Gillison's Variety Fabrication, Inc.

Center Mount Hedger Owners Manual

Manual Part Number:
GH 12910

Model Numbers:
GVF 0900-12, 1018-10, 1018-12, 1019-10, 1019-12, 1019-15

3033 Benzie Hwy. Benzonia, MI 49616 231-882-5921
Fax 231-882-5637 800-392-6059
email: info@gillisons.com
online: www.gillisons.com

Table of Contents

INTRODUCTION

The information in this publication describes the safety requirements, operation, maintenance and servicing of the GVF/Gillison's Center Mount Hedger. Every effort has been made to provide correct and concise information to you, the operator, as available at the date of publication. Your GVF/Gillison's dealer is available should items in this book or details of your machine not be understood.

This book is supplied with each machine to familiarize the operator with proper instructions needed for operation and maintenance. Studying and adhering to these instructions will insure optimum machine performance and longevity. A machine that is maintained properly and operated in the intended manner will provide greater dividends than one that is neglected and/or operated in a manner other than as intended. Design and servicing of this machine has been kept as simple as possible to permit maintenance operations to be carried out with tools normally available.

This book should be thoroughly read and understood prior to operation of this machine. Inexperienced operators should study contents of this publication and receive instruction from an experienced operator when possible. Your GVF/Gillison's dealer can assist in areas concerning machine operation and provide details concerning safe operation. It is suggested that this booklet be kept readily accessible, preferably with the machine, for future reference if questions or concerns arise. If the original book should become lost or damaged, consult your GVF/Gillison's dealer in regards to acquiring a replacement.

Customers are strongly advised to use an authorized GVF/Gillison's dealer in connection with any service problems and adjustments that may occur.

CAUTION: READ THIS BOOK IN ITS ENTIRETY PRIOR TO OPERATING THE MACHINE. Use only parts from your GVF/Gillison's dealer for repairs and/or replacement.

SAFETY

INTRO TO SAFETY

The safety of the operator is one of the main concerns in designing a new piece of equipment. Designers build in as many safety features as possible. However, every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. You, the operator, can avoid many accidents by observing the following precautions. To avoid personal injury, study the following precautions and insist those working with you, or for your own self, to follow these precautions.

In order to provide a better view, certain photographs or illustrations in this manual may show an assembly with a safety shield removed. However, the equipment should never be operated in this condition. Keep all shields in place. If shield removal becomes necessary for repairs, replace shield prior to further operation.

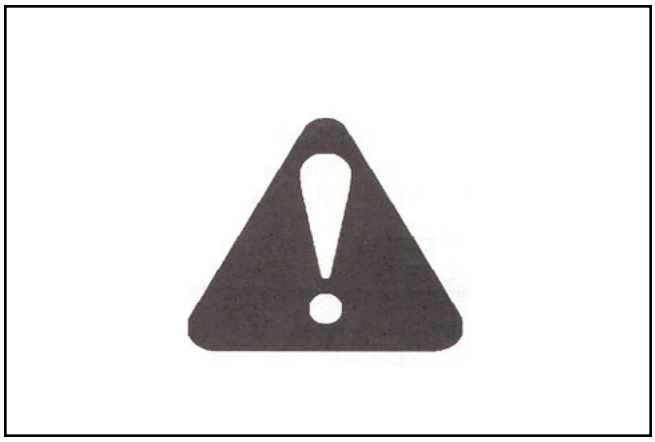


FIG. 1

SAFETY ALERT SYMBOL

FIG. 1: This is the safety alert symbol. It means **ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!** Look for it, both in this manual and on safety decals on the equipment. It will direct your attention to information that involves your safety and the safety of others.

FIG. 2

SIGNAL WORDS

FIG. 2: The words **DANGER, WARNING,** or **CAUTION** are used with the safety alert symbol. Learn to recognize these safety alerts, and follow the recommended precautions and safe practices.

DANGER indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.

WARNING indicates an imminently hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION indicates an imminently hazardous situation that, if not avoided, may result in minor or moderate injury.

Replace any DANGER, WARNING, CAUTION or instructional decal that is not readable or is missing. The locations and part numbers of these decals are identified later in this section of the manual.

GENERAL SAFETY RULES

FIG. 3: Always keep this manual with the machine. This manual must be made available to the operator of the machine at all times. Special care must be taken to keep this manual safe from the weather and in readable condition.

FIG. 3

Read this manual carefully and learn how to use the machine correctly.

Do not let anyone operate this machine without thorough instruction.

Beware of bystanders, particularly children! Always look around to make sure that everyone is clear before starting the engine or moving the machine. This is particularly important with higher noise levels as you may not hear people shouting.

FIG. 4: No passengers allowed. Do not carry passengers anywhere on the machine.

FIG. 4

Dismount and park machine in the correct manner. When dismounting and/or leaving the operator's platform FOR ANY REASON always:

1. **Shift to Neutral.**
2. **Turn PTO OFF.**
3. **Come to a complete stop.**
4. **Park on level ground.**
5. **Activate parking brake.**
6. **Shut off engine and remove key.**

WARNING: An operator should not use alcohol or drugs which can affect their alertness or coordination. An operator on prescription or 'over the counter' drugs needs medical advice on whether or not he/she can properly operate equipment.

FIG. 5: Wear protective clothing. Do not wear loose clothing, as this may catch on moving parts of the machine causing injury.

FIG. 5

Always wear protective clothing and appropriate safety equipment.

It is recommended that suitable protective hearing and safety glasses be worn.

Do not attempt to service machine, clear obstructions or unplug blockages with the engine running. Always shut off PTO and engine first.

Keep all shields and guards in place.

FIG. 6: Additional equipment: A fire extinguisher and first aid kit should be carried with the machine or be kept readily available at all times.

Have emergency telephone numbers for immediate access.

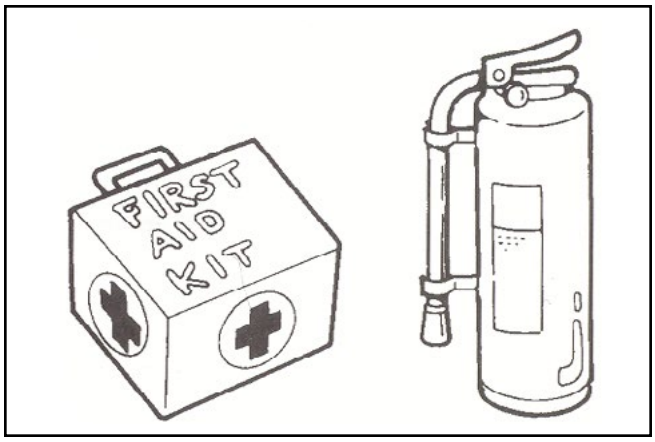


FIG. 6

GENERAL SAFETY WHILE OPERATING

CAUTION: READ THIS BOOK IN ITS ENTIRETY PRIOR TO OPERATING MACHINE.

Keep the machine properly maintained. Do not operate a machine when it is broken or has missing parts. Make sure that the maintenance procedures in this operator's book are completed before using the machine.

Check all controls regularly and adjust where necessary.

Periodically check all nuts, bolts and lifting pins for tightness.

Clear the area. Ensure that all bystanders, particularly children, are at a safe distance before starting the engine.

DANGER FIG. 7: Be aware of electrocution hazards. To prevent injury or death from electrocution:

Stay away from overhead power lines with hedger bar in the vertical position. This machine is not grounded. Electrocution can occur without direct contact.

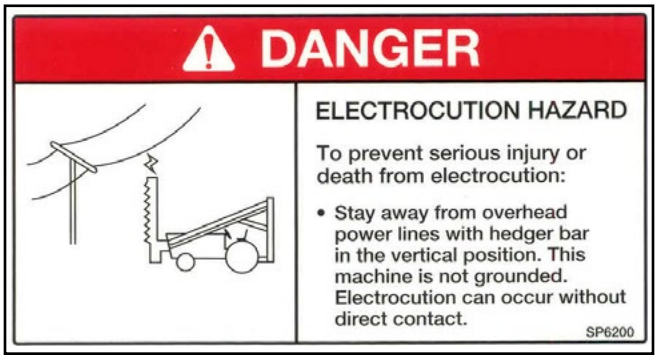


FIG. 7

Be observant of the operating area and terrain. Watch for holes, rocks or other hidden hazards. ALWAYS inspect area prior to operation.

DO NOT operate near edge of banks. Setback distance from bank should equal or exceed the overall height of the bank.

DO NOT operate on steep slopes as overturning may result.

If necessary to cross a steep slope, avoid turning uphill. Slow down and make a wide turn. Travel directly up or down the slope, never cross it. Keep the heavy end of the machine on the uphill side.

SAFETY WHILE SERVICING THE MACHINE

Stop the machine. DO NOT service the machine while the engine is running or hot, or if the machine is in motion.

DANGER FIG. 8: To prevent serious injury or death from moving parts;

KEEP AWAY, moving parts can dismember.

Disconnect and lockout power source before adjusting and servicing.

Do not operate without guards and shields in place.

NOTE: When making major repairs or complicated adjustments, it is recommended that you consult your Gillison Dealer and have the work carried out by trained personnel.

FIG. 8

The following precautions should be observed. These have been arranged by machine area or component.

Hydraulic System

WARNING FIG. 9: High pressure fluid hazard. To prevent serious injury or death:

Relieve pressure on system before repairing, adjusting or disconnecting.

Wear proper hand and eye protection when searching for leaks. Use wood or cardboard instead of hands.

Keep all components in good repair.

FIG. 9

Ensure that all hydraulic connections are tight.

Relieve all pressures before disconnecting hoses or lines. Escaping oil under pressure can cause serious injury.

All fluids should be handled with care. If you are injured by or swallow any fluid, seek medical attention immediately and show the label on the product.

Fluid escaping from a very small hole can be almost invisible and can penetrate the skin causing serious injury. Keep hands and body away from pin holes and nozzles which eject fluids under high pressure. When checking for leaks always use a piece of cardboard or wood. Never use your hands to find a pressure leak.

If ANY fluid is injected into the skin, it must be attended to by a doctor immediately.

Replacement Parts

FIG. 10: Where replacement parts are necessary for periodic maintenance and servicing, replacement parts from GVF/Gillison's must be used to restore your equipment to original specifications.

GVF/Gillison's will not claim responsibility for installation of unapproved parts and/or accessories and damages as a result of their usage.

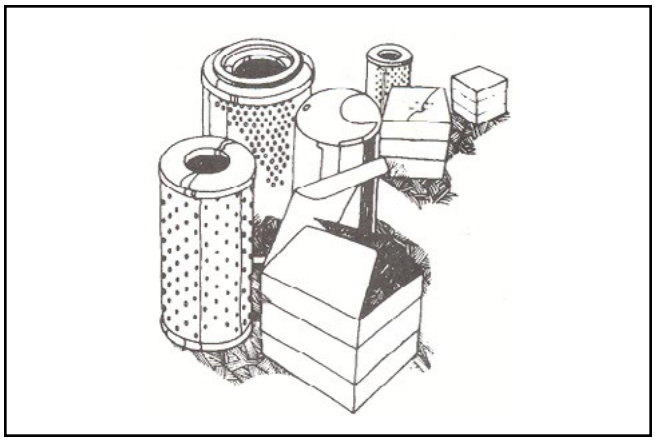


FIG. 10

INSTRUCTION DECALS

FIG. 11: Location of all instruction decals are provided as a reference. Corresponding numbers show where decals belong on the machine. Replace any decals that are damaged, missing or are not readable. Consult your dealer.

Each decal in the figure to the right has its part number labeled below the decal.

1. SP 6210
2. SP 6200
3. SP 6212
4. SP 6201

FIG. 11

SERIAL NUMBER

Location of serial number is on the nameplate and is provided as a reference.

See **FIG. 12**

FIG. 12

SAFETY WHILE OPERATING

Review ENTIRE operator's manual before operating this machine. See FIG. 3

Fasten seat belt securely before starting.

Keep both hands on controls at all times when operating.

Use low range for hillside operation.

Block elevated components before servicing equipment.

Do not allow riders.

Do not leave machine with engine running.

Heed These Safety Rules

As with all farm equipment there are dangers in

operation and caution should be exercised at all times.

Do not operate this machine around spectators or with riders.

Inspect the hedger-topper each day.

Even though we have built in safety devices for hydraulic functions, do not trust them, they could fail.

Perform scheduled maintenance to ensure optimum performance.

Wear proper clothing.

a. No baggy clothing

b. Use eye protection

c. Use hard hat

Keep body, feet and hands inside the operators' platform when the topper-hedger is running.

When dismounting the tractor lower the overhead assembly, turn off the sickle bar and turn off the tractor engine.

Only work around sickle bar with tractor engine turned off. The knives are very sharp and can cause injury.

Keep all covers and guards in place.

Do not operate under the influence of any kind of drugs or alcohol that impair judgment or performance.

Always watch for overhead obstructions when operating or transporting topper-hedger.

Use extreme caution in uneven terrain to avoid personal injury.

MODIFICATIONS

Modification or alteration of the topper-hedger shall be made only with prior written consent from GVF/ Gillison's Variety Fabrication Inc.

Altering safety devices shall be prohibited.

RECORD RETENTION

The owner shall retain the following records for at least 3 years:

A. Purchase Information

B. Records of persons trained upon delivery of the GVF/Gillison's Center Mount Hedger.

C. Written records of frequent inspections, maintenance performed and parts replaced

OWNERSHIP RECORDS

When a change of ownership of a GVF/Gillison's piece of equipment occurs, it is the responsibility of the seller to notify GVF/Gillison's Variety Fabrication Inc. with the following information within 60 days of the sale:

A. Serial number of machine

B. Name & address of new owner

MOUNTING

INSTRUCTIONS FOR MOUNTING

Step One, refer to FIG. 13:

1. Remove draw bar on tractor and top link.

Step Two, refer to FIG. 14:

1. Slide forks into fork pockets on hedger.

Step Three, refer to FIG. 15:

1. Raise boom with a crane or alternative lift.
2. Support with angle iron on cylinder.

FIG. 13

FIG. 14

FIG. 15

Step Four, refer to FIG. 16 A, B, C, D & E:

1. Slide framework under tractor.

2. Attach 3 point arms to hedger support pins.

4. Raise framework to desired height. Connect turn buckles to top link mounting pin. This maintains the desired height. Connect front mounting bracket and tighten.

NOTE: Check operator clearance with boom while sitting in seat.

NOTE: Be aware of side-shift flex joint when boom is lowered. It could hit the hood of the tractor if side-shifted in.

FIG. 16 C

Step Six, refer to FIG 16 E. :

1. Install pump pto shaft.

FIG. 16 A

FIG. 16 D

FIG. 16 B

FIG. 16 E

Step Seven, refer to FIG. 17 A, B & C:

1. Mount control box and supply 12V power and ground. Use provided inline fuse if using battery power.

2. Install cutting head and connect hoses.

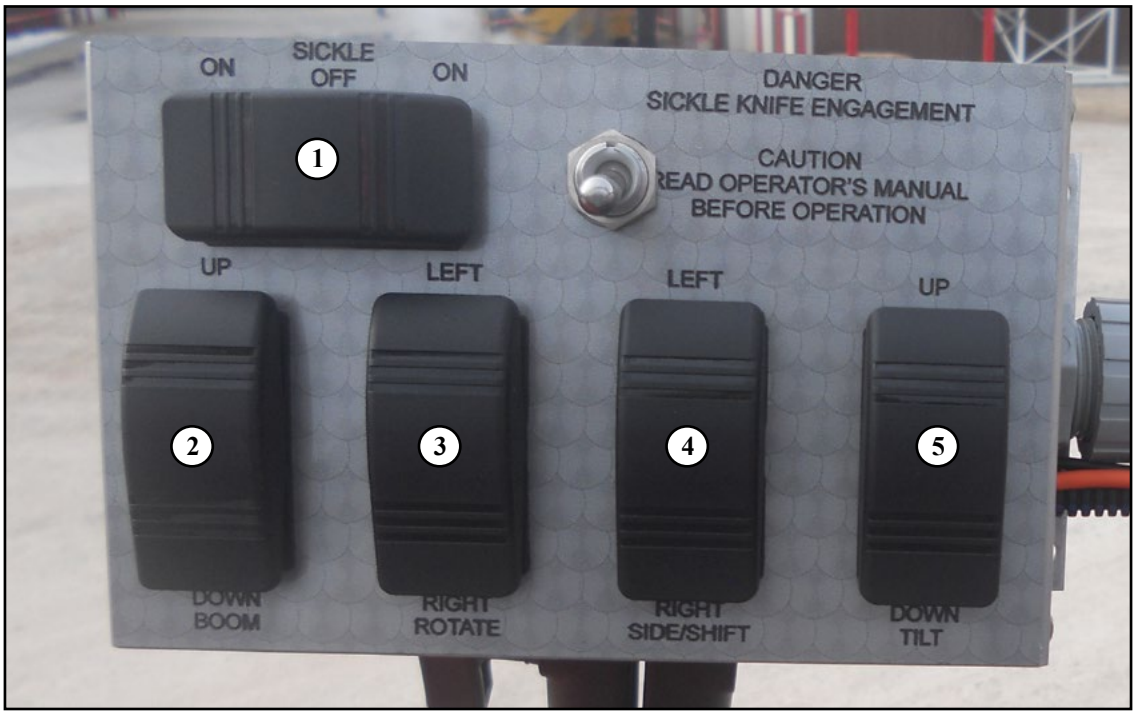
FIG. 17 A

FIG. 17 B

FIG. 17 C

CONTROLS

CONTROL BOX DIAGRAM



CAUTION! Read operator's manual before operation.

DANGER! This control panel engages the sickle knives.

1. Sickle On/Off switch
2. Raise Boom, Lower Boom
3. Rotate head Left, Rotate head Right
4. Side/Shift head Left, Side/Shift head Right
5. Tilt head Up, Tilt head Down

OPERATION (SEE CONTROLS SECTION FIRST)

PRE START UP

With machine shut off do a walk around inspection **and** check the following:

Check hydraulic oil level.

Check boom and lifting components for fatigue cracks.

Check that all cylinder pins and cotter pins are in place.

Inspect cutting head.

Inspect knives for wear.

Open access covers.

Check v-roller adjustment. *NOTE: You should be able to turn v-rollers with your hand, check all and adjust as necessary.*

OPERATING THE GVF CENTER MOUNT HEDGER

Learn about all controls, have knowledge of the machine and its workings, and read this manual before operating the hedger machine.

1. Make sure no obstructions are in the way.

2. Turn PTO on and make sure it is in 540 mode.

3. See page 11 first to become familiar with the Control Box Diagram.

4. Sickle cutting will run in both directions in the event the head stalls on a piece of material. Reverse the cutting direction immediately, sickle should cut material.

5. Cutting head should only be run between 200 - 250 RPMs on the cam shaft. To achieve this speed do the following:

1. Use tachometer on end of cam shaft and adjust flow control until desired cam shaft speed is acquired, then lock the flow control jam nut.

2. Adjust transmission gears to achieve desired speed.

Operating cutting head too fast can damage drive components and decrease cutting performance. Material being cut must be allowed to get deep enough between the knives. If only the knife tips are doing the cutting, due to excessive operating speed, cutting performance will decrease.

