

The HELLE Scragg



Equipment may vary from what is pictured.

PARTS MANUAL

HELLE Sawmill Equipment

Mfg. by Sawmill Hydraulics, Inc.

1-800-245-2448

www.4HELLE.com

THANK YOUR FOR PURCHASING A HELLE SCRAGG!

Enclosed in this manual you will find many of the parts available for your scragg. Not all parts are listed in this manual. If you don't see your part or a similar part, PLEASE call the factory. We have many parts that are not listed here. We will gladly work with you to find the part you need. Most of the parts on your HELLE scragg are stocked by Sawmill Hydraulics, and we can them have in your hands the next day.

COMMONLY ASKED QUESTIONS:

How often should I grease everything?

This should be done daily except bearings which should be done monthly.

What should the pressure on the carriage be?

The gauge should read around 1,000 PSI. Anything Higher then 1200 and you'll void the warranty and cause premature failure of parts and inaccurate sets.

What kind of oil should I use?

Check with your local route person for a good grade of hydraulic oil.

How often should I change the filters.

We recommend you change the filters every 3 months.

How tight should I keep the chains on the husk?

You should keep the chains tight, about the tightness of a banjo string. Note: you can over tighten them, this will cause the chains to break. If they are too loose the setworks will be inaccurate.

Can you come out into my place to do repairs?

Yes, we are here to serve you. Call us today at 1-800-245-2448

Who do I call if I have problems?

You can call us directly at 1-800-245-2448, even if you purchased your HELLE equipment through someone else.

Open the lid of the control box, before you call. There are indicator lights and little relays that go “click” that tell us a lot. Look for anything odd or out of place. We once had a customer call with problems, only to find out that when he opened the lid of his box that someone had removed a part. He replaced it and things worked just fine.

Please feel free to call us at 1-800-245-2448, But before you call the factory:

Good communication is the key to successful telephone troubleshooting. In different regions of the country, different terms are often employed for the same item. We offer the following list to guide you thru the troubleshooting procedure:

Set: Pushing the button that moves the husk automatically for a selected thickness.

Receed: To open the husks up.

Jog: To move the husk forward at full speed.

Valve: The device that has the hoses going to it and is connected to the electrical system located on the back of your scragg.

Relays:

On the computer systems this is a little black square with a red light on it in the control box.

Cylinder: Most people know what this is but we have had customers use such terms as “ram”, “jack” or “rod”.

Finally we offer these points based upon past experience:

Let us talk to the operator or maintenance man. Though we enjoy talking to our customers effective troubleshooting is best achieved if we talk with the person running the machinery when it quits or the maintenance person. This will simplify troubleshooting and shorten down time.

Cellular or cordless phones can be a wonderful tool. We have solved problems in the past by listening to what is happening. Not to mention it eliminates "I'll run over and check and call you back".

Tell us everything.

We drove 300 miles once and could feel the heat from the tank when we got 10 feet away. "Didn't I tell you it was getting hot?" When on the phone we are depending on you to be our eyes. If you see something wrong or odd, please tell us.

Tell us that you changed a valve. We have had multiple cases of dual problems. The first one was simple, the second one was masked by installing a defective part. This is a real troubleshooting nightmare.

If at all possible when replacing parts, please use new parts that you are sure are in good working order. Many times a customer has told us that they replaced a valve with a new valve. Only to find out that someone else had used it on another machine and not told anyone, or that it was a rebuilt valve bought at an auction.

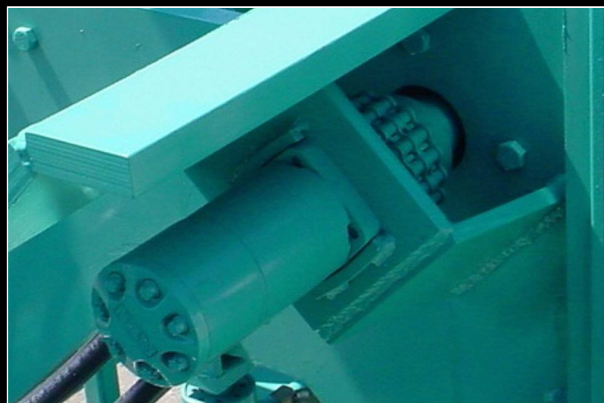
We have had cases of driving all day only to find that someone had screwed a pressure control all the way one direction or wired a switch backwards. "Nobody here touched that." (Employees don't want the boss to get down on them.) We need to know everything.

