssemblyArm, RTN46Filter AssemblyScrew, 3/16-24 X. 75 (Patch)51147 Bevel GearScrew, 3/16-24 X. 75 (Patch)53StaftScrew, 3/16-24 X. 75 (Patch)54Motor ShaftSpacer, RTN55Brake ShaftScrew, 3/16-24 X. 75 (Patch)56Seal, Lip 17 X 40 X 7Space57Seal, Lip 17 X 40 X 758Seal Marg59Screw, 3/16-24 X 7 X 14 (6204)<			135	
24         Washer, Block Thrust         137         Kit, Fan-Pulley           25         Thrust Bearing 42 K68 X 16 0         Washer         Final Palenting           26         Ball Bearing         Washer         Final Palenting           30         Stot Guide         Washer         Final Palenting           31         Tunnion Arm         142         Washer           33         Lip Seal         143         Brake Cap           34         Control Arm         208         Screw, 6/16-24 UNJF (Nylon Insert)           35         RTN Hex Lock Nut, 5/16-24 UNJF (Nylon Insert)         208         Spring, Extension           36         Bypass Actuator         210         Hose           37         Pin         Hose         Pin           48         Pin         215         Washer, Flastic           41         Bypass Arm         216         RTIN Kit           42         Retaining Ring         216         RTIN Scissor, Outer           43         Pin         Arm, RTN         Arm, RTN           44         Screw         Arm RTN Scissor, Outer         Control Arm           50         Screw         Motor Shaft         Screw, 14-20 X 75 Long         Spring, Extension				
25Thrust Bearing 42 X 68 X 16Washer26Ball BearingFan. 6*, 10 Blade27Wire Retaining RingFan. 6*, 10 Blade28Sto GuidePulley, 4, 79*31Trunnion Arm14232Lip Seal1333Lip Seal1334Control Arm15035RTN Hex Lock Nut, 5/16-24 UNJF (Nylon Insert)20736Bypass Plate Kit20837Bypass Plate Kit20938Bypass Plate Kit20939Bypass Actuator21040Lip Seal21541Bypass Artuator21642Retaining Ring21643Pin44Screw21644ScrewArm. RTN45Serew, 11/4-20 X,75 LongSarce, RTN50Screw, 11/4-20 X,75 LongSpacer, RTN5114T Bevel GearSpacer, RTN5219T Bevel GearSpacer, RTN54Motor ShaftSpacer, RTN55Brake ShaftSpacer, RTN56Axie ShaftSpacer, RTN57Retaining Ring - AxieSpacer, RTN58Beali Lip 17 X 40 X 759Seal Plug - Side59Retaining Ring - Axie59Brake Shaft50Bearing-Ball 20 X 47 X 14 (6204)56Bearing-Ball 20 X 47 X 12 (6205)56Seal57Retaining Ring - Axie58Brake Arm59 <td>24</td> <td></td> <td></td> <td></td>	24			
26Ball Bearing TFan. 6°, 10 Blade7Wire Retaining RingHex Lock Nut 1/2-20 (Nyion Insert)Pulley, 4.79°30Slot Guide142Washer31Trunnion Arm143Brake Cap33Control Arm150Ring Magnet34Control Arm207Spacer, RTN35RTN Hex Lock Nut, 5/16-24 UNJF (Nyion Insert)207Spacer, RTN36Bypass Plate Kit209Spring, Extension37Bypass Actuator210Hose38Bypass Actuator210Hose40Lip Seal215Washer, Plastic41Bypass Arm216RTN, Kit42Retaining RingWasher43Filer AssemblyArm, RTN Scissor, Outer44ScrewArm, RTN Scissor, Outer50Screw, 1/4-20 X.75 LongSpring, Extension51147 Bevel GearSpring, Extension54Motor ShaftSpring, Extension55Brake ShaftSpring, Extension56Retaining RingArm, RTN Scissor, Outer56Bearing-Bail 20 X 47 X 14 (6204)56SealSpacer, RTN57Retaining RingArm, CW RTN, Inner58Retaining Ring64Bearing-Bail 20 X 47 X 14 (6204)56Seal57Rike Shaft58Retaining Ring68Retaining Ring69Retaining Ring69Retaining Ring60Reta	25		1	
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31     Tunnion Arm     142     Washer       33     Lip Seal     143     Brake Cap       34     Control Arm     150     Ring Magnet       35     RTN Hex Lock Nut, 5/16-24 UNJF (Nylon Insert)     207     Spacer, RTN       36     Bypass Plate Kit     209     Spring, Extension       37     Bypass Actuator     210     Hose       40     Lip Seal     216     RTN, Hit       41     Bypass Artuator     216     RTN, Kit       42     Retaining Ring     216     RTN, Kit       43     Pin     Arm, RTN     Arm, RTN       44     Screw, 516-24 V.UJF (Nylon Insert)     Arm, RTN       45     Screw     Arm, RTN       46     Filter Assembly     Arm, RTN       47     Hex Lock Nut 1/2-20 (Nylon Insert)     Arm, RTN       50     Screw, 14-20 X, 75 Long     Spacer, RTN       51     141 Bevel Gear     Spacer, RTN       52     19T Bevel Gear     Screw, 516-24 X, 75 (Patch)       53     S3T Spur Gear     Washer, Plastic       54     Motor Shaft     Spacer, RTN       55     Brake Shaft     Arm, CW RTN, Inner       56     Seal, Lip 17 X 40 X 7     Space       57     Retaining Ring     Arm, CW RT	27			