LUBRICATION & MAINTENANCE

MAINTENANCE CHART

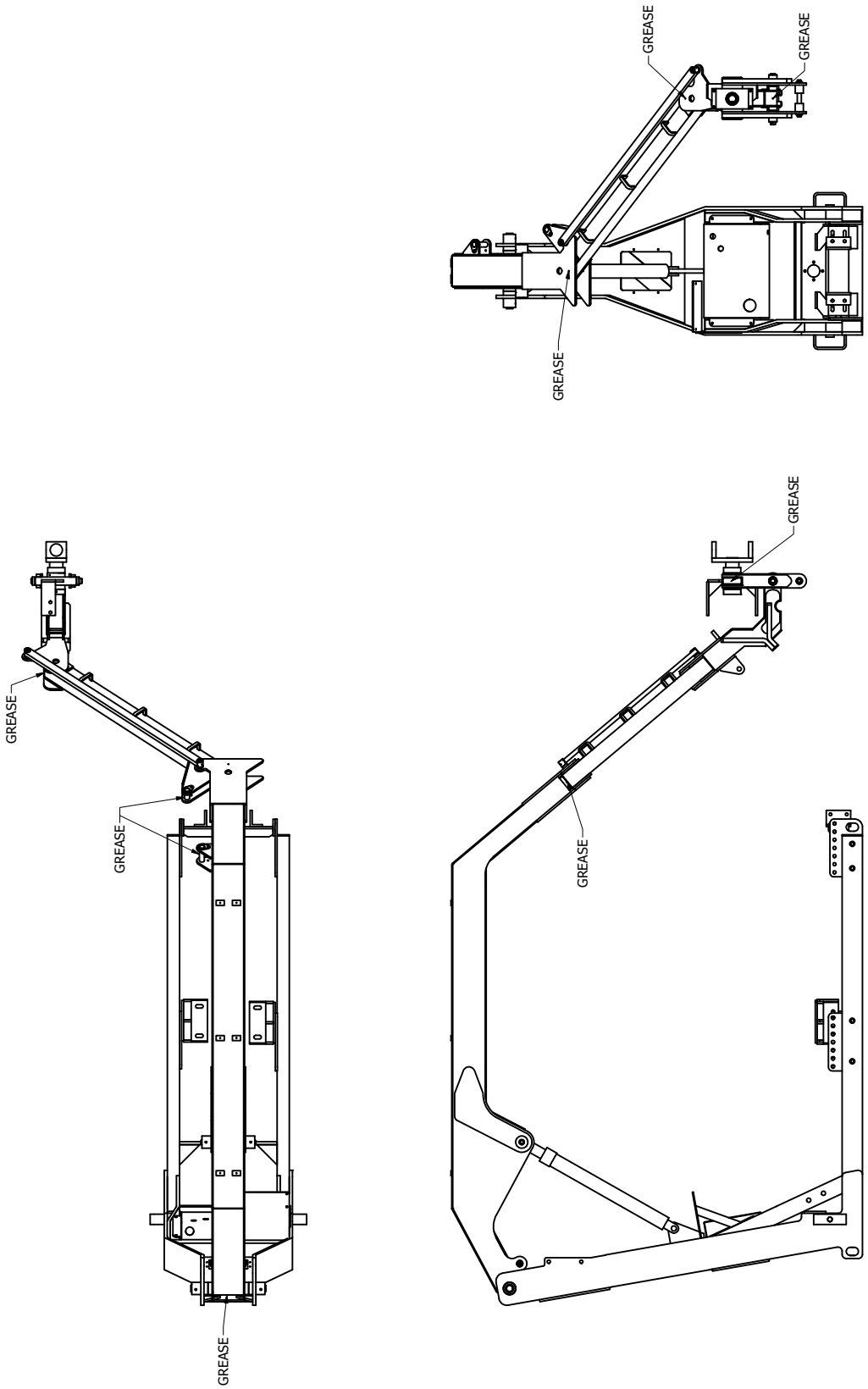
	DAILY	EVERY 2 HOURS	EVERY 4 HOURS	EVERY 40 HOURS	EVERY 100 HOURS	EVERY 200 HOURS	EVERY 400 HOURS	INSTRUCTIONAL PAGE #
HYDRAULIC SYSTEM								
Hydraulic Oil	✓						change	Pg.16
Hydraulic Oil Filter						Change or annually change		Pg.16
Suction Strainer							Clean or replace	Pg.16
CUTTING HEAD								
V-Roller Adjustment	✓							Pg.17
Grease Cam Followers			✓					Pg. 18
Grease Cam Wheel Groove			✓					Pg. 18
Grease Flange Bearings					✓			Pg. 18
Oil Sickle Bar		✓						Pg. 18
FRAME								
Grease Points (See grease point chart on pg. 15)				✓				Pg. 15
ROTATE GEAR BOX								
Oil Level						✓	change	Pg.14 **FIG. 17 D**
PUMP DRIVE GEAR BOX								
Pump Drive Gearbox	✓						change	Pg.14 **FIG. 17 E**

FIG 17 D Check rotate gearbox oil level every 200 hours, change every 400 hours of operation. Use 10W-90 Gear Lube

FIG 17 E Check pump drive gearbox gear-lube daily and change every 400 hours.

GREASE POINT CHART

Grease each grease point every 40 hours of operation.



HYDRAULIC SYSTEM

• Check hydraulic oil level daily FIG 18.

• Change hydraulic oil filter every 200 hours. See A.

• Clean suction strainer every 400 hours. See B.

• Be sure to use Citgo AW 46 hydraulic oil. FIG 19.

ELECTRICAL

1- Incline 20 amp fuse to protect hedger wiring.

INSTRUCTIONS FOR PRESSURE WASHING

When pressure washing, protect and **DO NOT** direct the jet on the following components:

Instrument panel, Electrical harness and connections, and Safety decals.

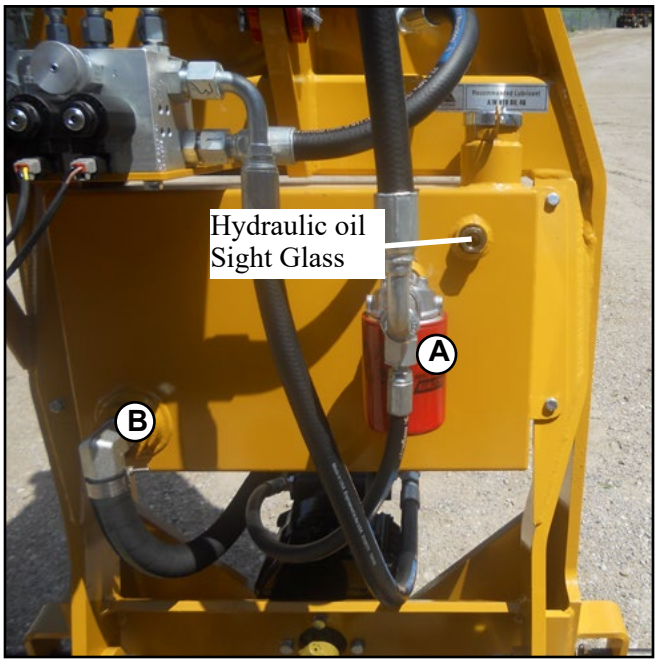
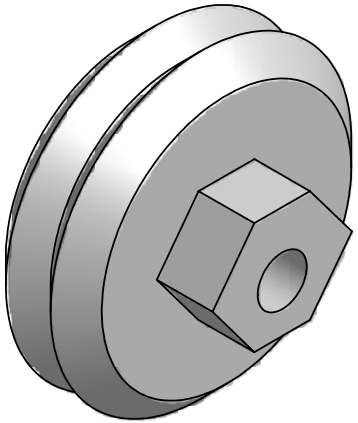
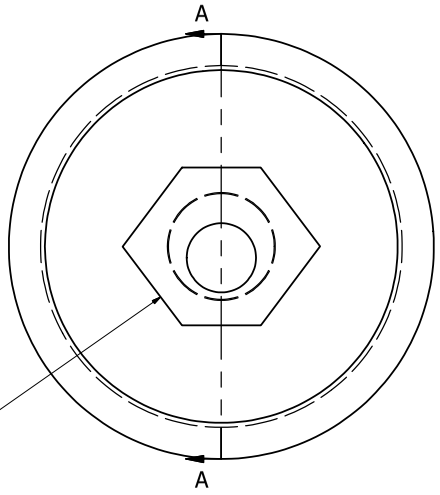


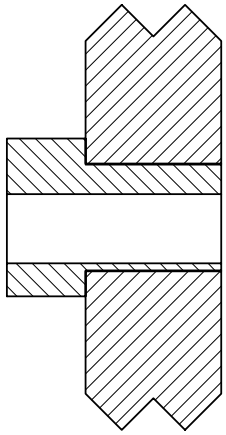
FIG. 18

FIG. 19

V-ROLLER ADJUSTMENT







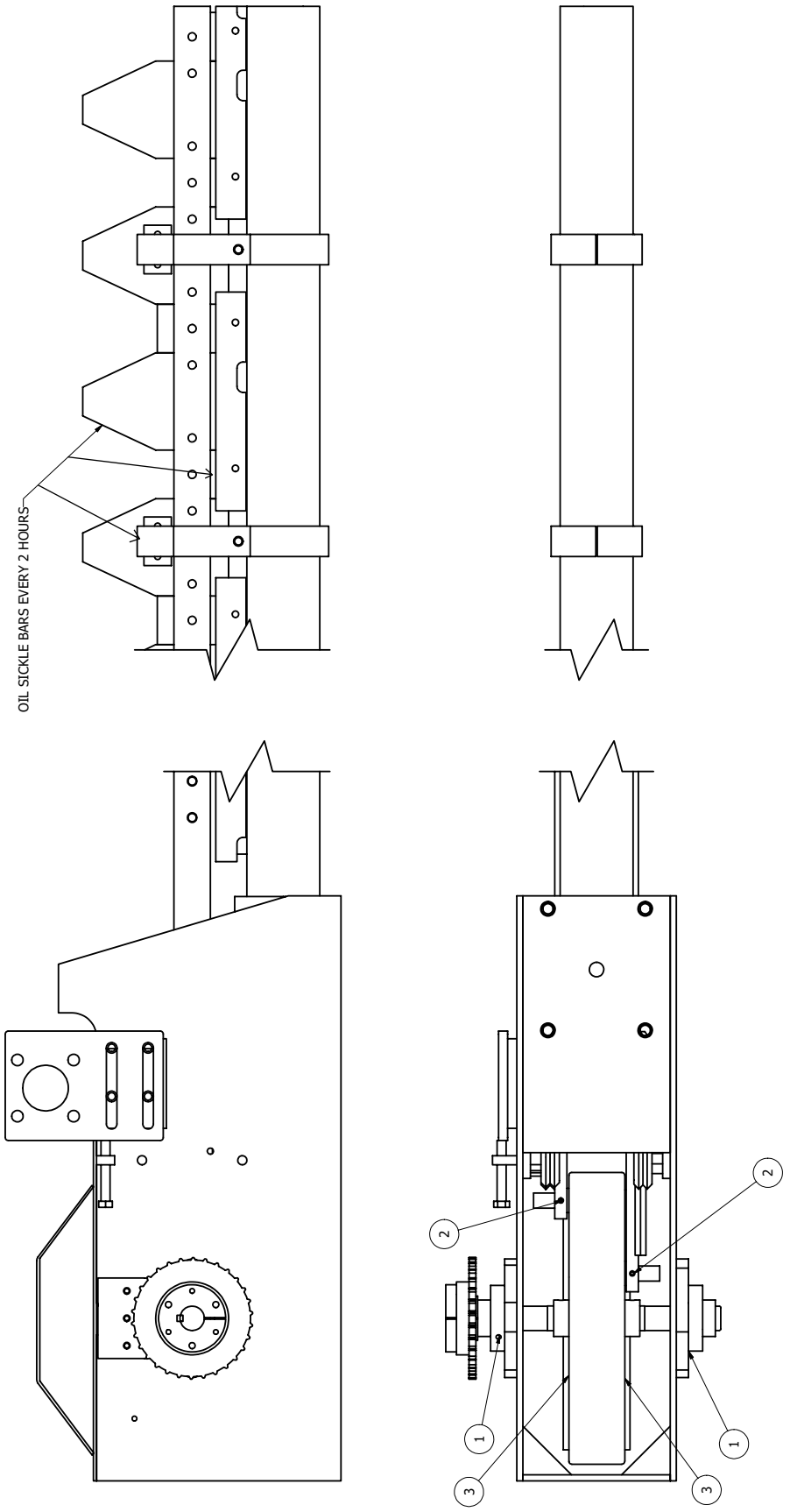
SECTION A-A
SCALE 2

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	GH11358	BUSHING, CAM
2	1	GH11357	WHEEL, W4 DUALVEE SHIELDED

V-ROLLER ADJUSTMENT

1. OPEN HINGED CUTTERHEAD ACCESS COVER
2. USE 7/8" WRENCH TO ROTATE CAM BUSHING AND A 5/16" ALLEN WRENCH TO HOLD SHCS
3. ROTATE CAM UNTIL YOU ARE UNABLE TO ROTATE V-ROLLER BY HAND
4. CHECK ALL 4 V-ROLLER ADJUSTMENTS
5. TIGHTEN SHCS

HEAD LUBRICATION



HEAD LUBRICATION		
Column 1	Column 2	Column 3
ITEM #	DESCRIPTION	FREQUENCY
1	FLANGE BEARING	100 HRS
2	CAM-FOLLOWERS	4 HRS
3	CAMWHEEL GROOVE	4 HRS

GH 12650 30 CC PUMP

GENERAL PUMP INFORMATION	
Pump Output	
PTO RPM	GPM
300	7.5
400	10
540	13.5
Pump Pressure - 2000 PSI	
Use gauge port on control valve to check pressure #4SAE port.	

GH 12650 30 CC PUMP CONTINUED

SAUER DANFOSS

Series 45 Frame K and L Open Circuit Axial Piston Pumps Service Manual

Adjustments

PC CONTROL

⚠ WARNING
Escaping hydraulic fluid under pressure can have sufficient force to penetrate your skin causing serious injury and/or infection. Relieve pressure in the system before removing hoses, fittings, gauges, or components.

Unintended movement of the machine or mechanism may cause injury to the technician or bystanders. To protect against unintended movement, secure the machine or disable / disconnect the mechanism while servicing.

! CAUTION
Contamination can damage internal components and void the manufacturer's warranty. Take precautions to ensure system cleanliness when removing and reinstalling system lines.

PC setting is indicated in the pump model code. Refer to the *Series 45 Open Circuit Axial Piston PumpsTechnical Information Manual,* BLN-10128, for more information.

Note: Before performing adjustments, read page 14, *Pressure measurement,* for recommendations.

1. Install a pressure gauge in port M2 to measure system pressure. Install a pressure gauge in case drain port L1 or L2 to measure case pressure. ⚠!

2. Start the prime mover and allow fluid to reach normal operating temperature. Operate a hydraulic function to its full extension, loading the pump at maximum pressure and zero flow.

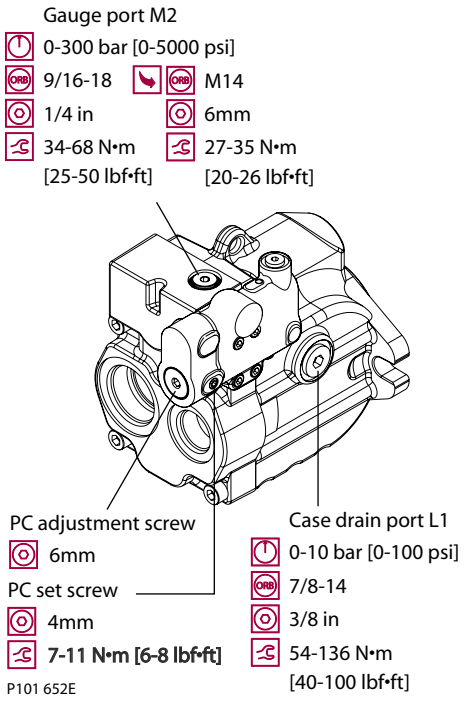
3. Loosen the PC set screw and turn the PC adjustment screw until the desired setting is indicated on the pressure gauge at port M2 . Clockwise rotation will increase pressure, counterclockwise rotation will decrease; approximate gain = 35 bar [507 psi] per turn.

Note: If the pressure does not increase, an external system relief valve may require adjustment. External system relief valve must be set above the PC setting for proper operation.

4. While holding the position of the PC adjustment screw, torque the PC set screw to 7-11 N•m [6-8 lbf•ft].

5. Stop the prime mover, remove the pressure gauges, and return the system to its normal operating configuration.

PC control adjustment



Adjustment screw, set screw, and gauge locations shown

SAUER DANFOSS

Series 45 Frame K and L Open Circuit Axial Piston Pumps Service Manual

Minor repair

SHAFT SEAL REPLACEMENT

A lip type shaft seal is used in the Series 45 open circuit variable pumps. This seal can be replaced without major disassembly of the unit. Replacement of the shaft seal requires removal of the pump from the machine.

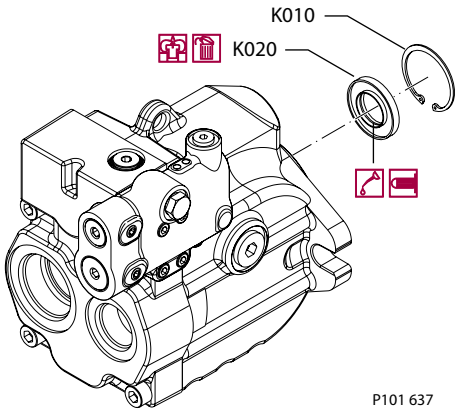
Removal

1. Using the appropriate snap-ring pliers, remove the retaining ring (K010) from the housing.

2. Remove the shaft seal (K020) from the bore in the pump housing and discard. Avoid damaging the pump housing or shaft.

   Puncture the face of the seal with a packing hook, or use a slide-hammer type puller to remove the seal.

Shaft seal and retaining ring



Installation

3. Inspect the pump housing and new seal for damage. Inspect the sealing area on the shaft for rust, wear, or contamination. Polish the sealing area on the shaft if necessary.

4. Lubricate the lip of the new shaft seal with clean hydraulic fluid. Place a protective sleeve over the shaft end to prevent damage to the seal during installation.

CAUTION
Premature bearing failure can result if the shaft seal contacts the shaft bearing. Press the seal into the housing only far enough to clear the retaining ring groove.

5. Keeping the seal perpindicular to the shaft, press the new seal into the housing just far enough to clear the retaining ring groove. Install seal with the cupped side toward the shaft bearing. Do not damage the seal during installation.