And last but not least:

Don't accept substandard performance. If the machinery has something that doesn't work, we encourage you to call it to our attention, don't just live with it. Often times the cure is very simple. We had a case where a customer wasn't tapering his logs because someone had installed the wrong kind of toggle switch. His sawyer just accepted that because "it had been like that since I started here."

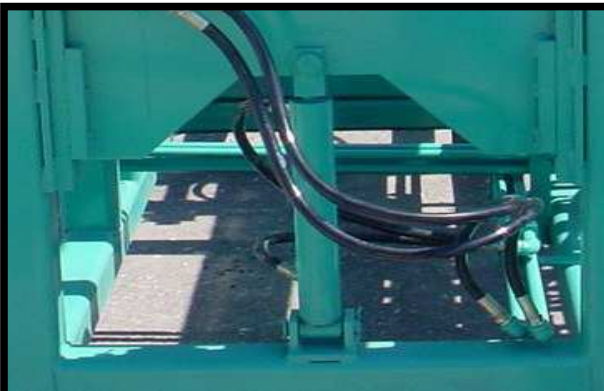
Your HELLE equipment is capable of providing years of service cutting accurate lumber. Communication is the key to keeping it that way. Thank you for taking the time to read this and for purchasing HELLE equipment.

LOG CRADLE PARTS



HYDRAULIC DRIVE

	PART #
HYDRAULIC MOTOR	20-B-040
MOTOR COUPLING HUB	06-E-010B
SHAFT COUPLING HUB	06-E-010H
CHAIN COUPLER	06-B-010



LIFT CYLINDER

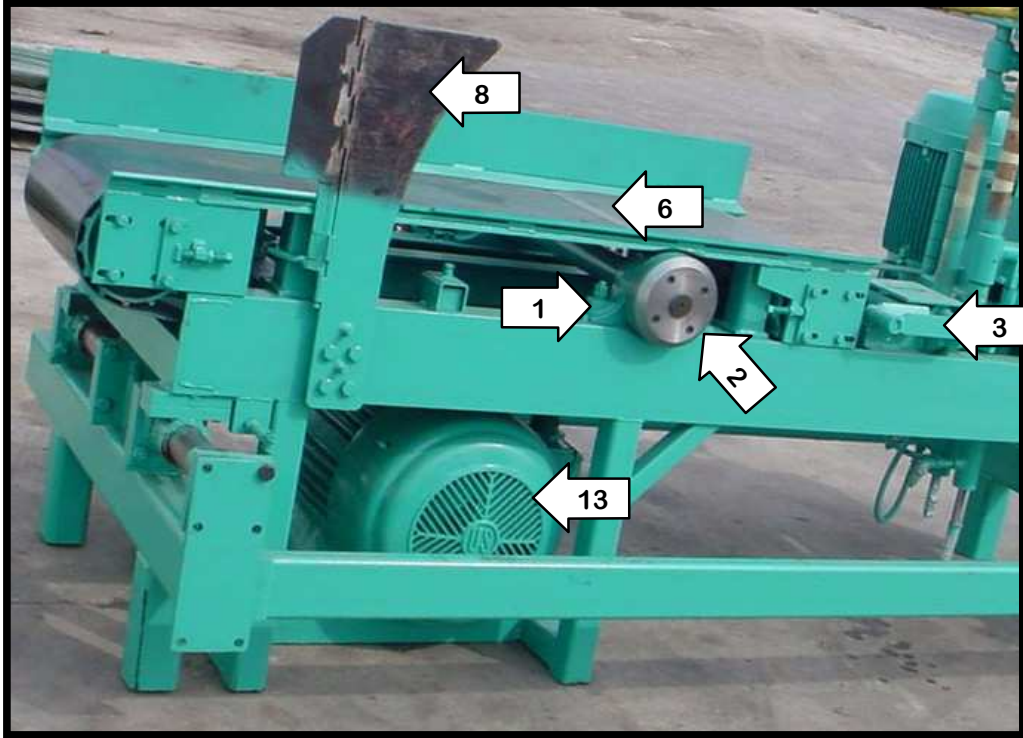
	PART #
COMPLETE CYLINDER	07-C-021
ROD & CLEVIS ONLY	07-D-021
CYLINDER BARREL ONLY	07-D-135
SEAL KIT	24-E-010