33Lip Seal143Brake Cap34Control Arm Mut207Spacer, RTN35RTN Hex Lock Nut, 5/16-24 UNJF (Nylon Insert)207Spacer, RTN36Bypass Plate Kit209Spring, Extension39Bypass Actuator210Hose40Lip Seal215Washer, Plastic41Bypass Arm216RTN, Kit42Retaining Ring216RTN, Kit43PinHex Lock Nut, 5/16-24 UNJF (Nylon Insert)Masher44Screw, 1/4 20 X. 75 LongSpring, Extension5114T Bevel GearSpring, Extension5114T Bevel GearSpring, Extension5353T Spur GearScrew, 714 20 X. 75 Long54Motor ShaftSpring, Extension55Brake ShaftSpring, Extension56Arake ShaftSpring, Extension57Brake ShaftSpring, Extension58Seal, Lip 17 X 40 X 7Spacer, RTN59Bearing-Ball 20 X 47 X 14 (6204)56Bearing-Ball 20 X 47 X 14 (6204)56Bearing-Ball 20 X 47 X 12 (6205)56Seal57Retaining Ring58Retaining Ring59Retaining Ring50Retaining Ring51Brake Arm Service Assy52Brake Arm Service Assy53Brake Arm Service Assy54Meta Stare, Tid55Brake Arm Service Assy56Bearing-Ball 20 X 47 X 12 (6205)	30		1	
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54Motor ShaftSpacer, RTN55Brake ShaftArm, CW RTN, Inner56Axle ShaftArm, CW RTN, Inner58Seal, Lip 17 X 40 X 760Seal Plug - Side62Retaining Ring - Axle63Retaining Ring64Bearing-Ball 20 X 47 X 14 (6204)65Bearing-Ball 20 X 47 X 12 (6205)66Seal67Retaining Ring68Retaining Ring-Axle70LH, Brake Arm Service Assy Brake Arm Clevis Pin Bushing 0.255 X 0.381 X 0.330 Hex Washer Head Screw, 1/4-20 X 7/8	52		1	
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58       Seal, Lip 17 X 40 X 7         60       Seal Plug - Side         62       Retaining Ring - Axle         63       Retaining Ring         64       Bearing-Ball 20 X 47 X 14 (6204)         65       Bearing-Ball 20 X 47 X 12 (6205)         66       Seal         67       Retaining Ring         68       Retaining Ring-Axle         70       LH, Brake Arm Service Assy Brake Arm Clevis Pin Bushing 0.255 X 0.381 X 0.330 Hex Washer Head Screw, 1/4-20 X 7/8			1	Arm, CW RIN, Inner
<ul> <li>Seal Plug - Side</li> <li>Retaining Ring - Axle</li> <li>Retaining Ring</li> <li>Retaining Ring</li> <li>Bearing-Ball 20 X 47 X 14 (6204)</li> <li>Bearing-Ball 20 X 47 X 12 (6205)</li> <li>Seal</li> <li>Retaining Ring</li> <li>Retaining Ring-Axle</li> <li>Retaining Ring-Axle</li> <li>LH, Brake Arm Service Assy Brake Arm Clevis Pin Bushing 0.255 X 0.381 X 0.330 Hex Washer Head Screw, 1/4-20 X 7/8</li> </ul>			1	
<ul> <li>Retaining Ring - Axle</li> <li>Retaining Ring</li> <li>Retaining Ring</li> <li>Bearing-Ball 20 X 47 X 14 (6204)</li> <li>Bearing-Ball 20 X 47 X 12 (6205)</li> <li>Seal</li> <li>Retaining Ring</li> <li>Retaining Ring-Axle</li> <li>Retaining Ring-Axle</li> <li>LH, Brake Arm Service Assy Brake Arm Clevis Pin Bushing 0.255 X 0.381 X 0.330 Hex Washer Head Screw, 1/4-20 X 7/8</li> </ul>			1	
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64       Bearing-Ball 20 X 47 X 14 (6204)         65       Bearing-Ball 20 X 47 X 12 (6205)         66       Seal         67       Retaining Ring-Axle         70       LH, Brake Arm Service Assy         Brake Arm       Clevis Pin         Bushing 0.255 X 0.381 X 0.330         Hex Washer Head Screw, 1/4-20 X 7/8				
<ul> <li>Bearing-Ball 20 X 47 X 12 (6205)</li> <li>Seal</li> <li>Retaining Ring</li> <li>Retaining Ring-Axle</li> <li>Retaining Ring-Axle</li> <li>LH, Brake Arm Service Assy Brake Arm Clevis Pin</li> <li>Bushing 0.255 X 0.381 X 0.330 Hex Washer Head Screw, 1/4-20 X 7/8</li> </ul>			1	
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67 Retaining Ring 68 Retaining Ring-Axle 70 LH, Brake Arm Service Assy Brake Arm Clevis Pin Bushing 0.255 X 0.381 X 0.330 Hex Washer Head Screw, 1/4-20 X 7/8	66		1	
68 Retaining Ring-Axle 70 LH, Brake Arm Service Assy Brake Arm Clevis Pin Bushing 0.255 X 0.381 X 0.330 Hex Washer Head Screw, 1/4-20 X 7/8	67		1	
70 LH, Brake Arm Service Assy Brake Arm Clevis Pin Bushing 0.255 X 0.381 X 0.330 Hex Washer Head Screw, 1/4-20 X 7/8	68			
Brake Arm Clevis Pin Bushing 0.255 X 0.381 X 0.330 Hex Washer Head Screw, 1/4-20 X 7/8	70		1	
Bushing 0.255 X 0.381 X 0.330 Hex Washer Head Screw, 1/4-20 X 7/8			1	
Hex Washer Head Screw, 1/4-20 X 7/8				
			1	
73 Brake Disc				
	73	Brake Disc	1	
			1	