6. Using the appropriate snap ring pliers, install the seal retaining ring.

7. Remove the installation sleeve.

SAUER DANFOSS

Series 45 Frame K and L Open Circuit Axial Piston Pumps Service Manual

Minor repair

CONTROL

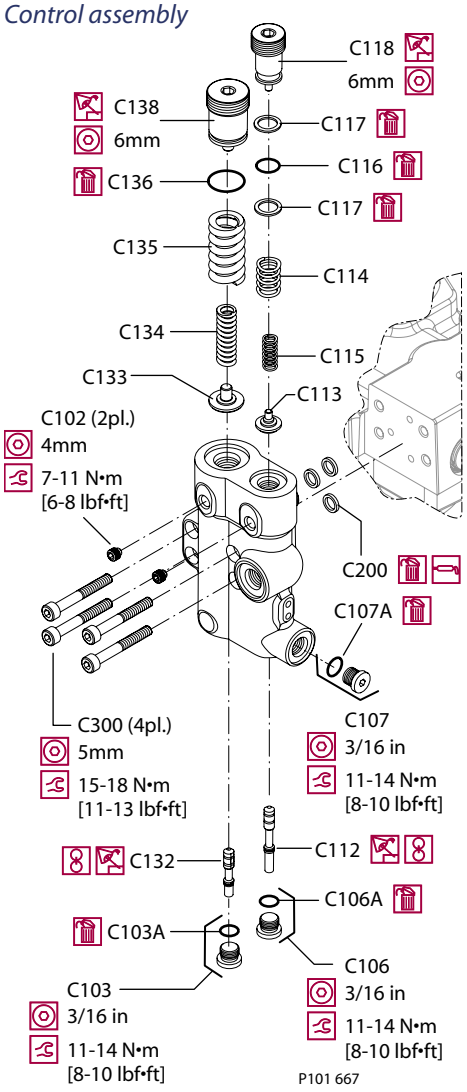
Disassembly

1. Remove the four screws (C300) holding the control housing onto the end cap.
2. Remove the control and discard the three interface O-rings (C200).
3. Remove the PC set screw (C102), PC adjustment screw (C138), O-ring (C136), springs (C135, C134), and seat (C133). Discard the O-ring.
4. Remove the plug (C103), O-ring (C103A), and PC spool (C132) from the control housing; discard the O-ring. Note orientation of the spool for reassembly.
5. Remove the plug (C107) and O-ring (C107A); discard the O-ring.

Note: For PC only controls, skip steps 6 and 7.

6. Remove the LS set screw (C102), LS adjustment screw (C118), O-ring (C116), back-up rings (C117), springs (C114, C115), and seat (C113); discard the O-ring.
7. Remove the plug (C106), O-ring (C106A), and LS spool (C112) from the control housing; discard the O-ring. Note orientation of the spool for reassembly.

Control assembly



LS control shown; parts C106 and C112 through C118 are not used on PC control

Inspection

8. Inspect the adjustment screws for wear at the tips and where they contact the springs; replace as necessary
9. Inspect the springs and spring guides for wear or damage; replace as necessary.
10. Carefully inspect the spools. Ensure the sealing lands are free of nicks and scratches. Check the ends that contact the spring guides for wear. Replace spools as necessary.
11. Inspect the control housing for damage. Check the spool bores for excessive wear.
12. Clean all parts and lubricate spools, springs, guides and new O-rings with clean hydraulic fluid.

SAUER DANFOSS

Series 45 Frame K and L Open Circuit Axial Piston Pumps
Service Manual
Minor repair

CONTROL (continued)

Reassembly

13. Install the PC spool, spherical end first, into the PC bore. The PC spool is the shorter of the two. Using a new O-ring, install the plug (C103). Torque to 11-14 N•m [8-10 lbf•ft].

14. Place the two PC springs onto the spring guide and install into the PC bore. Place a new O-ring onto the PC adjustment screw and thread it into the PC bore until flush, then make another full turn. Install and torque the set screw to 7-11 N•m [6-8 lbf•ft].

Note: For PC only controls, skip steps 15 and 16.

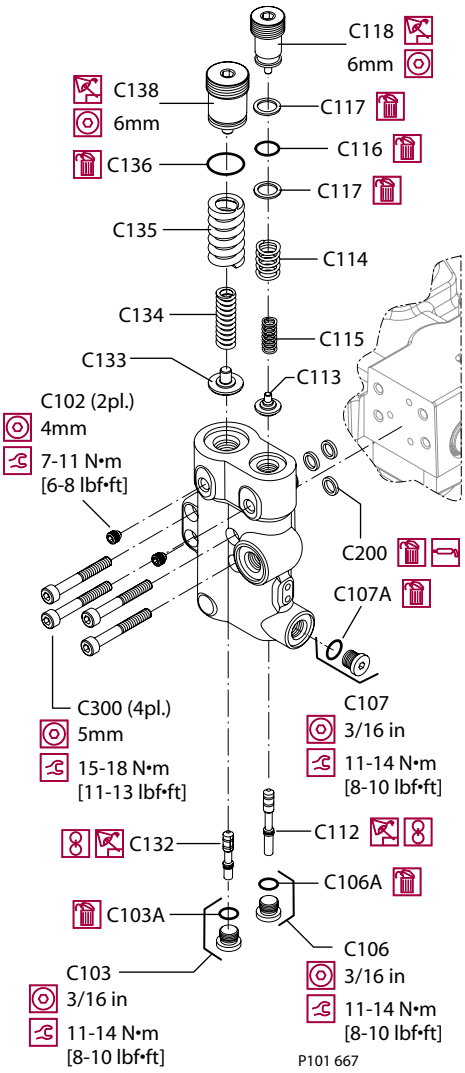
15. Install the LS spool, spherical end first, into the LS bore. The LS spool is the longer of the two. Using a new O-ring, install the plug (C106). Torque to 11-14 N•m [8-10 lbf•ft].

16. Place the two LS springs onto the spring guide and install into the LS bore. Place a new O-ring and back-up rings onto the LS adjustment screw and thread it into the LS bore until flush, then make another full turn. Install and torque the set screw to 7-11 N•m [6-8 lbf•ft].

17. Using a new O-ring, install the plug (C107). Torque to 11-14 N•m [8-10 lbf•ft].

18. Using petroleum jelly to retain them, install the three interface O-rings (C200) in the recesses on the control housing.

Control assembly



LS control shown; parts C106 and C112 through C118 are not used on PC control

19. Install the control assembly onto the endcap using the four screws (C300). Torque to 15-18 N•m [11-13 lbf•ft]. Torque screws in a criss-cross pattern and re-torque the first screw to ensure proper torque retention.

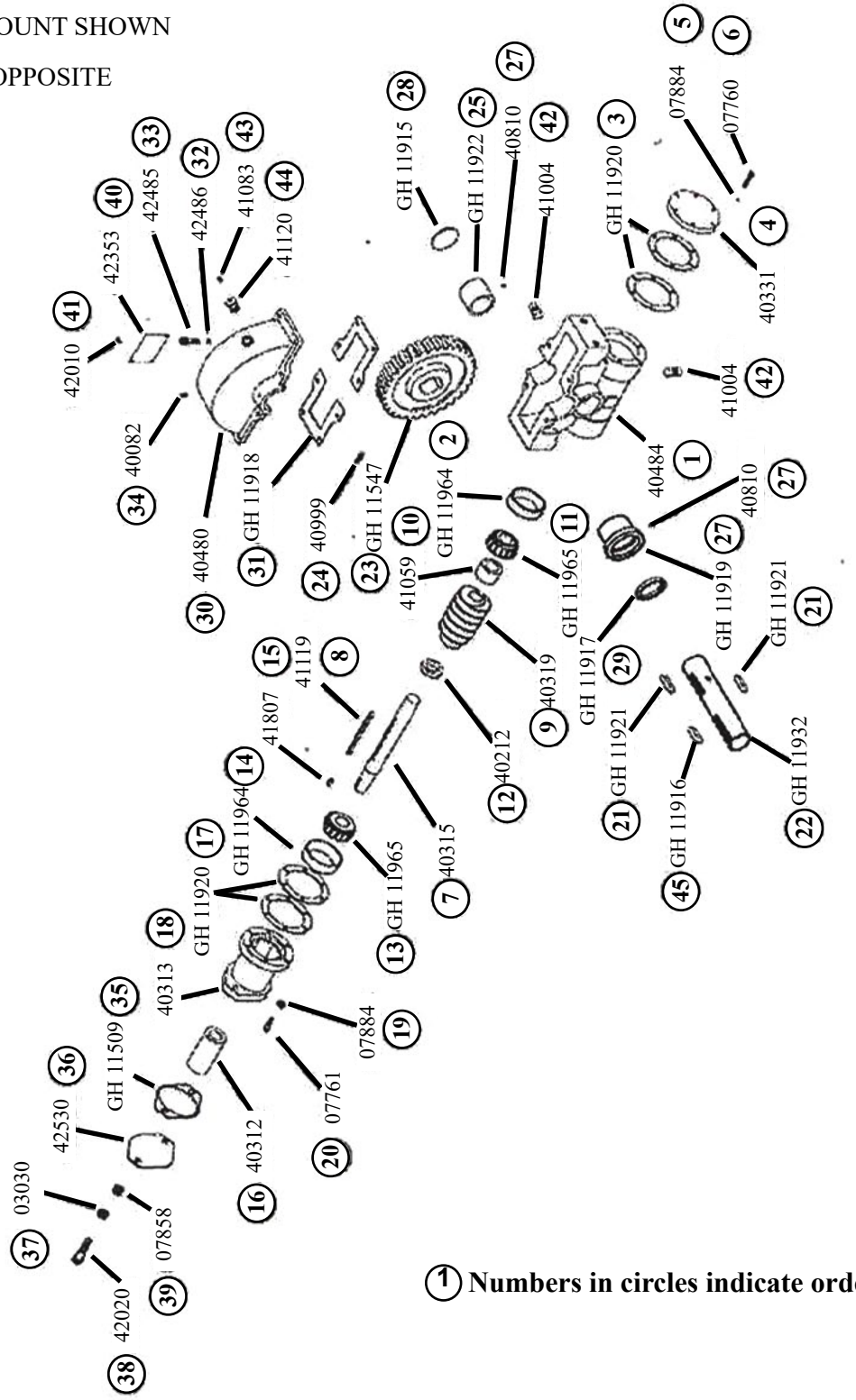
20. Check and adjust the control setting. See *Adjustments*, page 20.

PARTS SECTION

GEARBOX DIAGRAM

LEFT HAND MOUNT SHOWN

RIGHT HAND OPPOSITE

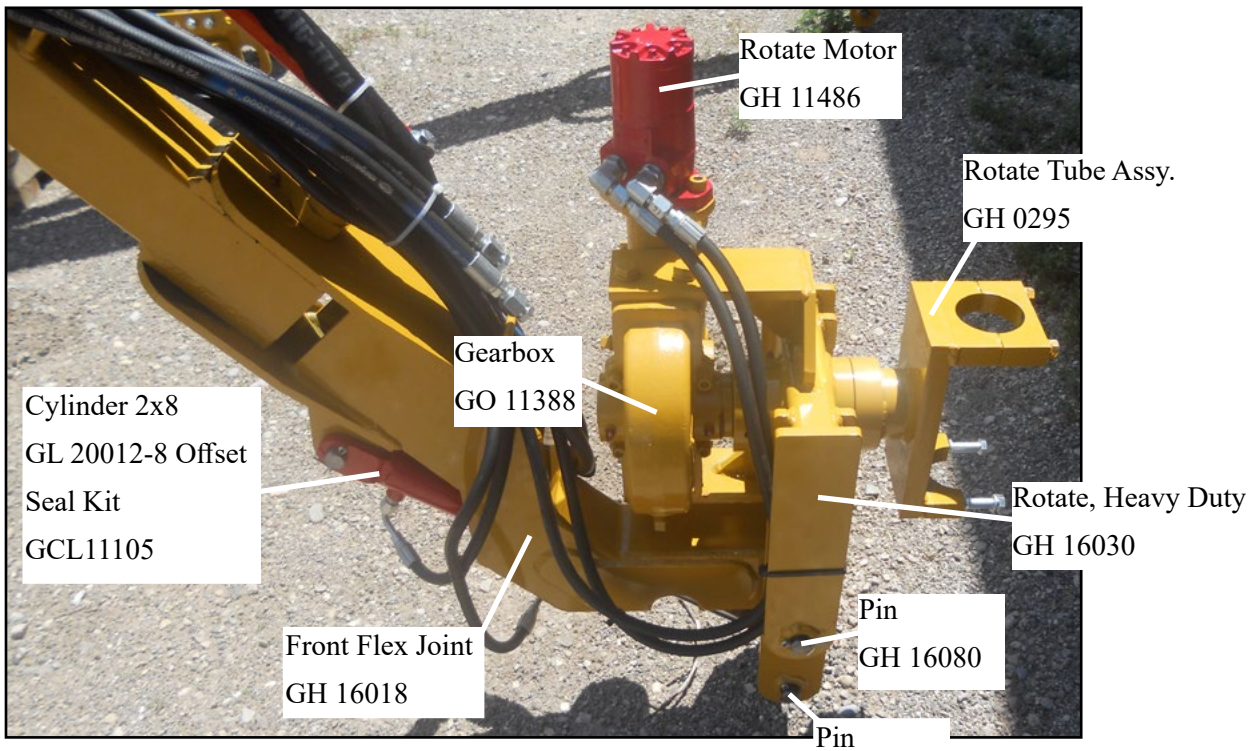


1 Numbers in circles indicate order of assembly

GEARBOX PART NUMBERS & DESCRIPTION

PART NUMBER	QTY.	DESCRIPTION
3030	2	Washer - Lock .500”
7760	6	Screw - Cap Hex Hd. .313”x1.000”
7761	6	Screw - Cap Hex Hd. .313”x1.250”
7858	2	Nut - .500”
7884	12	Washer - Lock .313”
40082	2	Grease Fitting - .125 npt
40212	1	Spacer - Worm
40312	1	Coupling - Hydraulic
40313	1	Adaptor - Motor
40315	1	Shaft - Worm
40319	1	Worm - 32:1 L.H.
40331	1	End - Cap
40480	1	Cover - Housing
40484	1	Housing
40999	1	Screw – Set Skt. .375”x1.000”
41004	1	Pipe Plug - .500”
41059	1	Spacer - Worm
41083	1	Relief Valve
41119	1	Key - Worm
41120	1	Pipe Reducer - .500” to .125”
41807	1	Key - Input
42010	4	Screw – Drive #10
42020	2	Screw – Cap Skt. .500”x2.000”
42353	1	Data Plate
42485	4	Screw – Cap Skt. .438”x1.000”
42486	4	Washer – Hi-collar Lock .438”
42530	1	Cover – Hyd. Adapter
GH 11509	1	Gasket - Flange
GH 11547	1	Gear – 32:1 L.H.
GH 11915	1	Freeze Plug
GH 11916	1	Key, 7/16 X 2 1/4 Rotate SS
GH 11917	1	Oil Seal
GH 11918	2	Gasket – Housing
GH 11919	1	Bushing - Housing w/ 40810 Pin *
GH 11920	4	Gasket – End Cap
GH 11921	3	Key - Gear
GH 11922	1	Bushing - Housing w/ 40810 Pin*
GH 11932	1	Shaft - Output
GH 11964	2	Bearing – Cup
GH 11965	2	Bearing – Cone

ROTATE FRAME ASSEMBLY



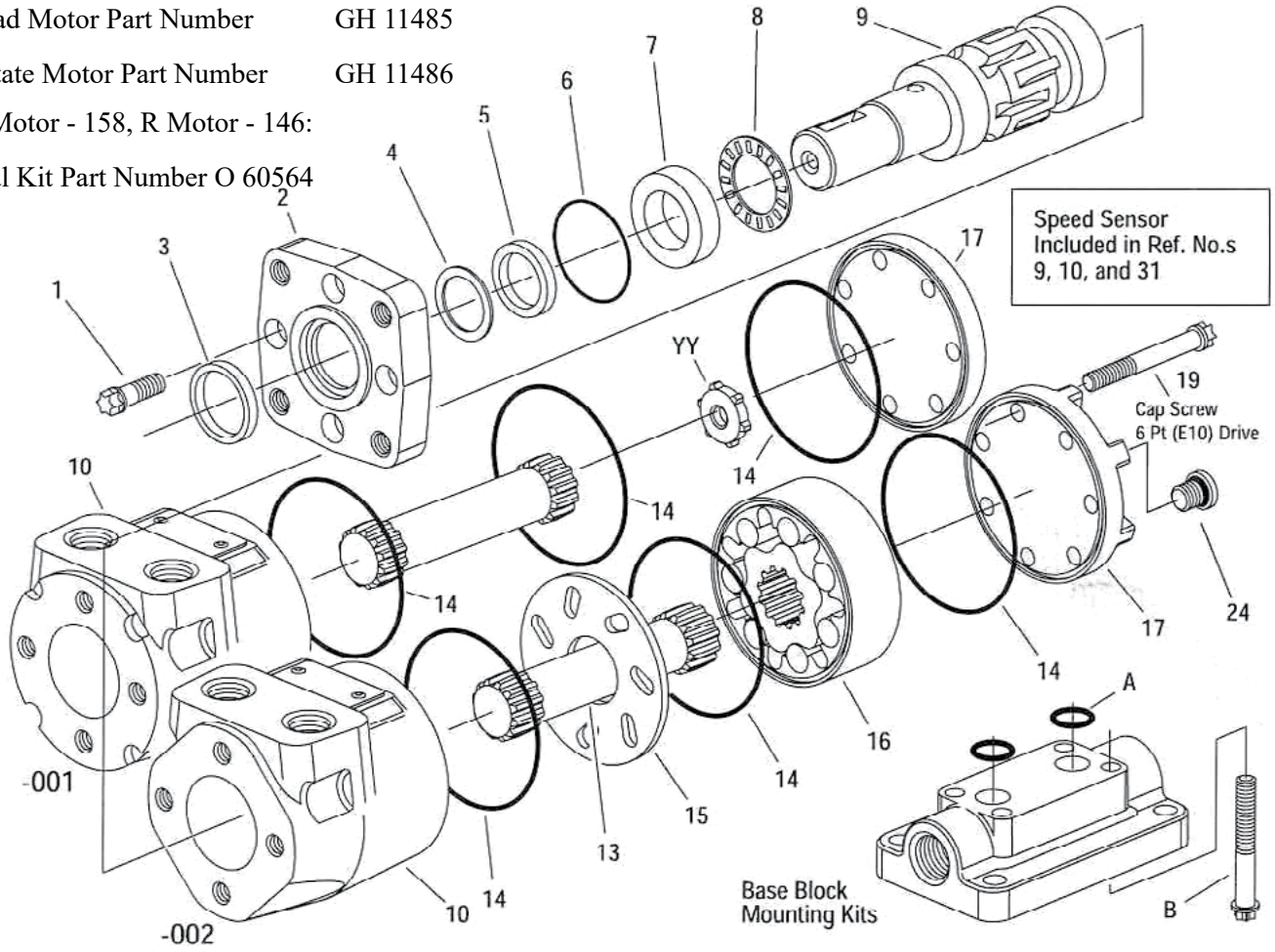
HEAD & ROTATE MOTOR

Head Motor Part Number GH 11485

Rotate Motor Part Number GH 11486

H Motor - 158, R Motor - 146:

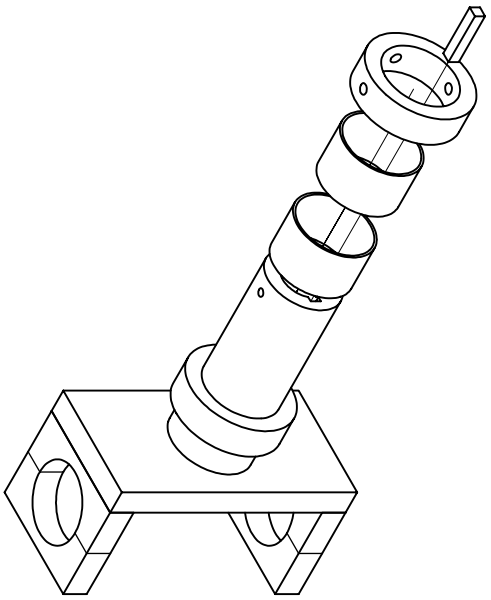
Seal Kit Part Number O 60564



All R -002 parts are interchangeable with R -002 parts except: End Cap (seal groove change), housing, section seals, drives and drive spacer. Note: Each displacement in the R -002 has its own unique drive with no spacer required.