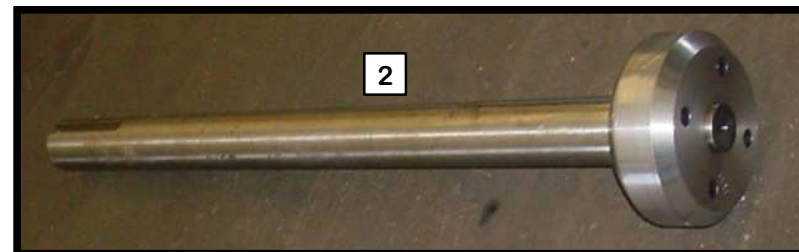
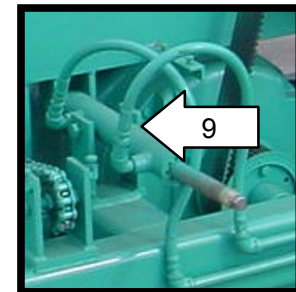
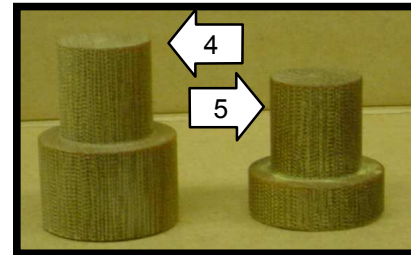
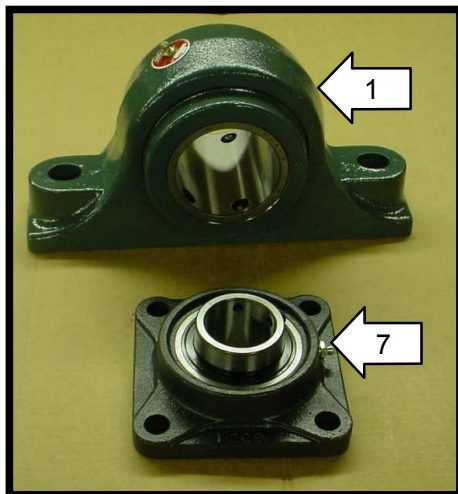
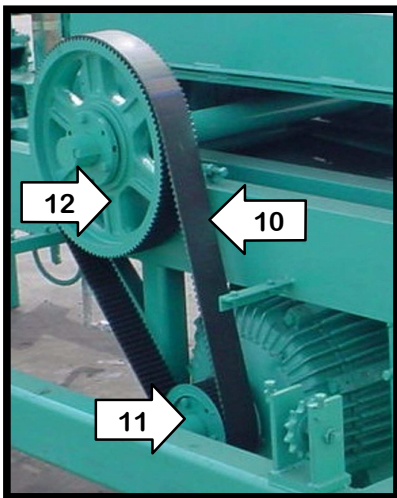
SPINNERS (DOUBLE SPROCKET SHOWN)

	PART #
SPINNER SPROCKET	28-A-333
SPROCKET HUB	03-A-060H
FLANGE BEARING	01-A-068
PILLOW BLOCK BEARING	01-D-235
DRIVER SHAFT (SINGLE SPROCKET)	26-B-056
IDLER SHAFT (SINGLE SPROCKET)	26-B-055
DRIVER SHAFT (DOUBLE SPROCKET)	26-B-058
IDLER SHAFT (DOUBLE SPROCKET)	26-B-057