### **GLOSSARY OF TERMS**

**Axial Piston:** Type of design for hydraulic motors and pumps in which the pistons are arranged parallel with the spindle (input or output shaft).

Bantam Duty: A descriptive term relating to the product capacity (meaning: light duty).

**Bypass Valve:** A valve whose primary function is to open a path for the fluid to bypass the motor or pump. Also referred to occasionally as the freewheel valve or dump valve.

**Case Drain Line (Return Line):** A line returning fluid from the component housing to the reservoir.

*Cavitation:* A concentrated gaseous condition within the fluid causing the rapid implosion of a gaseous bubble.

*Center Section:* A device which acts as the valve body and manifold of the transmission.

Charge Pump: A device which supplies replenishing fluid to the fluid power system (closed loop).

*Charge Pressure:* The pressure at which replenishing fluid is forced into a fluid power system.

*Charge Relief Valve:* A pressure control valve whose primary function is to limit pressure in the charge circuit.

Check Valve: A valve whose primary function is to restrict flow in one direction.

*Closed Loop:* A sealed and uninterrupted circulating path for fluid flow from the pump to the motor and back.

Decay Rate: The ratio of pressure decay over time.

End Cap: See "Center Section"

*Entrained Air:* A mechanical mixture of air bubbles having a tendency to separate from the liquid phase.

*Gerotor:* A positive displacement pump frequently used as a charge pump.

*Hydraulic Motor:* A device which converts hydraulic fluid power into mechanical force and motion by transfer of flow under pressure.

*Hydraulic Pump:* A device which converts mechanical force and motion into hydraulic fluid power by producing flow.

Hydrostatic Pump: See "Hydraulic Pump"

*Hydrostatic Transaxle:* A multi-component assembly including a gear case and a hydrostatic transmission.

*Hydrostatic Transmission:* The combination of a hydraulic pump and motor in one housing to form a device for the control and transference of power.

*Inlet Line:* A supply line to the pump.

*Integrated Hydrostatic Transaxle (IHT):* The combination of a hydrostatic transmission and gear case in one housing to form a complete transaxle.

Manifold: A conductor which provides multiple connection ports.

*Neutral:* Typically described as a condition in which fluid flow and system pressure is below that which is required to turn the output shaft of the motor.

Pressure Decay: A falling pressure.

*Priming:* The filling of the charge circuit and closed loop of the fluid power system during start up, frequently achieved by pressurizing the fluid in the inlet line.

*Purging:* The act of replacing air with fluid in a fluid power system by forcing fluid into all of the components and allowing the air a path of escape.

*Rated Flow:* The maximum flow that the power supply system is capable of maintaining at a specific operating pressure.

*Scoring:* Scratches in the direction of motion of mechanical parts caused by abrasive contaminants.

*Swash Plate:* A mechanical device used to control the displacement of the pump pistons in a fluid power system.

*System Charge Check Valve:* A valve controlling the replenishing flow of fluid from a charge circuit to the closed loop in a fluid power system.

*System Pressure:* The pressure which overcomes the total resistance in a system, including all losses.

Valve: A device which controls fluid flow direction, pressure, or flow rate.

Variable Displacement Pump: A pump in which the displacement per cycle can be varied.

Volumetric Displacement: The volume for one revolution.





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