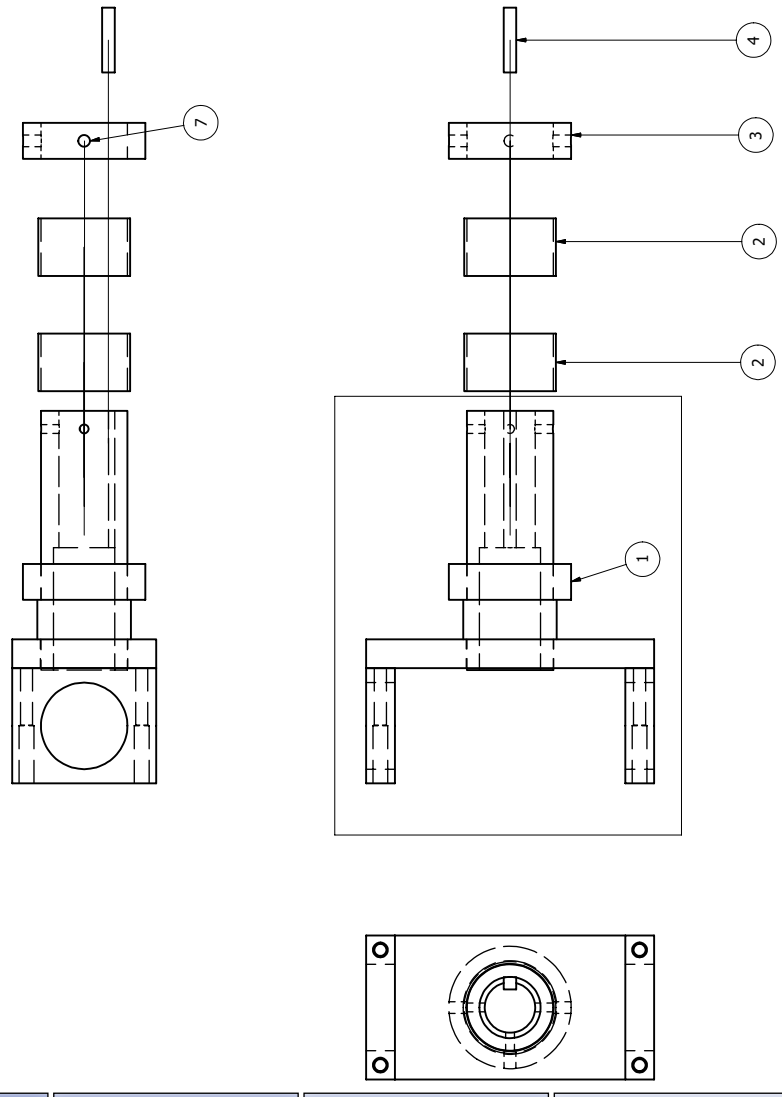
Ref. No.	-002 Part No.	-001 Part No.	Description	Quantity
1	16292-088	16292-088	Screw, Cap (6 Point (E10) Drive 5/16-24 x 7/8)	4
2	22000-002	22000-002	Flange Mounting (4 Bolt) 3/8-16 UNC	1
X 3	9121-002	9121-002	Seal, Exclusion	1
X 4	22002-000	22002-000	Washer, Backup	1
X 5	9057-014	9057-014	Seal, Pressure	1
X 6	9091-001	9091-001	Seal	1
7	7462-000	7462-000	Race, Thrust Bearing	1
8	7537-000	7537-000	Bearing, Thrust Needle	1
9	7360-001	7360-001	Shaft, Output (1 in. Dia. Straight with Woodruff Key Slot)	1
10	201083-001	22807-001	Housing, 7/8-14 O-ring Ports	1
13			Drive	1
X 14	9086-005	250001-041	Seal	3
15	22808-000	22808-000	Plate, Spacer	1
16			Geroler	1
17	23986-001	22809-001	Cap, End (No Port)	1
19	*	*	Screw, Cap (6 Point (E10) Drive 5/16-24)	7
24	9072-003	9072-003	Plug/ O-ring (7/16-20 Drain Port)	1

ROTATE PIN ASSEMBLY



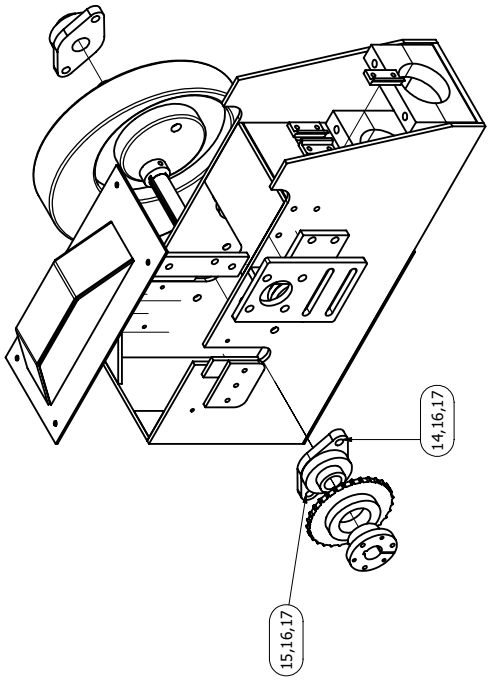
Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	GH0295	ROTATE TUBE ASSEMBLY
2	2	GH11925	BUSHINGS
3	1	GH0297	RETAINING COLLAR ROTATE
4	1	GH11916	7/16" X 2 1/4" KEY STOCK STAINLESS
5	4	N1565	HHCS 1/2"-13 X 3"
6	4	N1525	LOCKWASHER 1/2"
7	3	N9915	SET SCREW 3/8"-16 X 1/2"



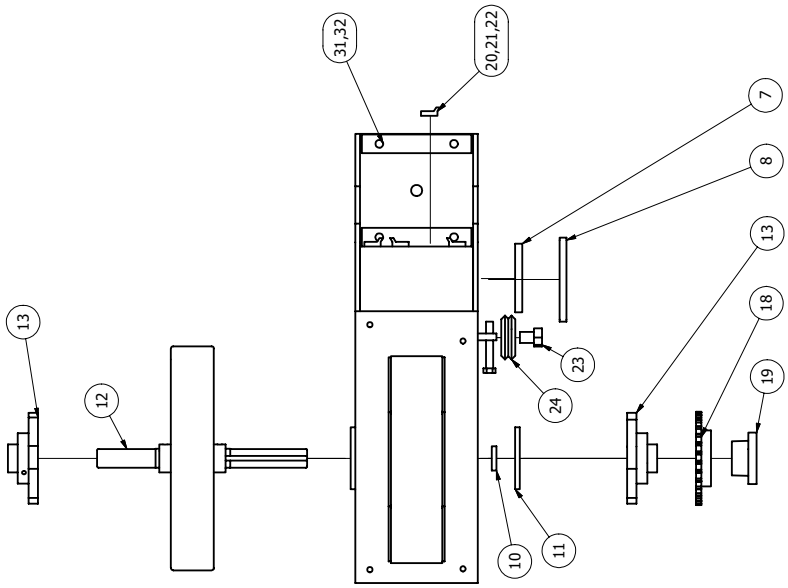

Tube 80”
GH 12685
Tube 76”
GH 12690
Plate Cover
GL 11843
Clamp 1/2”
GL 11842
Bolt
GL 11844
Weld Plate
GL 11841
Gillison’s

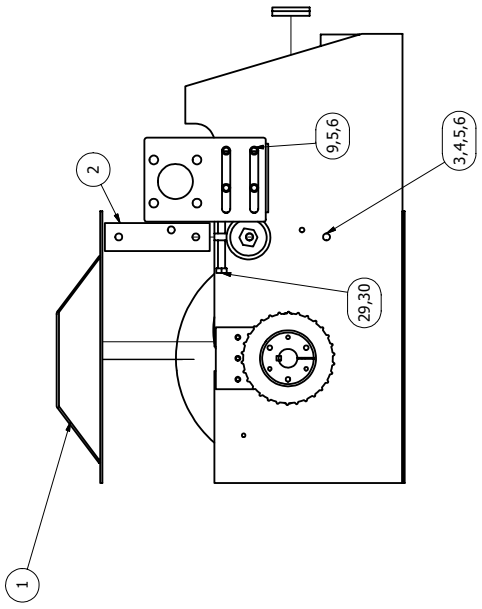
HEAD BOX ASSEMBLY



Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	GH0391	CAM WHEEL COVER
2	2	GH1309	5/16" X 1 1/2" COLD FLAT V-ROLLER SPACER
3	4	N2315	SHCS 3/8"-16 X 2 1/2"
4	4	N1290	LOCKNUT 3/8"-16
5	8	N1150	FLATWASHER 5/16"
6	8	N1280	LOCKWASHER 3/8"
7	1	GH0387P	MOTOR MOUNT SPACER
8	1	GH0388P	MOTOR MOUNT
9	1	N1305	HHCS 3/8"-16 X 1 1/2"
10	2	GH0312	SPACER
11	2	GH0311	BEARING RETAINER PLATE
12	1	GH11327	CAM WHEEL AND SHAFT ASSEMBLY
13	2	GH11350	BEARING, 1"
14	2	GH11988	HHCS 7/16"-14 X 1 1/2" MILLED HEAD
15	2	N1435	HHCS 7/16"-14 X 1 1/2"
16	4	N1405	HEX NUT 7/16"-14
17	4	N1415	LOCKWASHER 7/16"
18	1	GH11321	SPROCKET, 30T
19	1	GH11469	BUSHING, SPROCKET
20	4	GH11333	WIPER
21	8	N1030	HHCS 1/4"-20 X 3/4"
22	8	N1020	LOCKWASHER 1/4"
23	4	GH11358	BUSHING, CAM
24	4	GH11357	WHEEL, W4 DUALVEE SHIELDED
25	1	GH11907	#40 CHAIN 33 3/4"LONG
26	1	R1020	#40 MASTER LINK
27	1	GH11325	MOTOR SPROCKET 16T
28	1	GH11376	SICKLE DRIVE SPROCKET COVER SPECIFY RH OR LH WHEN ORDERING
29	1	G1010	CHAIN TENSIONER BOLT 3/8"-16 X 2 1/2"
30	1	N1270	HEX NUT 3/8" - 16
31	4	N1570	HHCS 1/2"-13 X 3 1/2"
32	4	N1525	LOCKWASHER 1/2"





RH CUTTER BOX SHOWN

CLAMP ASSEMBLY

GH 11463-12, Assembly

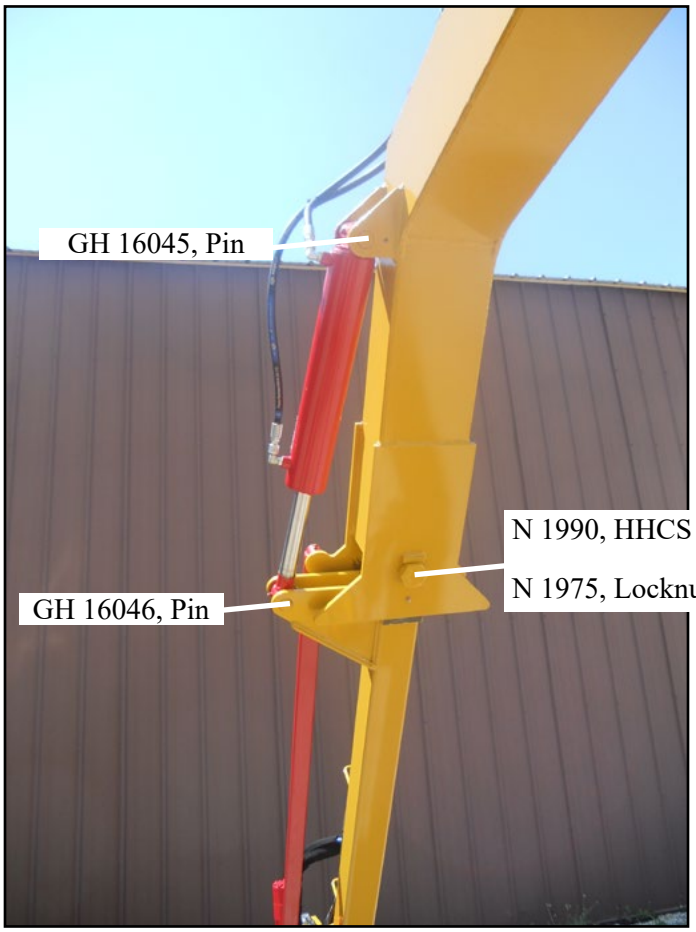
GH 12313, Wear Plate Nyloil

Used on clamp:

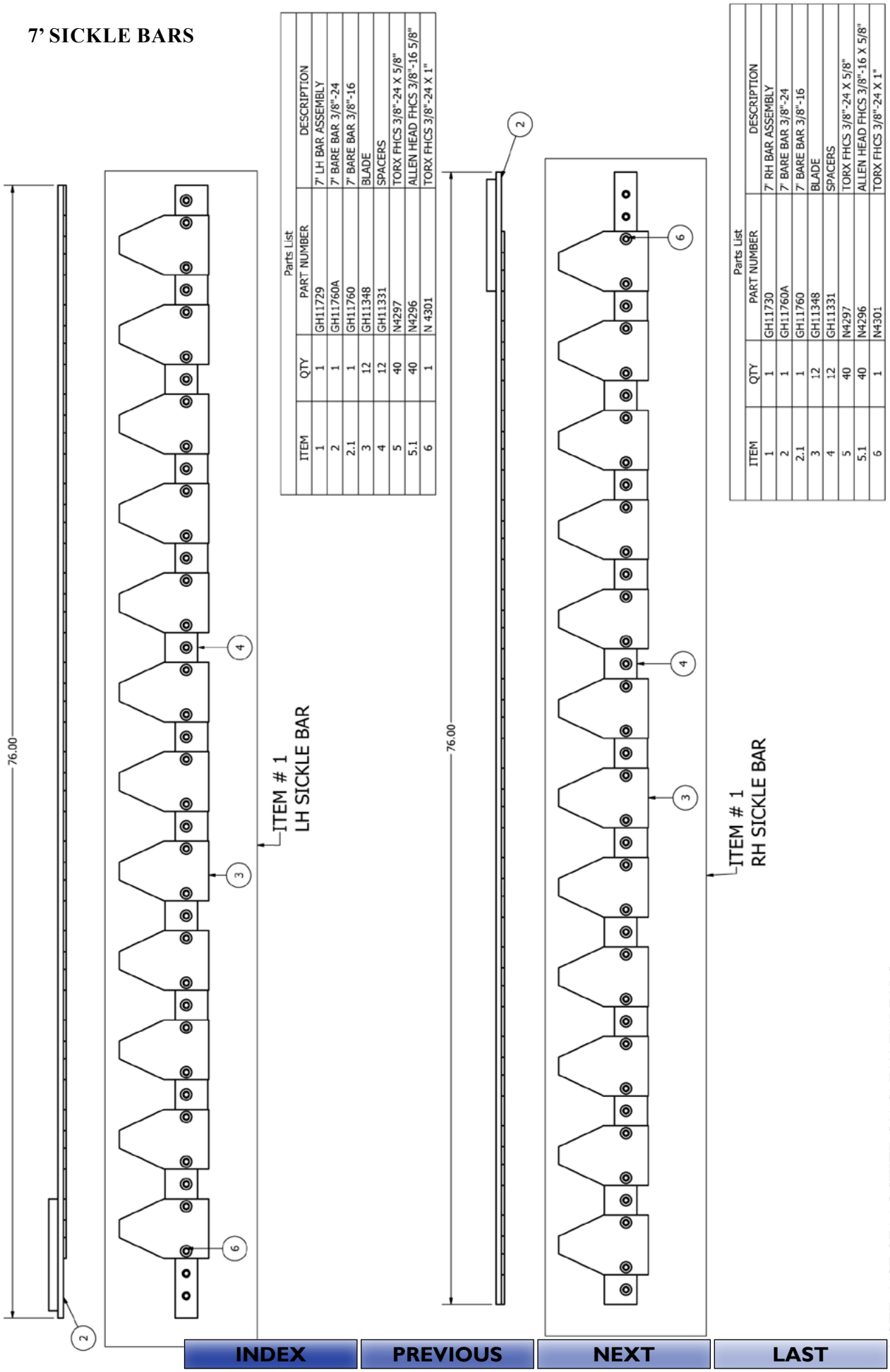
N 1312, 3/8-16 x 2 1/4

N 1280, 3/8 4 W

N 4030 1/4 - 20 x 3/4 FHCS



7' SICKLE BARS



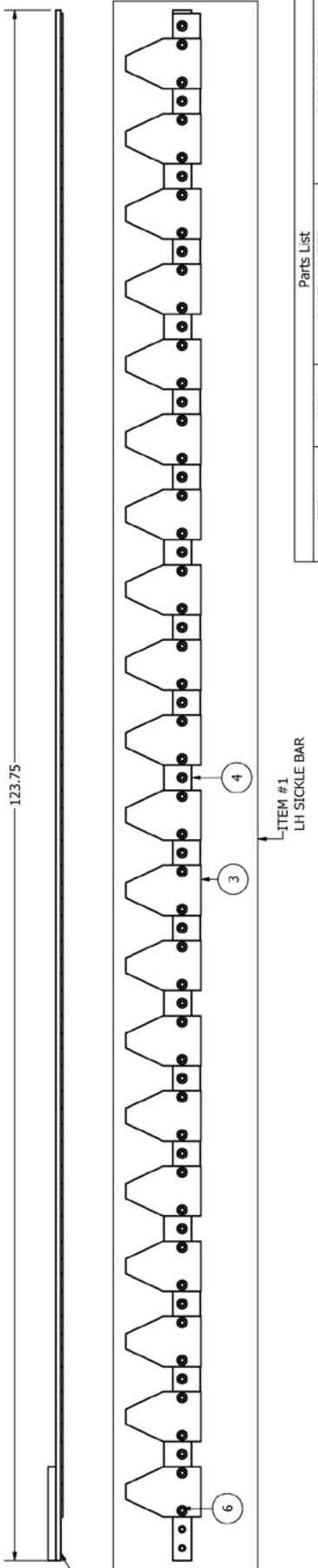
Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	GH11729	7' LH BAR ASSEMBLY
2	1	GH11760A	7' BARE BAR 3/8"-24
2.1	1	GH11760	7' BARE BAR 3/8"-16
3	12	GH11348	BLADE
4	12	GH11331	SPACERS
5	40	N4297	TORX FHCS 3/8"-24 X 5/8"
5.1	40	N4296	ALLEN HEAD FHCS 3/8"-16 5/8"
6	1	N 4301	TORX FHCS 3/8"-24 X 1"