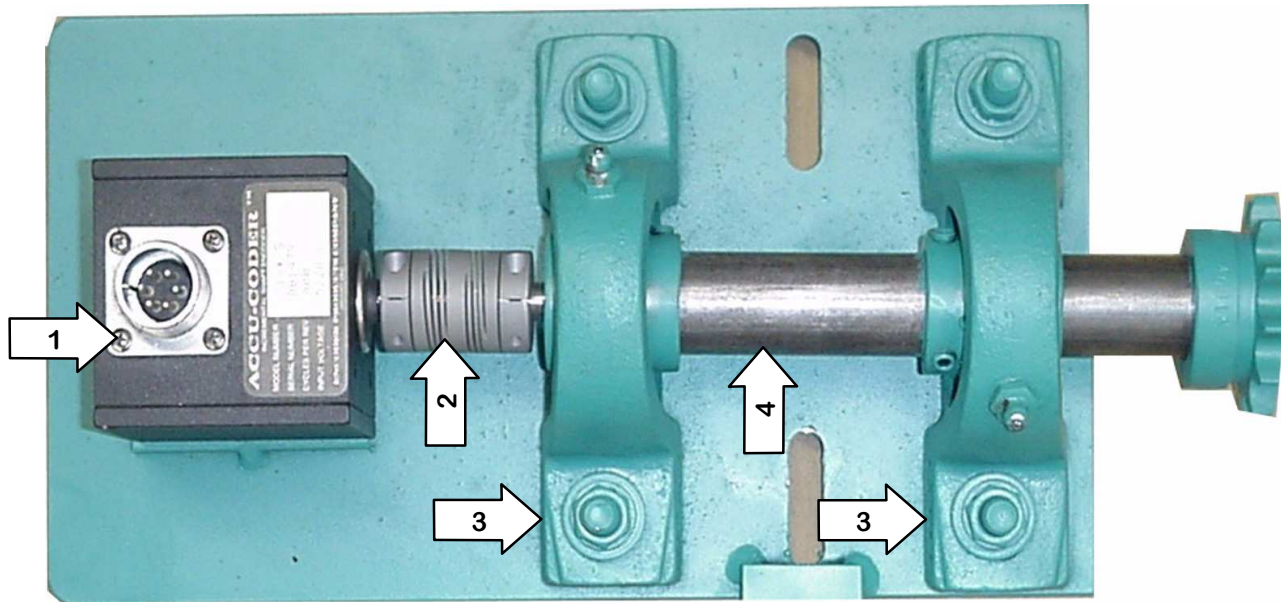
HUSKS PART



		PART #
1	MANDREL BEARING	01-D-270
2	MANDREL	18-A-030
3	SAWGUIDE RIGHT HAND	19-A-504
3	SAWGUIDE LEFT HAND	19-A-503
4	INNER SAWGUIDE PIN	19-A-030
5	OUTER SAWGUIDE PIN	19-A-030S
6	HUSK 20" WIDE BELT	02-A-110
6	BELT LACING	02-C-005
7	OFFBEARER BEARING	01-A-085
8	SPLITER BLADE	19-B-010
9	SHIFTING CYCLINDER	CYL-HSKAC
10	DRIVE BELT	02-B-063
11	100 HP MOTOR BUSHING	03-A-034G
11	100 HP MOTOR PULLEY	36-A-084
12	MANDREL BUSHING	03-A-035
12	MANDREL PULLEY	36-A-044
13	100 HP MOTOR	20-A-023