Parts List

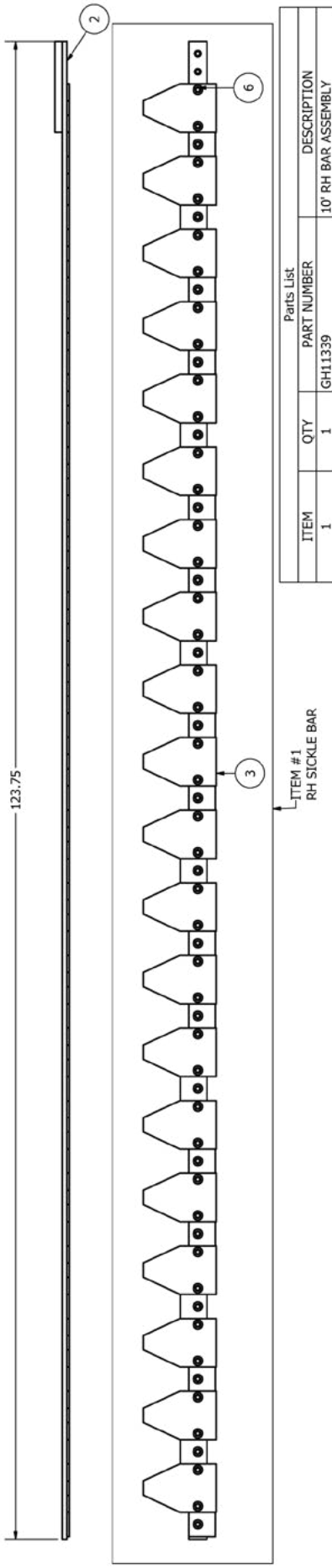
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	GH11730	7' RH BAR ASSEMBLY
2	1	GH11760A	7' BARE BAR 3/8"-24
2.1	1	GH11760	7' BARE BAR 3/8"-16
3	12	GH11348	BLADE
4	12	GH11331	SPACERS
5	40	N4297	TORX FHCS 3/8"-24 X 5/8"
5.1	40	N4296	ALLEN HEAD FHCS 3/8"-16 X 5/8"
6	1	N4301	TORX FHCS 3/8"-24 X 1"

10' SICKLE BARS



Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	GH11338	10' LH BAR ASSEMBLY
2	1	GH11662A	10' BARE BAR 3/8"-24
2.1	1	GH11662	10' BARE BAR 3/8"-16
3	20	GH11348	BLADE
4	20	GH11331	SPACERS
5	60	N4297	TORX FHCS 3/8"-24 X 5/8"
5.1	60	N4296	ALLEN HEAD FHCS 3/8"-16 X 5/8"
6	1	N4301	TORX FHCS 3/8"-24 X 1"

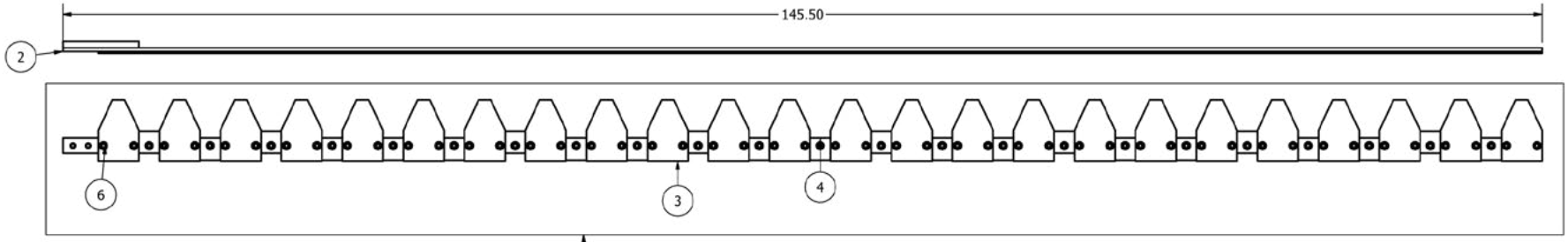


Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	GH11339	10' RH BAR ASSEMBLY
2	1	GH11662A	10' BARE BAR 3/8"-24
2.1	1	GH11662	10' BARE BAR 3/8" -16
3	20	GH11348	BLADE
4	20	GH11331	SPACERS
5	60	N4297	TORX FHCS 3/8"-24 X 5/8"
5.1	60	N4296	ALLEN HEAD FHCS 3/8"-16 X 5/8"
6	1	N4301	TORX FHCS 3/8"-24 X 1"

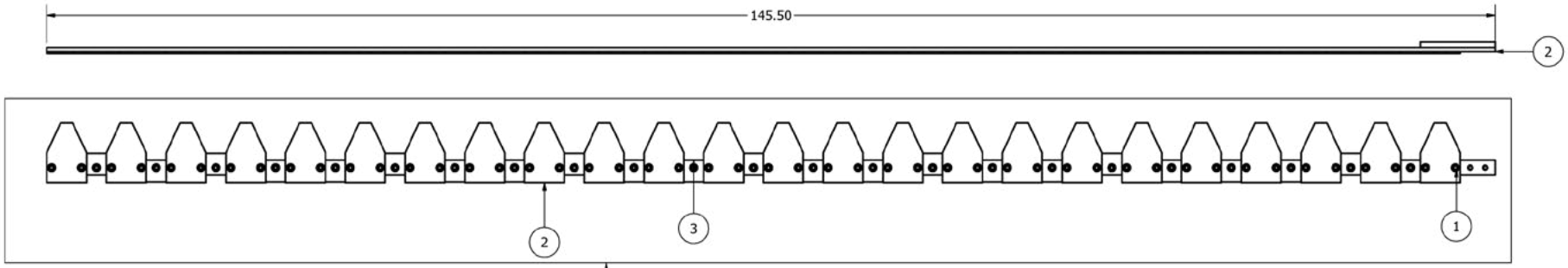
NOTE: USE 271 LOCTITE ON CLEAN THREADS
TORQUE BOLTS TO
50 (LB-FT) TORX HEAD
30 (LB-FT) ALLEN HEAD

12' SICKLE BARS



ITEM #1
LH SICKLE BAR

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	GH11702	12' LH BAR ASSEMBLY
2	1	GH11704A	12' BARE BAR 3/8"-24
2.1	1	GH11704	12' BARE BAR 3/8"-16
3	24	GH11348	BLADE
4	23	GH11331	SPACERS
5	70	N4297	TORX FHCS 3/8"-24 X 5/8 "
5.1	70	N4296	ALLEN HEAD FHCS 3/8"-16 X 5/8"
6	1	N4301	TORX FHCS 3/8"-24 X 1"

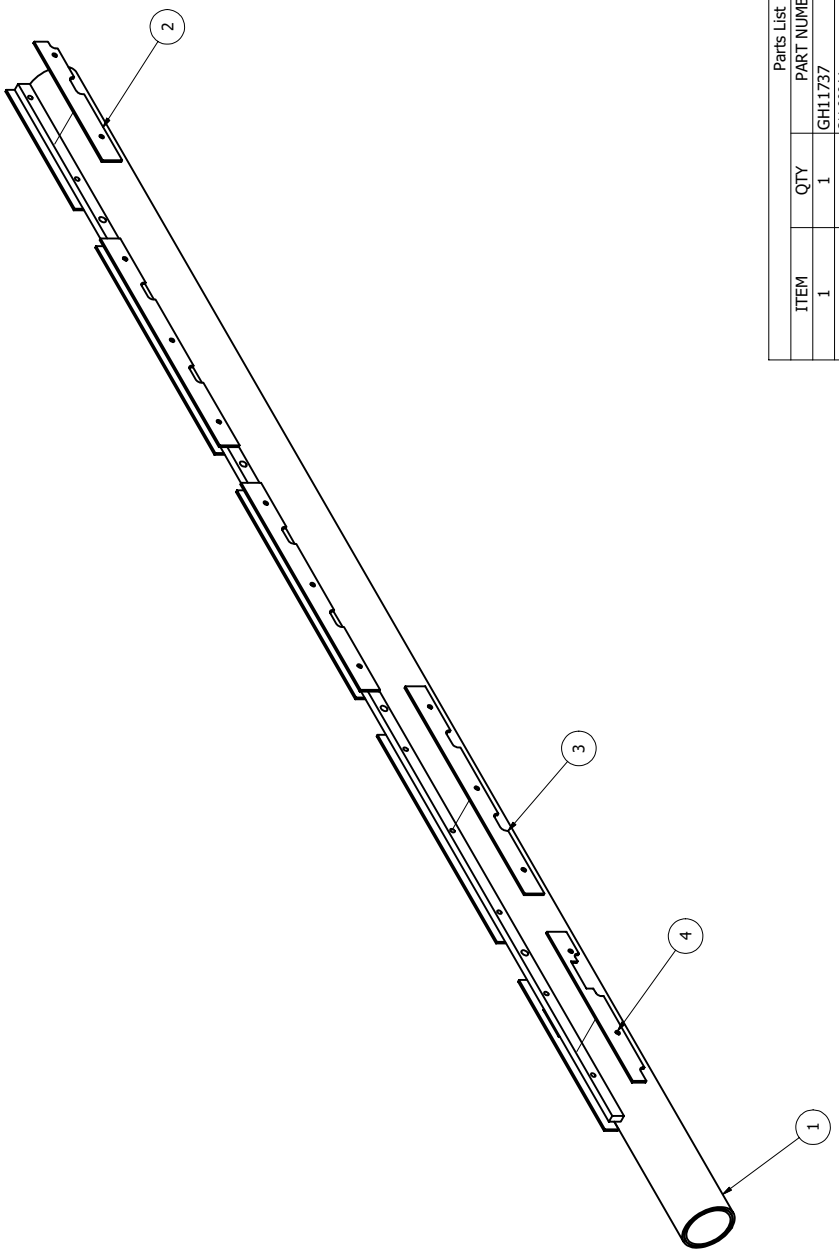


ITEM #1
RH SICKLE BAR

Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	GH11703	12' RH BAR ASSEMBLY
2	1	GH11704A	12' BARE BAR 3/8"-24
3	1	GH11704	12' BARE BAR 3/8"-16
2	24	GH11348	BLADE
3	23	GH11331	SPACERS
5	70	N4297	TORX FHCS 3/8"-24 X 5/8"
5.1	70	N4296	ALLEN HEAD FHCS 3/8"-16 X 5/8"
6	1	N4301	TORX FHCS 3/8" -24 X 1"

NOTE: USE 271 LOCTITE ON CLEAN THREADS
TORQUE BOLTS TO
50 (LB- FT) TORX HEAD
30 (LB-FT) ALLEN HEAD

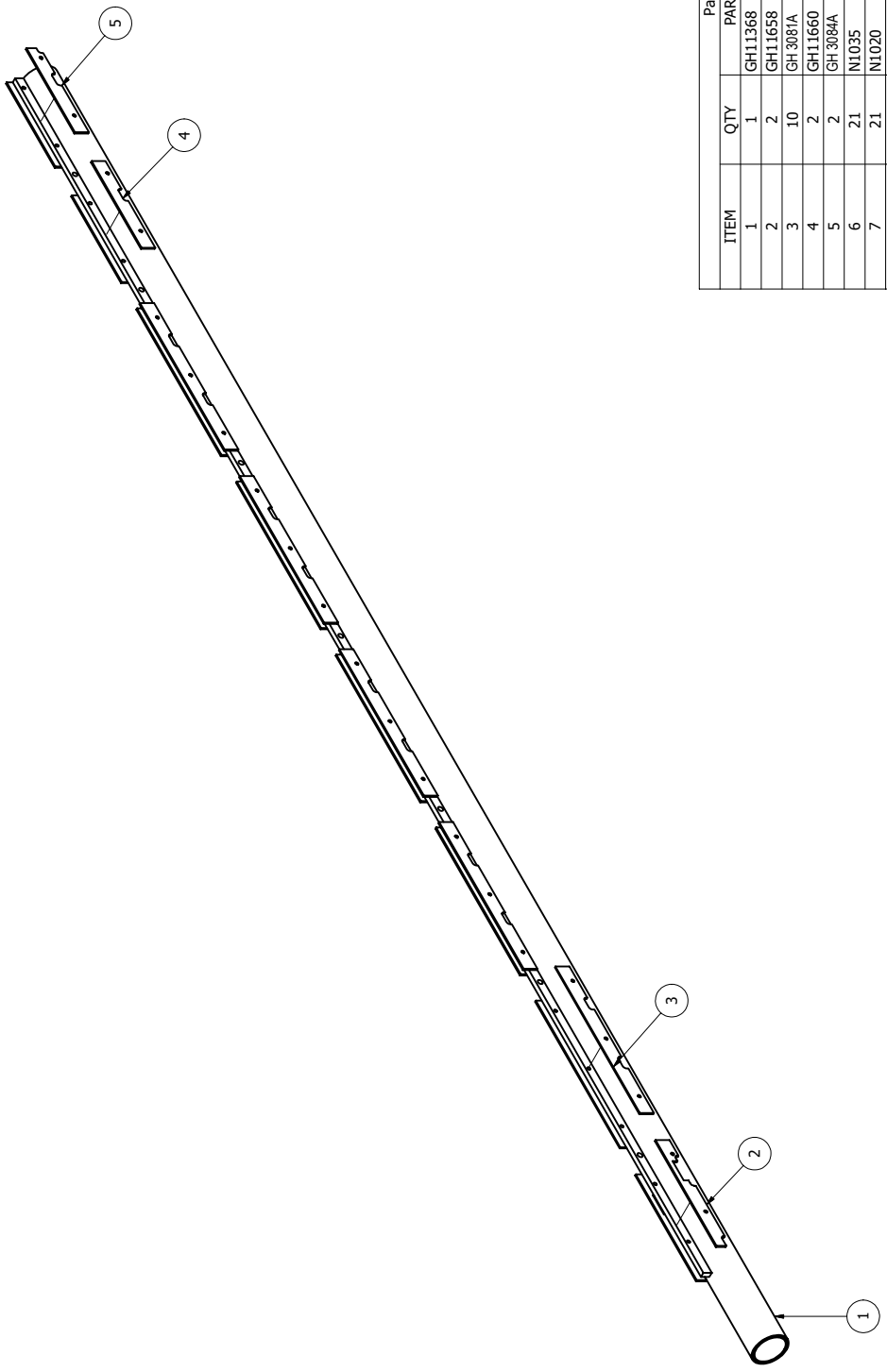
7' TUBE ASSEMBLY



Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	GH11737	7' TUBE ASSEMBLY
2	2	GH 3084A	GUIDE PLATE 9"
3	6	GH 3081A	GUIDE PLATE 15 3/4"
4	2	GH11658	GUIDE PLATE 11"
5	13	N1035	HHCS 1/4"-20 X 1"
6	13	N1020	LOCKWASHER 1/4"
7	13	N1010	HEX NUT, 1/4"-20

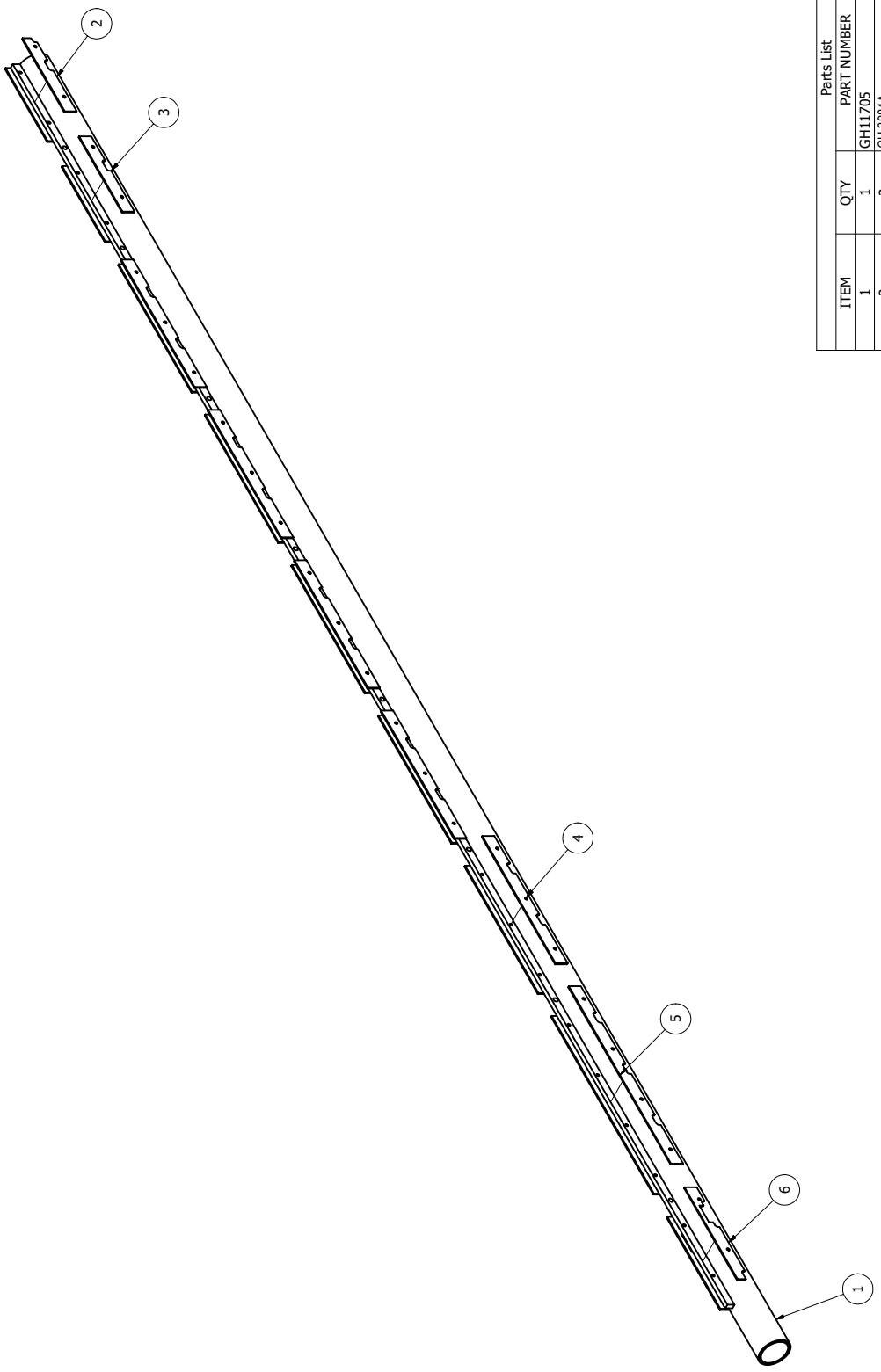
10' TUBE ASSEMBLY



Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	GH11368	10' TUBE ASSEMBLY
2	2	GH11658	GUIDE PLATE 11"
3	10	GH 3081A	GUIDE PLATE 15 3/4"
4	2	GH11660	GUIDE PLATE 9 3/4"
5	2	GH 3084A	GUIDE PLATE 9"
6	21	N1035	HHCS 1/4"-20 X 1"
7	21	N1020	LOCKWASHER 1/4"
8	21	N1010	HEX NUT, 1/4-20

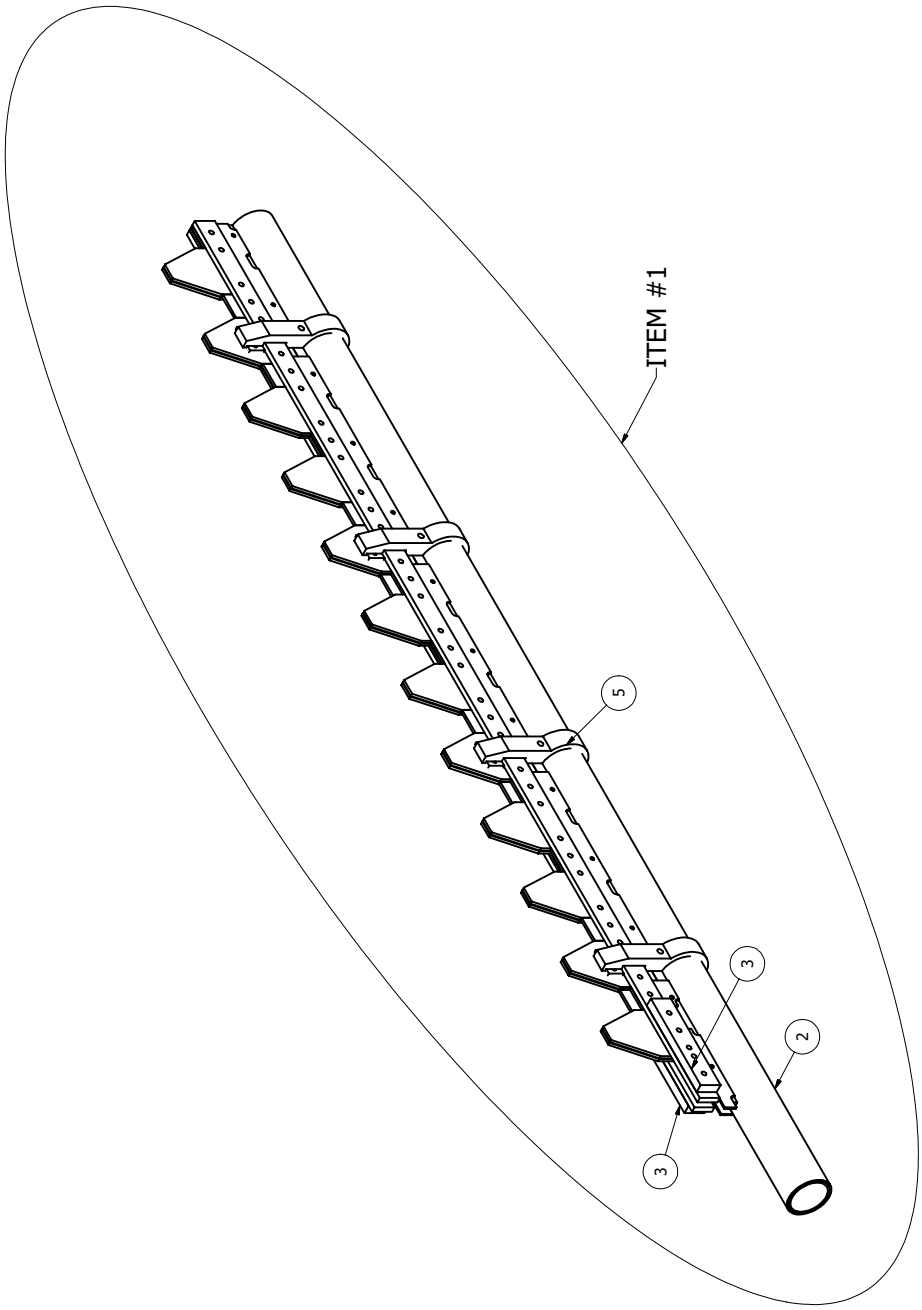
12' TUBE ASSEMBLY



Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	GH11705	12' TUBE ASSEMBLY
2	2	GH 3084A	GUIDE PLATE 9"
3	2	GH11660	GUIDE PLATE 9 3/4"
4	10	GH11659	GUIDE PLATE 15 3/4"
5	2	GH11710	GUIDE PLATE 24"
6	2	GH11658	GUIDE PLATE 11"
7	25	N1035	HHCS 1/4"-20 X 1"
8	25	N1020	LOCKWASHER 1/4"
9	25	N1010	HEX NUT, 1/4"-20

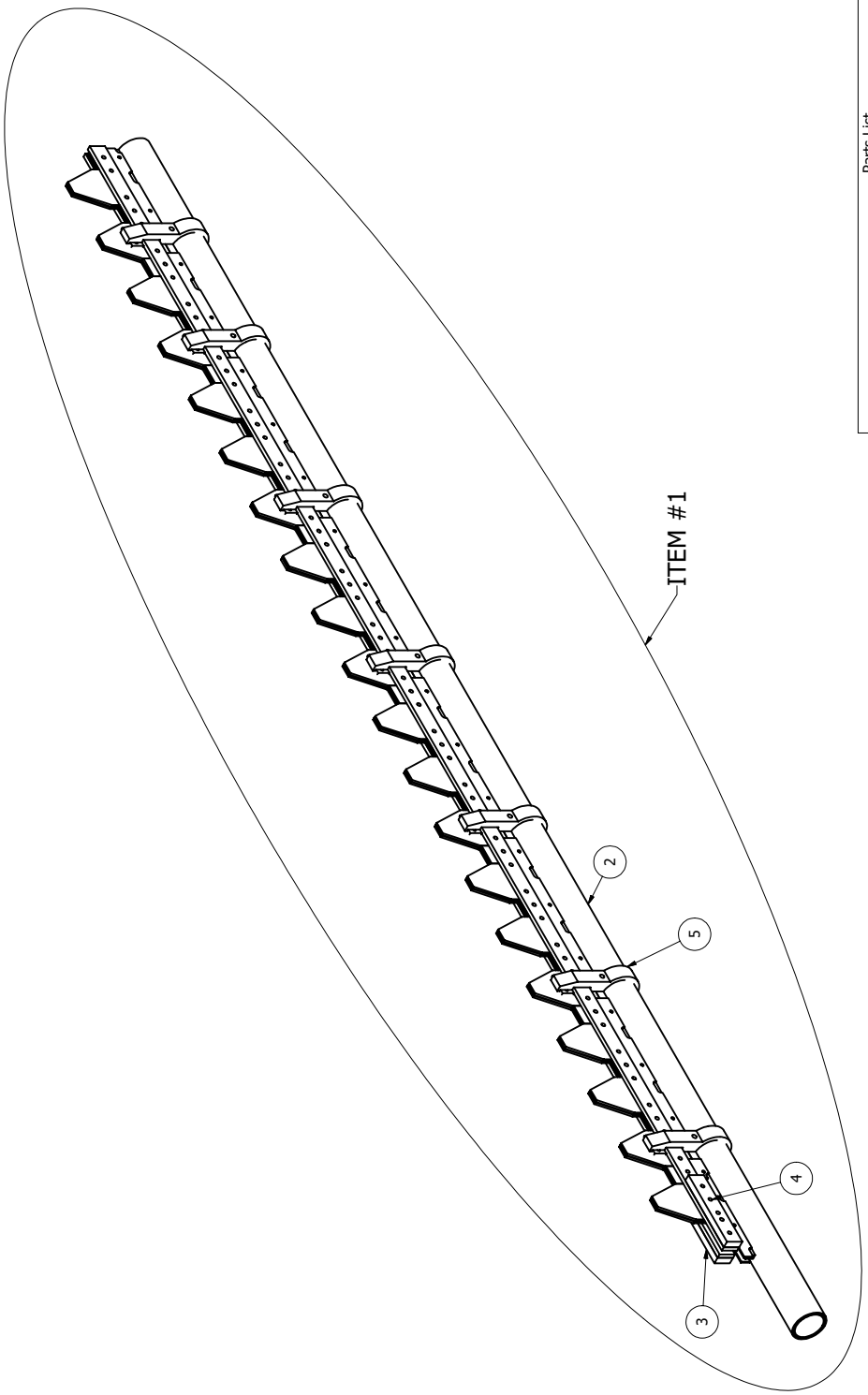
7' SICKLE BAR & TUBE ASSEMBLY



Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	GH11722	7' SICKLE BAR AND TUBE ASSEMBLY
2	1	GH11737	7' TUBE ASSEMBLY
3	1	GH11729	7' LH BAR ASSEMBLY
4	1	GH11730	7' RH BAR ASSEMBLY
5	4	GH11463-12	CLAMP ASSEMBLY

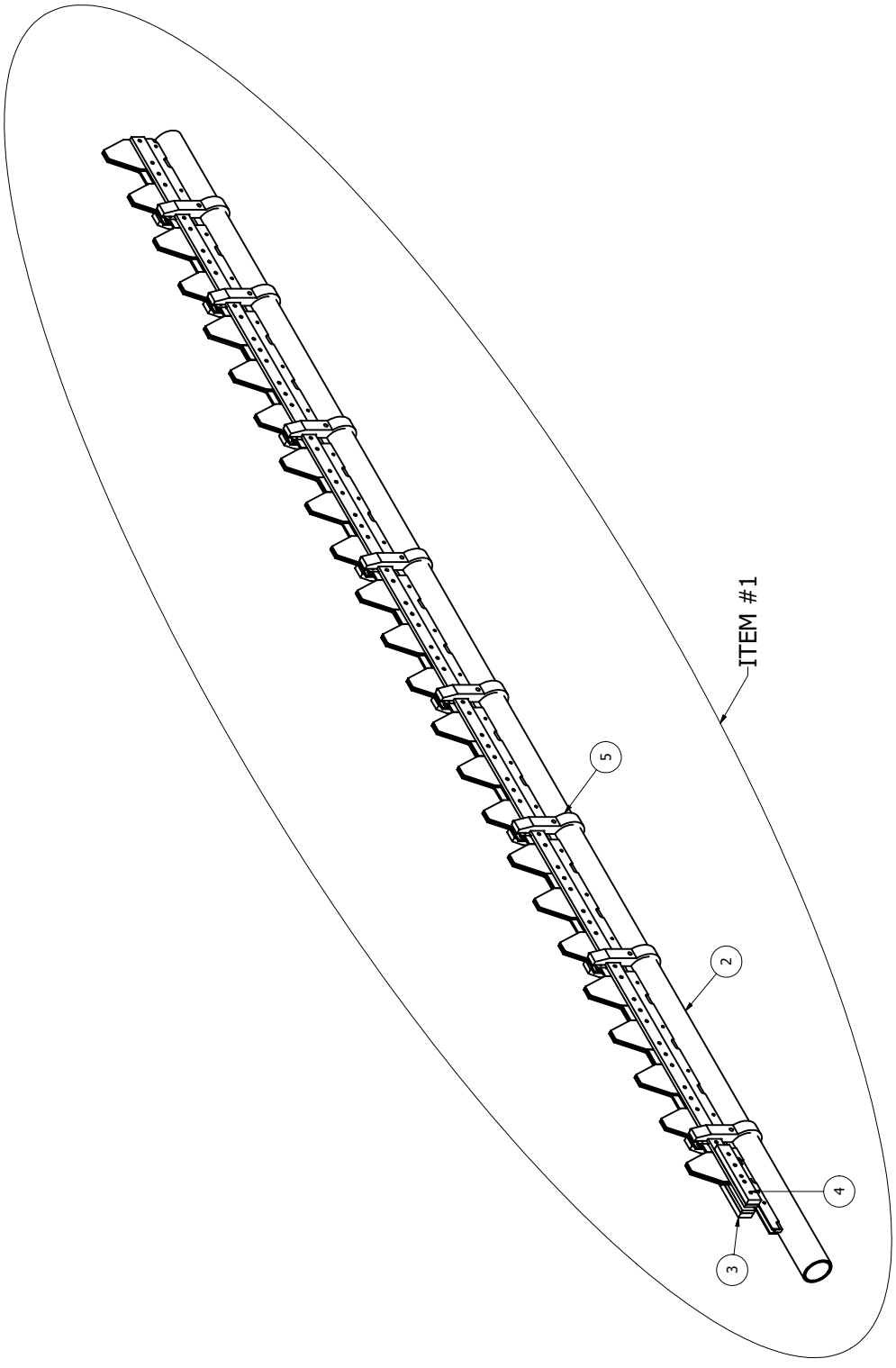
10' SICKLE BAR & TUBE ASSEMBLY



Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	GH11621	10' SICKLE BAR AND TUBE ASSEMBLY
2	1	GH11368	10' TUBE ASSEMBLY
3	1	GH11338	10' LH BAR ASSEMBLY
4	1	GH11339	10' RH BAR ASSEMBLY
5	7	GH11463-12	CLAMP ASSEMBLY

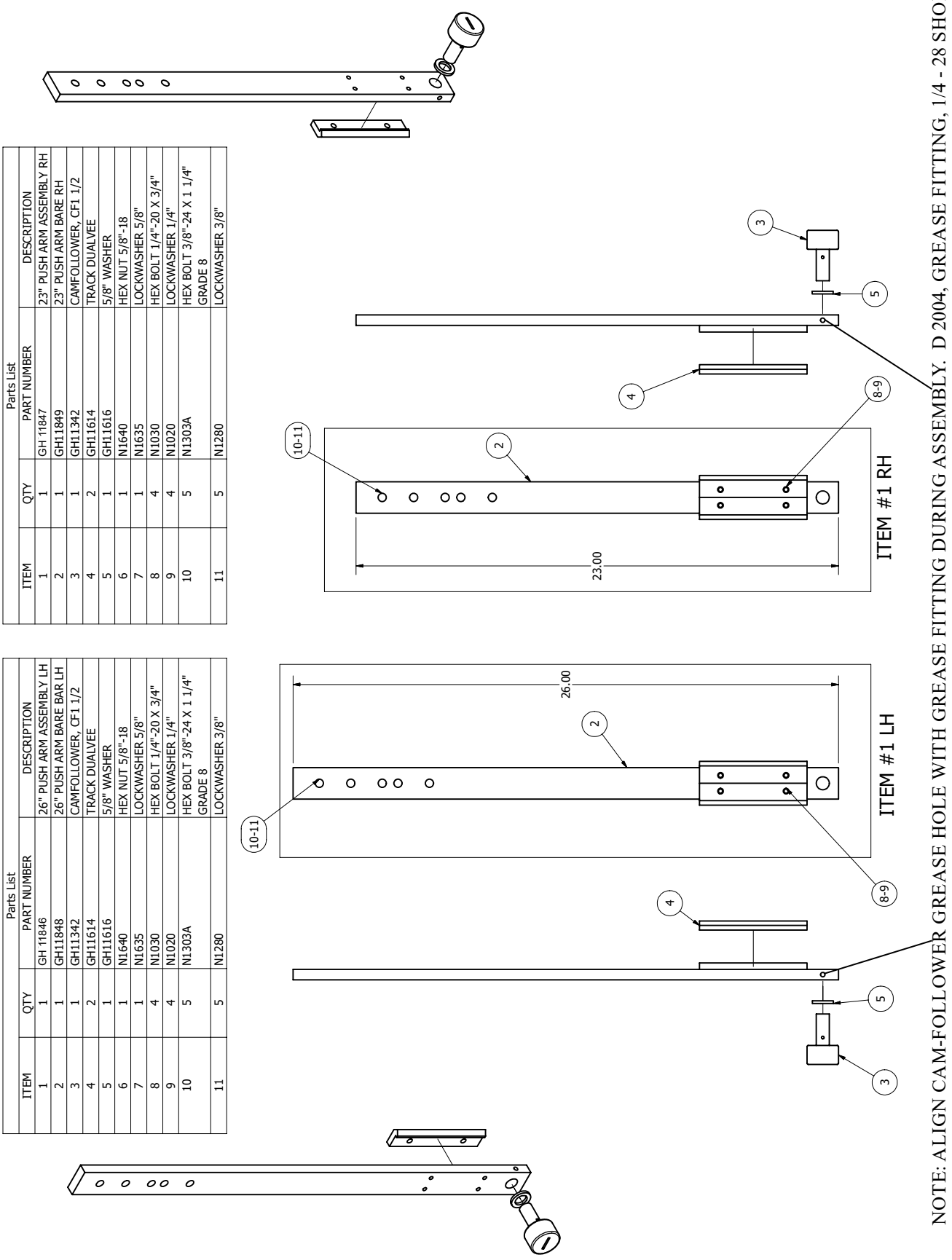
12' SICKLE BAR & TUBE ASSEMBLY



Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	GH11701	12' SICKLE BAR AND TUBE ASSEMBLY
2	1	GH11705	12' TUBE ASSEMBLY
3	1	GH11702	12' LH BAR ASSEMBLY
4	1	GH11703	12' RH BAR ASSEMBLY
5	8	GH11463-12	CLAMP ASSEMBLY

RH & LH PUSH ARM ASSEMBLIES



Parts List

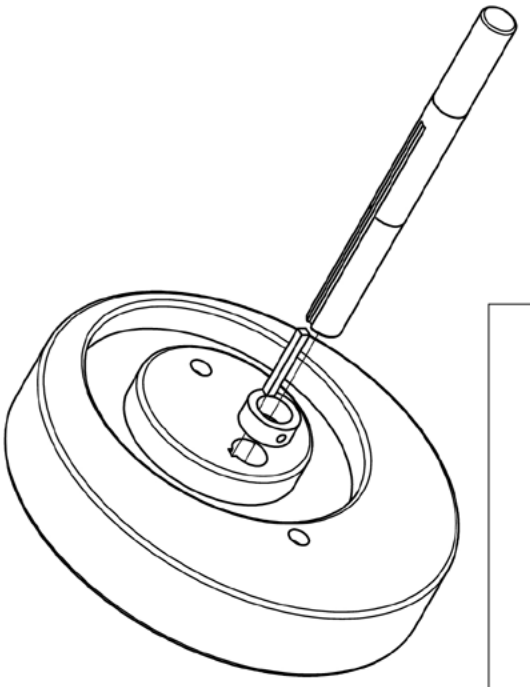
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	GH 11847	23" PUSH ARM ASSEMBLY RH
2	1	GH11849	23" PUSH ARM BARE RH
3	1	GH11342	CAMFOLLOWER, CF1 1/2
4	2	GH11614	TRACK DUALVEE
5	1	GH11616	5/8" WASHER
6	1	N1640	HEX NUT 5/8"-18
7	1	N1635	LOCKWASHER 5/8"
8	4	N1030	HEX BOLT 1/4"-20 X 3/4"
9	4	N1020	LOCKWASHER 1/4"
10	5	N1303A	HEX BOLT 3/8"-24 X 1 1/4" GRADE 8
11	5	N1280	LOCKWASHER 3/8"