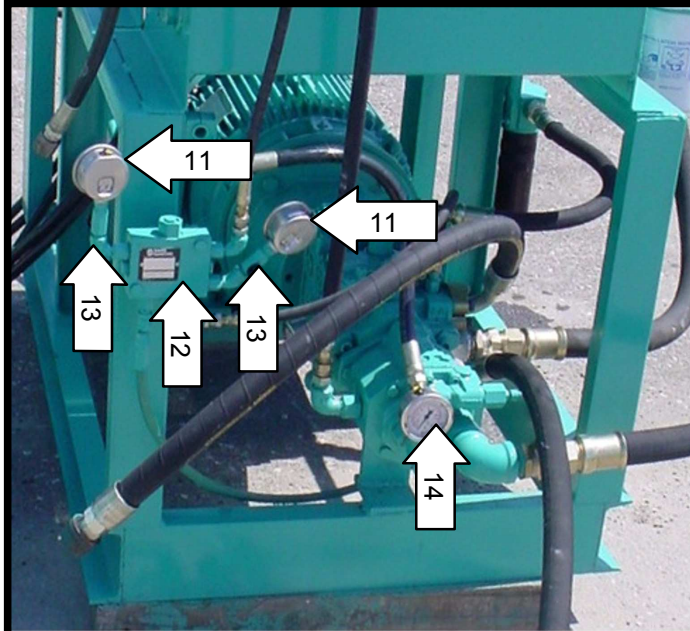
ENCODER DRIVE



		PART #
1	ENCODER	08-E-011A
2	COUPLING	06-C-045
3	BEARING	01-D-015
4	SHAFT WITH WELDED SPROCKET	

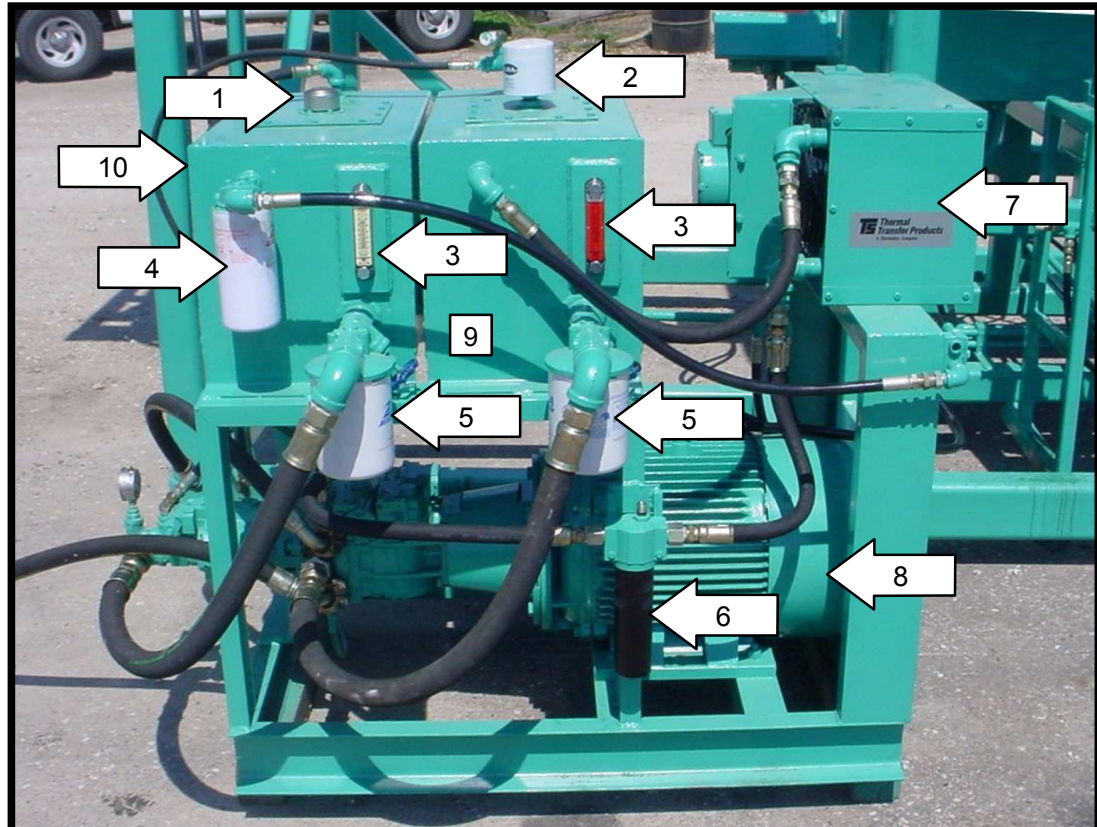
40 HP PUMP PARTS

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PUMP REAR VIEW

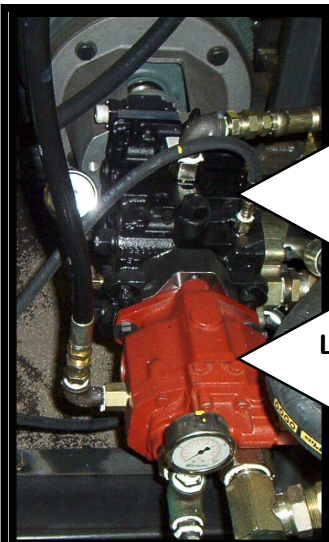
		PART #
11	PRESSURE GAUGE	11-A-038
12	LOOP FLUSH VALVE	31-D-005
13	GAUGE SNUBBER	11-A-050
14	2000 PSI GAUGE	11-A-037



		PART #
1	FILLER CAP (LOG TURNER TANK)	11-A-005
2	FILLER CAP (FEED TANK)	11-A-008
3	SIGHT GAUGE (EITHER TANK)	11-A-031
4	RETURN FILTER (LOG TURNER TANK)	10-A-100
4	RETURN FILTER HEAD (LOG TURNER TANK)	10-A-080
5	SUCTION FILTER (EITHER TANK)	10-A-095
5	SUCTION FILTER HEAD (EITHER TANK)	10-A-090
6	RETURN FILTER ELEMENT (FEED TANK)	10-A-072
6	RETURN COMPLETE FILTER ASSEMBLY W/ FILTER	10-A-075