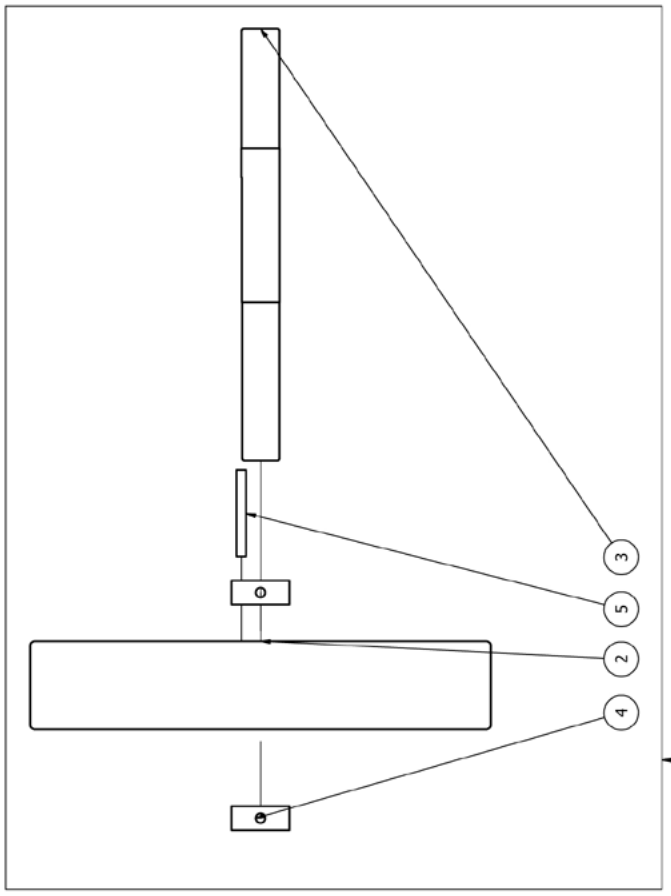
Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	GH 11846	26" PUSH ARM ASSEMBLY LH
2	1	GH11848	26" PUSH ARM BARE BAR LH
3	1	GH11342	CAMFOLLOWER, CF1 1/2
4	2	GH11614	TRACK DUALVEE
5	1	GH11616	5/8" WASHER
6	1	N1640	HEX NUT 5/8"-18
7	1	N1635	LOCKWASHER 5/8"
8	4	N1030	HEX BOLT 1/4"-20 X 3/4"
9	4	N1020	LOCKWASHER 1/4"
10	5	N1303A	HEX BOLT 3/8"-24 X 1 1/4" GRADE 8
11	5	N1280	LOCKWASHER 3/8"

NOTE: ALIGN CAM-FOLLOWER GREASE HOLE WITH GREASE FITTING DURING ASSEMBLY. D 2004, GREASE FITTING, 1/4 - 28 SHORT

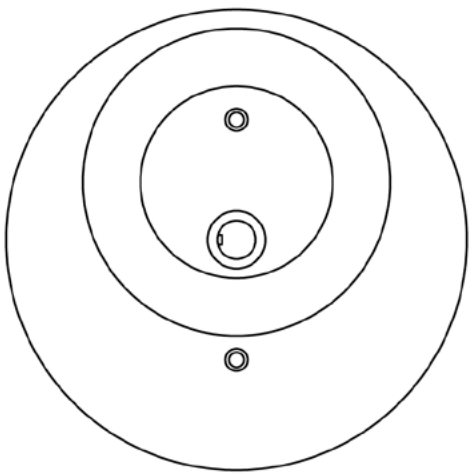
CAM WHEEL AND SHAFT ASSEMBLY





Parts List

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	GH11327	CAM WHEEL AND SHAFT ASSEMBLY
2	1	GH11612	CAM WHEEL
3	1	GH11366	CAM SHAFT
4	2	GH11367	LOCK COLLARS
5	1	GH11985	KEY 1/4" X 2 1/4"



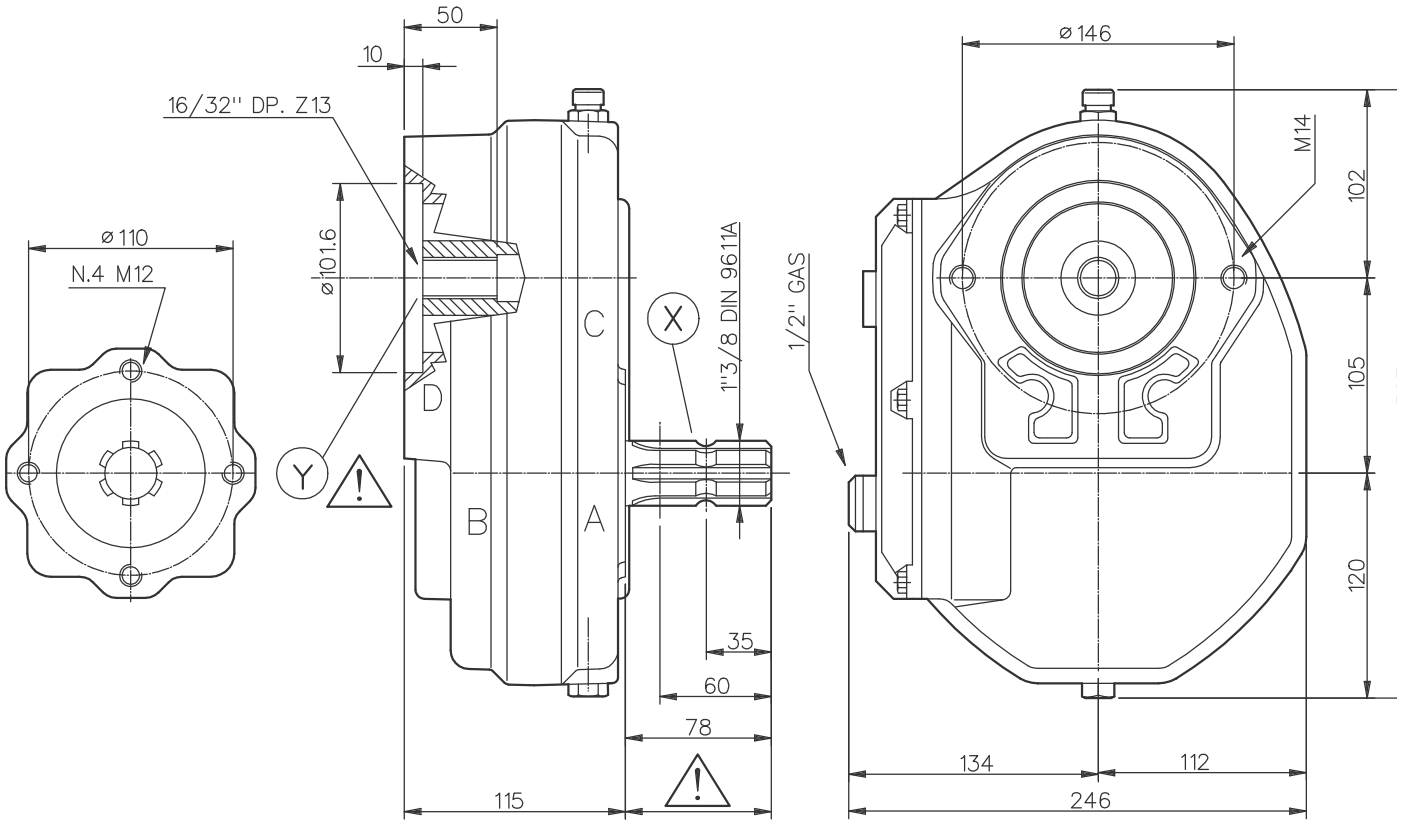
GVF CENTER MOUNT HEDGER - MAIN FRAME


MB 50035829, Tube, Owners Manual
GH 16008, Tank


GH 16065, Pin 1 1/4
GVF

HYDRAULIC GEARBOX DRAWING

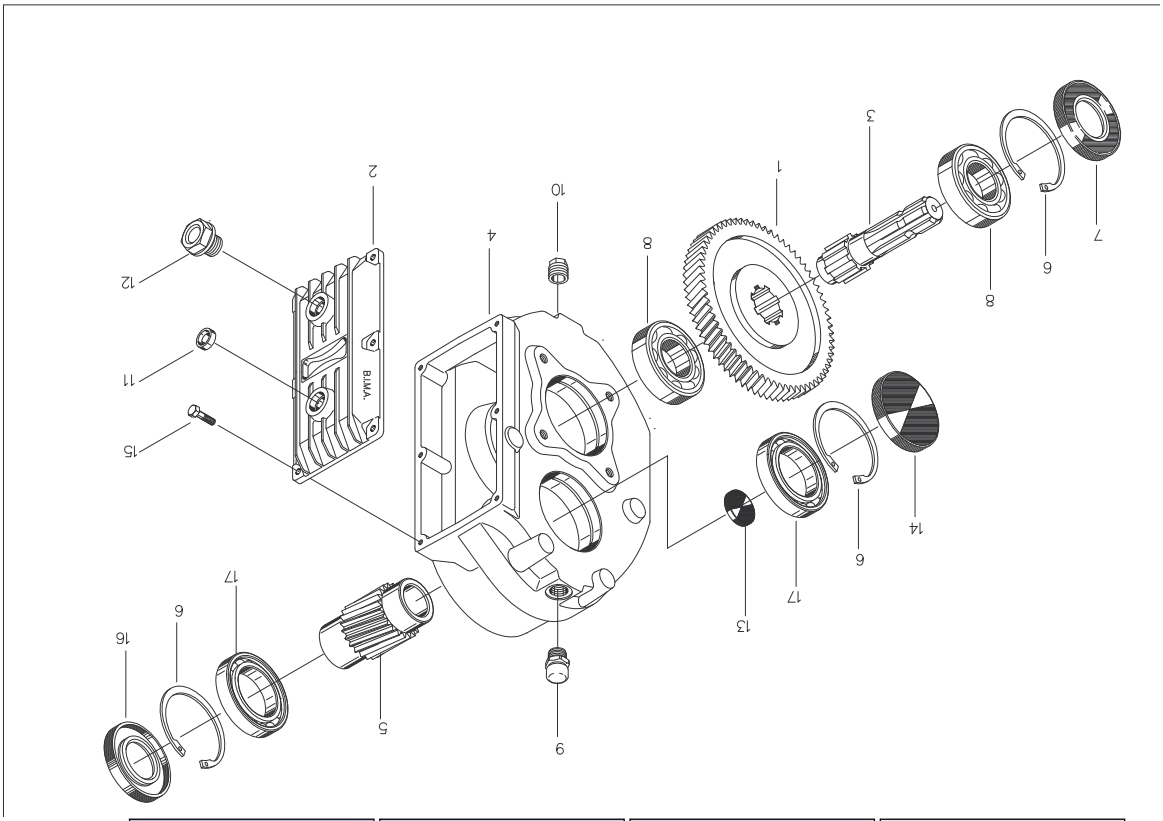
GH 12635



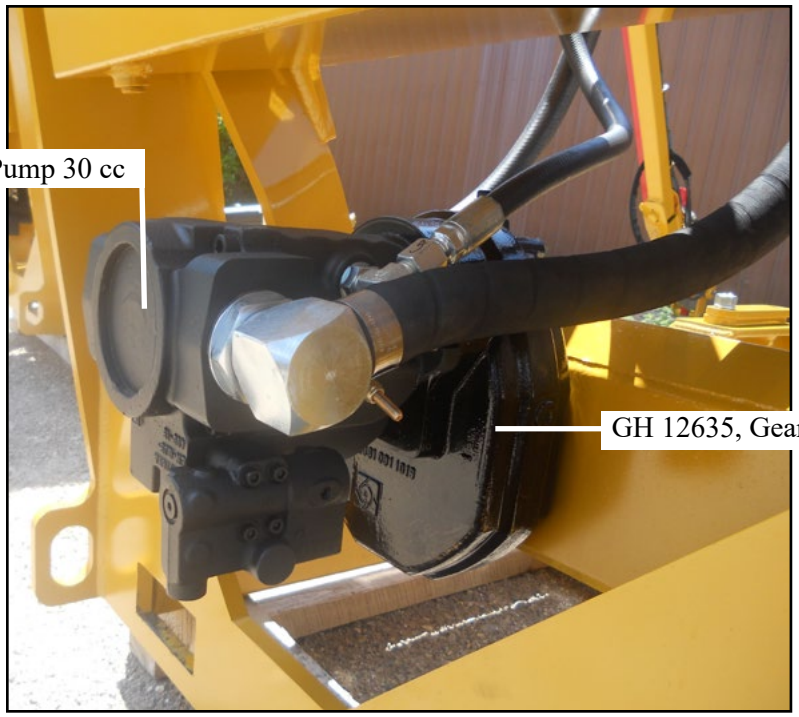
HYDRAULIC GEARBOX BREAKDOWN

GH 12635

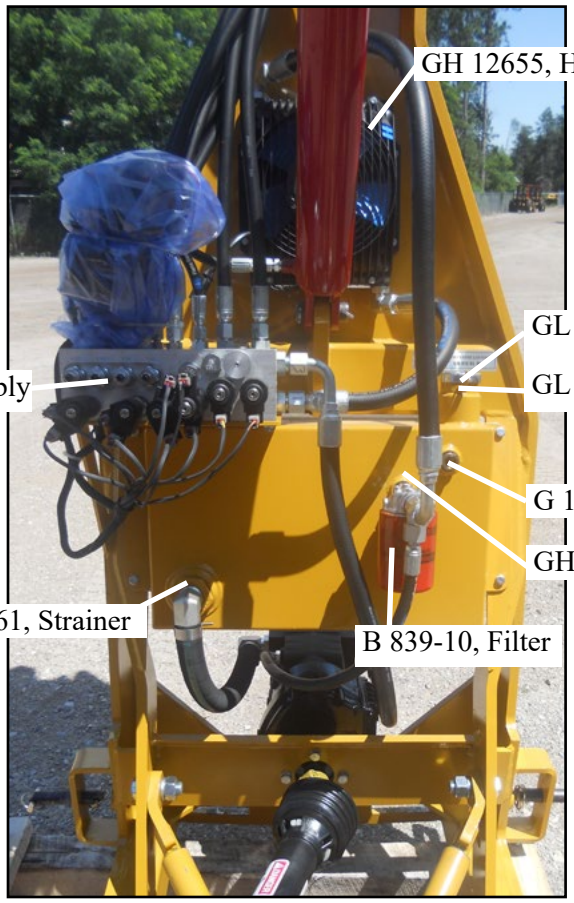
RIF. REF. REF. BEZUG	CODICE CODE CODE BESTELL.NR.	Q.TA' Q.TY QTE M.GE	DESCRIZIONE DESCRIPTION DESCRIPTION BESCHREIBUNG	DIMENSIONI DIMENSIONS DIMENSIONS ABMESSUNGEN
1	2061.017.426	1	INGRANAGGIO – GEAR ENGRENAGE – ZAHNRAD	
2	2023.209.209	1	COPERCHIO – COVER COUVERCLE – DECKEL	
3	2061.004.542	1	ALBERO – SHAFT ARBRE – WELLE	
4	2061.008.101	1	SCATOLA – HOUSING CARTER – GEHÄUSE	
5	2005.084.542	1	ALBERO – SHAFT ARBRE – WELLE	
6	8025.580.000	3	SEEGER – CIRCLIP CIRCLIP – SICHERUNGSRING	D 80 I
7	8050.394.000	1	ANELLO TENUTA – OIL SEAL BAGUE D'ETANCHEITE' – SIMMERRING	35x80x10
8	8200.244.000	2	CUSCINETTO – BEARING ROULEMENT – LAGER	6307
9	8600.140.000	1	TAPPO OLIO – OIL PLUG BOUCHON – OELEINFUELLSCHRAUBE	3/8'' GAS
10	8600.144.000	1	TAPPO OLIO – OIL PLUG BOUCHON – OELEINFUELLSCHRAUBE	3/8'' GAS
11	8600.168.000	1	TAPPO OLIO – OIL PLUG BOUCHON – OELEINFUELLSCHRAUBE	D 20
12	8625.183.000	1	TAPPO OLIO – OIL PLUG BOUCHON – OELEINFUELLSCHRAUBE	1/2'' GAS
13	8600.300.000	1	TAPPO OLIO – OIL PLUG BOUCHON – OELEINFUELLSCHRAUBE	RCA 28
14	8600.760.000	1	TAPPO OLIO – OIL PLUG BOUCHON – OELEINFUELLSCHRAUBE	RCA 80
15	8675.066.080	6	VITE – SCREW BOULON – SCHRAUBE	M6x20 UNI5739
16	8050.460.000	1	ANELLO TENUTA – OIL SEAL BAGUE D'ETANCHEITE' – SIMMERRING	40X80X8
17	8600.265.000	2	CUSCINETTO – BEARING ROULEMENT – LAGER	30208
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				



MISCELLANEOUS HYDRAULIC PARTS

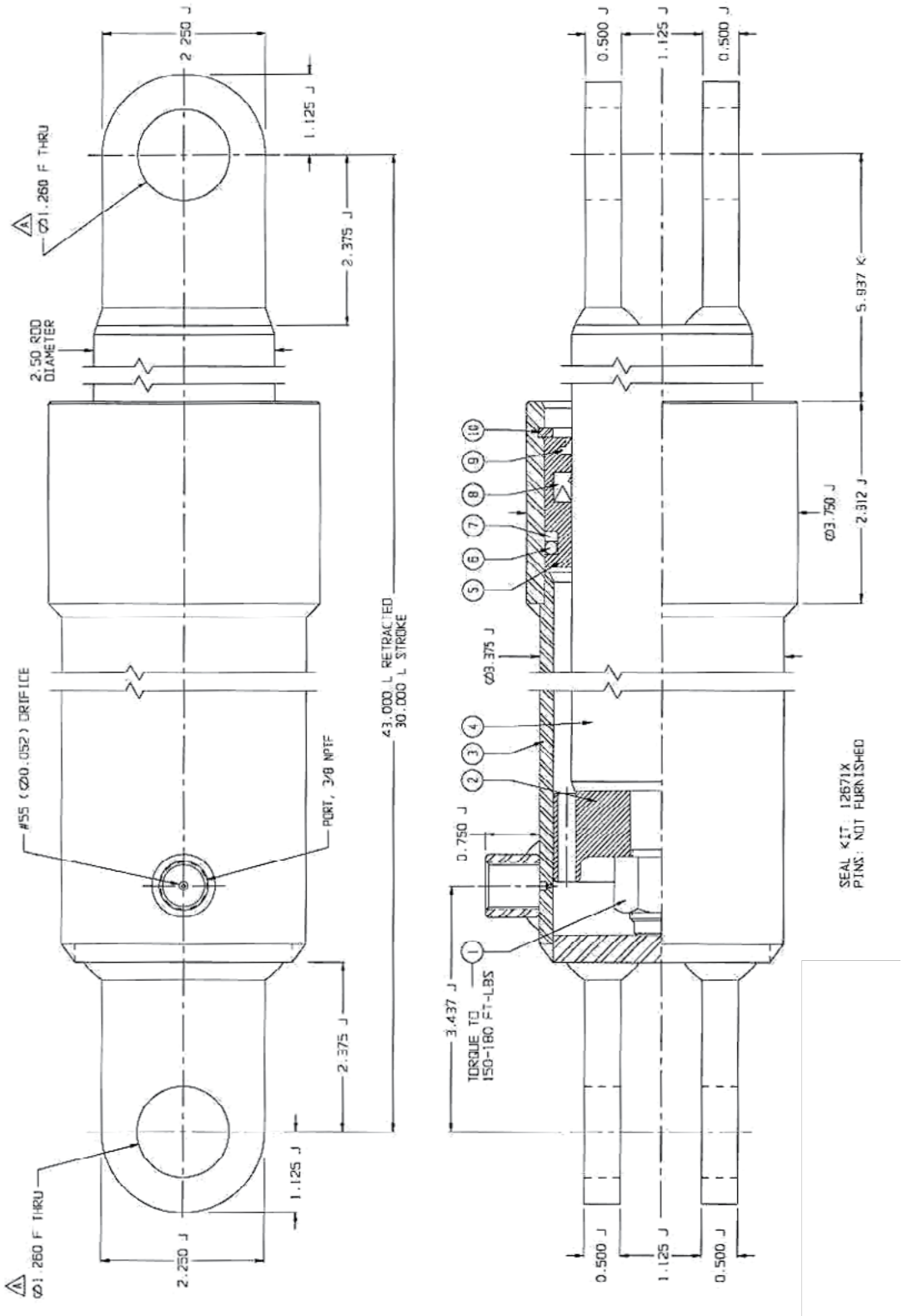



M 14006340, Drive Line
GH 16079, Pin 1 1/8”
GH 16076, Turn Buckle


GH 12655, Heat Exchanger
GL 12575, Cap, vented
GH 12645, Valve Assembly
GL 12580, Screen
G 1071, Sight Glass
GH 11604, Filter Head
GO 13061, Strainer
B 839-10, Filter

BOOM LIFT CYLINDER

GH 11304



BOOM LIFT CYLINDER CONTINUED

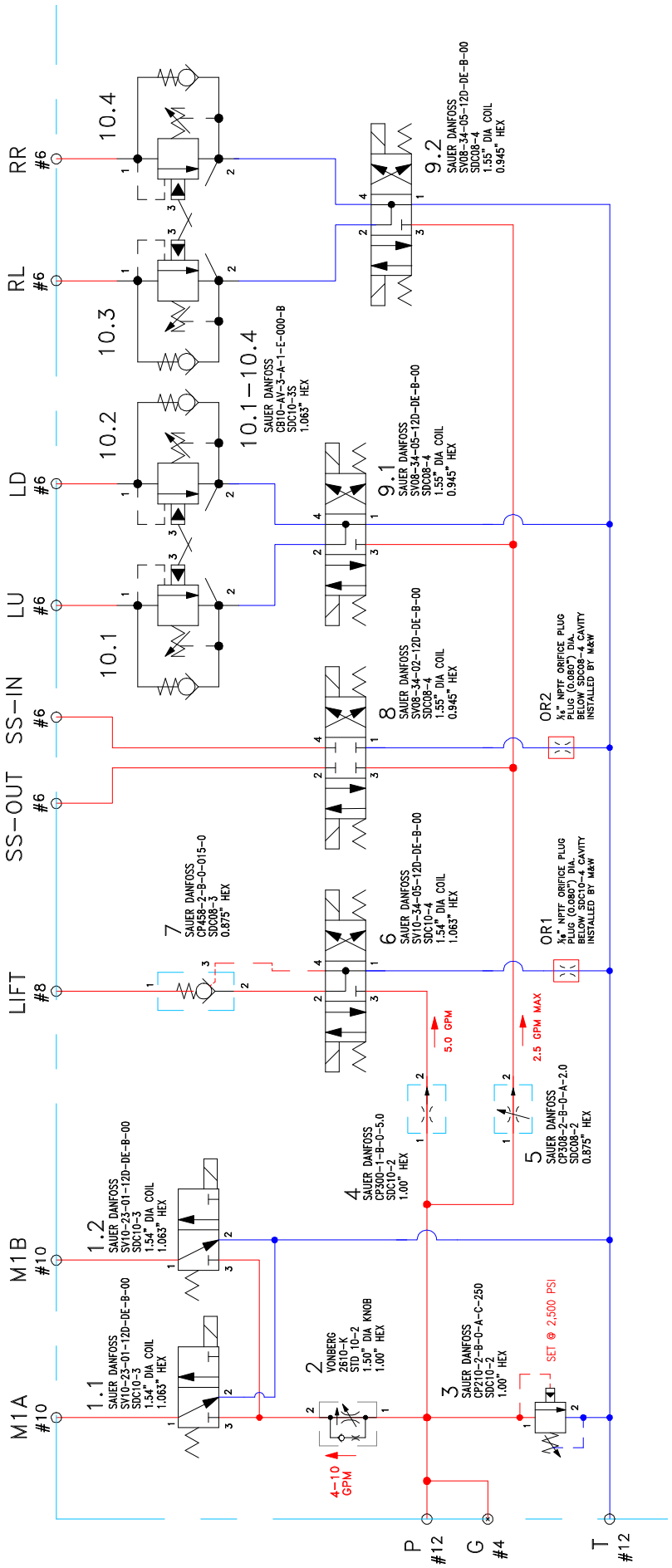
GH 11304 (17298C) Boom Lift Cylinder

Drawing #:	Part #:	Description:	Qty.:
	00080647	Plug Stl Pipe	1
	GH 11930	Seal Kit 2.5 Ram 12671X	1
	14264X	Primer (Red)	2.9 oz
1	00082464	Lock Nut, 7/8-14	1
2	005446	Piston - 3.00 OD	1
3	17378C	Cyl Body - 3in ID	1
4	17381B	Ram 2.5 w/c	1
5	11194B	Guide 3.25 OD - 2.5 ID	1
6	00080342	Oring N 2.875 x 3.25	1
7	00083241	Backup Ring H 2.875 x 3.25	1
8	ES0030/2530	U cup Lip 2.50 x 3.00 x 0.375	1
9	00080752	Wiper Ring 2.500 AN Series	1
10	00080724	Ret. Ring Int 3.250 RRT	1

MANIFOLD ASSEMBLY

GH 12645

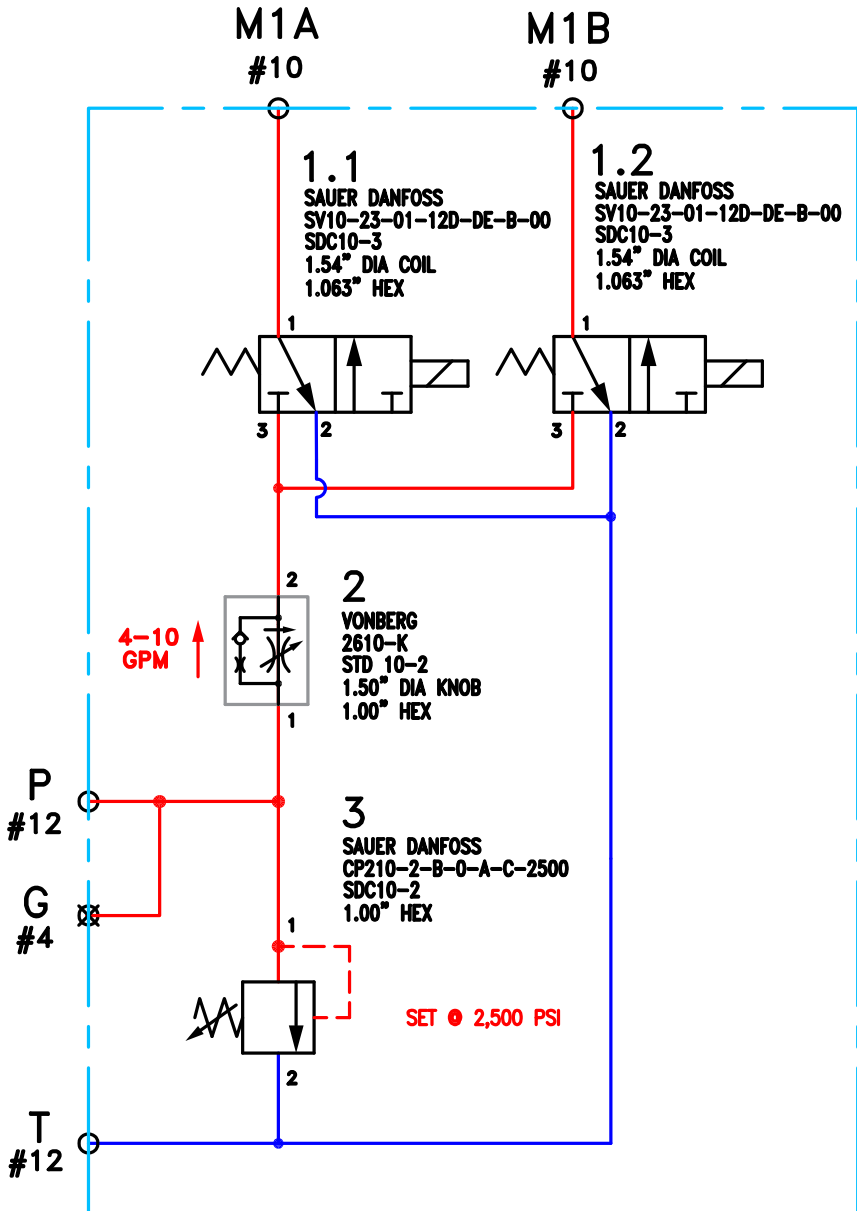
#	Qty.	Part Number	Description	Seal Kit	Coil	Nut
1	2	GH 12725	3 way sol.	354000210	17114931	17400021
2	1	GH 12730	flow reg.			
3	1	GH 12735	relief cart.	120015		
4	1	GO 13142	flow reg.	120015		
5	1	GH 12740	flow reg.	120221		
6	1	GH 12745	4 way sol.	354001919	17114931	17400031
7	1	GH 12750	Cartridge, PO Check	120250		
8	1	GH 12755	3 pos 4 way	354003319	17114131	17400011
9	2	GH 12760	3 pos 4 way	354003319	17114131	17400011
10	4	GO 13450	c.b. valve			



MANIFOLD, SINGLE HEAD

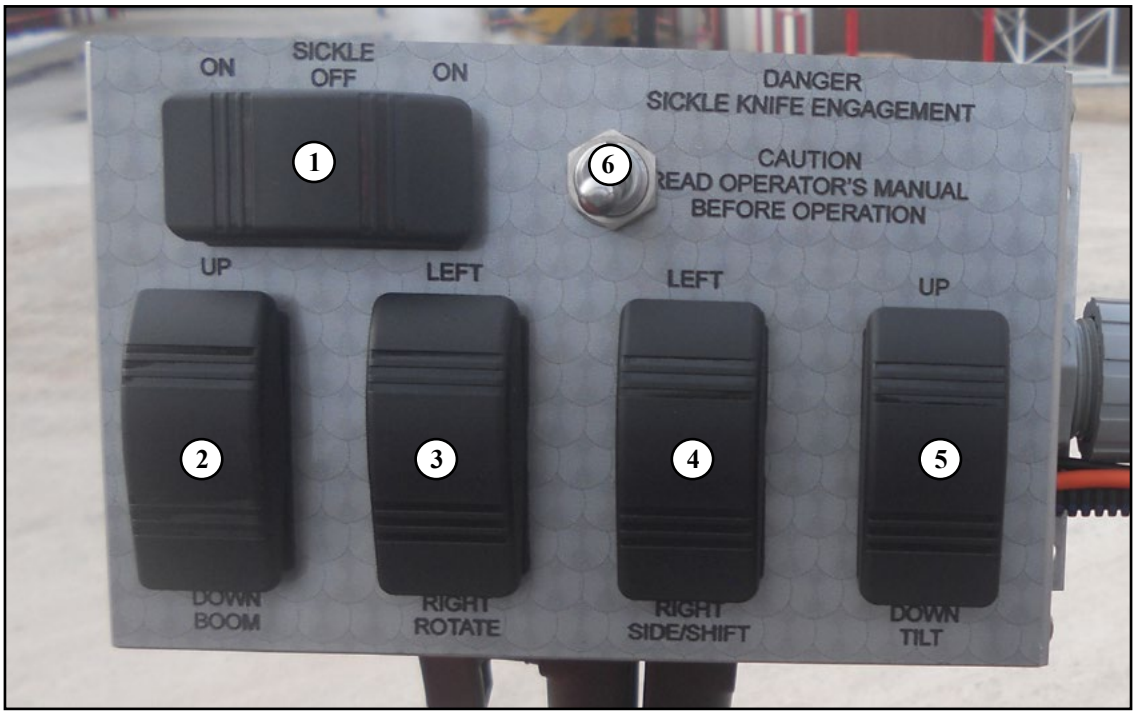
GH 12640

#	Qty.	Part Number	Description
1	2	GH 12725	3 way sol.
2	1	GH 12730	flow reg.
3	1	GH 12735	relief cart.



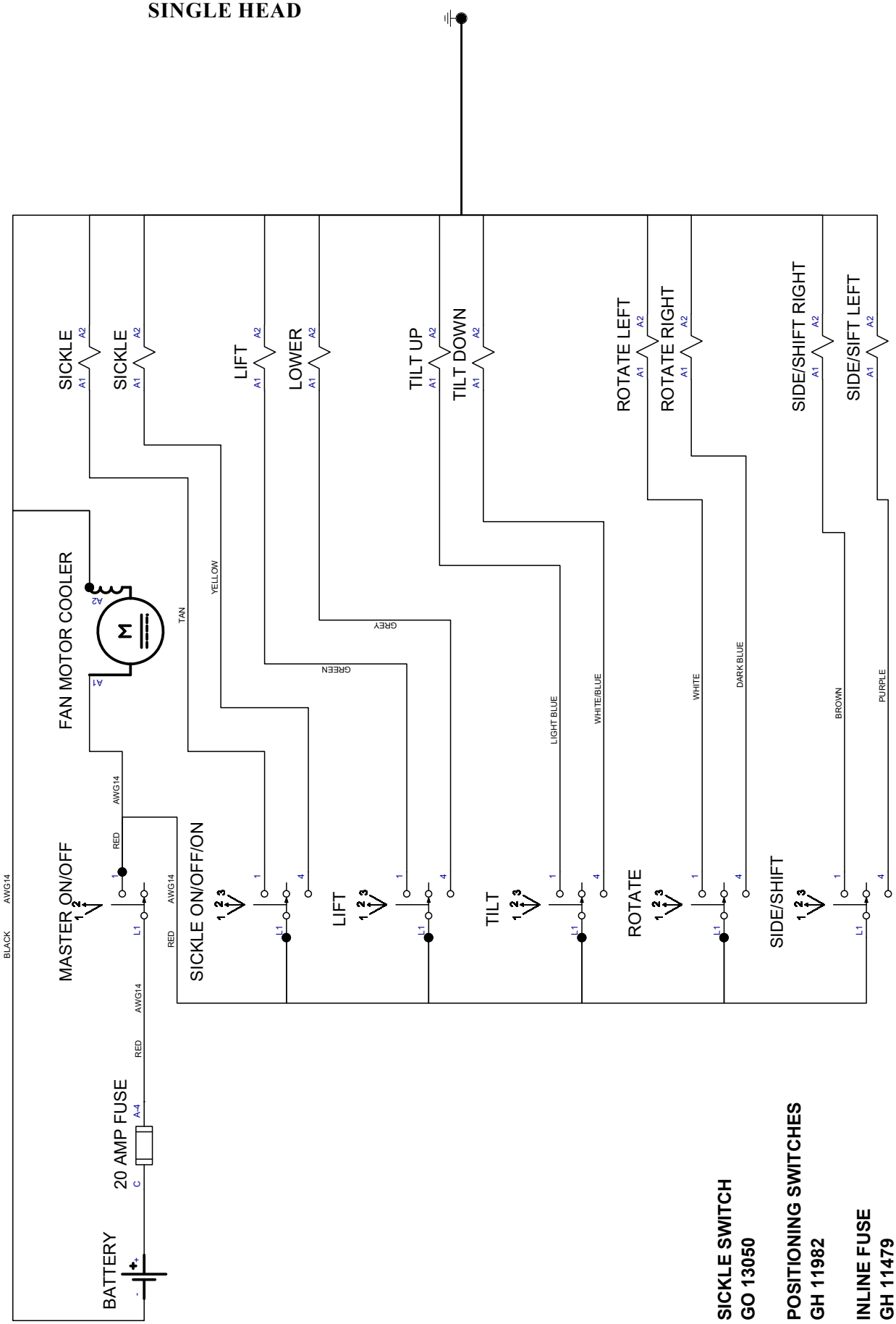
CONTROL BOX

# in Diagram	Part Number	Item Description	Qty.
	GH 11962	**Assy. Control Box & Harness (std. hedger)**	1
1	GO 13050	Switch, Head Motor, V61D1D	1
	GH 11984	Machine Screw, 6-32 X ¼" SS Slotted	8
	GH 11979	Label, Hedger Control Boxes	1
	GH 11980	Harness, Hedger (for control box)	1
	GH 11981	Encloser, Formed (hedger control boxes)	1
2,3,4,5	GH 11982	Switch, Momentary V8D1S	4
6	GSS 10485	Switch, Toggle	1
	GH 11983	Bushing, Strain Relief 7/8" Heyco	1
	GTS 11070	Strain Relief Connector	1



Control Box Diagram

SINGLE HEAD



SICKLE SWITCH
GO 13050

POSITIONING SWITCHES
GH 11982

INLINE FUSE
GH 11479

MASTER ON/OFF SWITCH
GSS 10485

HEDGER ACCESSORY KIT

Part number: GH 11937

Kit includes:

Quantity	Part Number	Item Description
3	GH 11348	Knife, 3/16
6	N 4297	3/8-24 x 5/8 FHCS Torx Plus
1	GH 11855	Torx Drive
1	SP 7008	Adhesive/Sealant 271

G V F WARRANTY

Gillison's Variety Fabrication, Inc. will replace or repair at GVF/Gillison's option, any GVF/Gillison's manufactured item that is, in the opinion of GVF/Gillison's, defective in material or workmanship for a period of 1 year or 1,000 hours, whichever comes first, from the date of purchase, and is returned to the GVF/Gillison's plant or service center at the expense of the customer. This warranty is made expressly in lieu of all other warranties expressed or implied. **The Warranty Registration card must be completed in full and returned to GVF/Gillison's within thirty (30) days of date of delivery to qualify for this warranty.**

The owner is specifically responsible for the operation and service of the machine. This warranty shall not apply to any product that has been subject to misuse, negligence or accident. In the event of a defect in material or workmanship, GVF/Gillison's sole responsibility is to the repair or replacement of the defective part and is not responsible for lost time or any other expenses incurred due to lost time.

All OEM items such as Tires, Batteries, Engines and Hydraulic components are warranted by the original equipment manufacturer. GVF/Gillison's controls the installation of these products but not the manufacture; therefore, GVF/Gillison's warranty applies to the proper installation but not the OEM component itself.

Retail Customer Responsibility: It is the Retail Customer and/or Operator's responsibility to read the Operator's Manual to operate, lubricate, maintain, and store the product in accordance with all instructions and safety procedures. Failure of the operator to read the Operator's Manual is misuse of this equipment. It is the Retail Customer and/or Operator's responsibility to inspect the product and to have any part(s) repaired or replaced when continued operation would cause damage or excessive wear to other parts or cause a safety hazard.

It is the Retail Customer's responsibility to deliver the product to the authorized GVF/Gillison's dealer, from whom he purchased it, for service or replacement of defective parts, which are covered by warranty. Repairs to be submitted for warranty consideration must be made within 45 days of failure. The Retail Customer is responsible for any cost incurred by the Dealer for traveling to or hauling of the product for the purpose of performing a warranty obligation or inspection.