7	COOLER COMPLETE	30-A-020
7	COOLER MOTOR ONLY	20-A-094
8	40 HP MOTOR	20-A-032
9	FEED WORKS TANK	11-A-008
10	LOG TURNER TANK	11-A-005

40 HP PUMP PARTS

Page 2 of 2



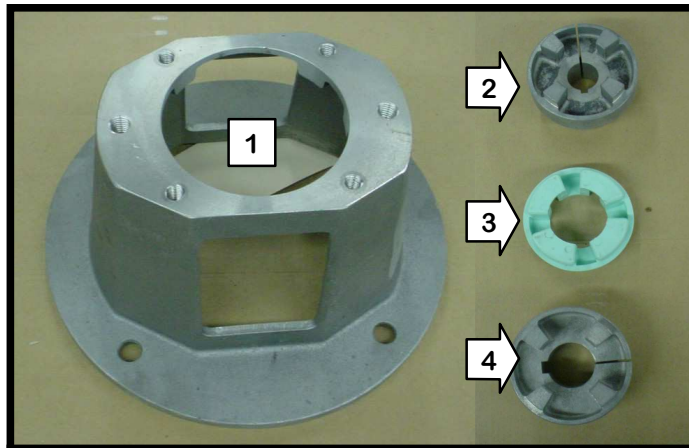
FEED PUMP
PART # 22-B-008

LOG TURNER PUMP*
PART # 22-B-035

*** THIS PUMP REQUIRES A O-RING (PART # 24-C-285) TO GO BETWEEN BOTH PUMPS THE LOG TURNER PUMP USES THE SAME SEALKIT AS CARRIAGE PUMP: REFER TO CARRIAGE PARTS FOR MORE INFO**

!!IMPORTANT!!

Your pump is made of aluminum. The case drain thread is rather fragile. **DO NOT GET BRAVE.** Just tighten kind of snug, and hold it there while you hook the hose, swivel, or whatever to this fitting. If you get too brave, you will strip out the thread.



FEEDWORKS PUMP MOUNTING AND COUPLING

		PART #
1	PUMP TO MOTOR ADAPTOR	21-L-030
2	COUPLING HUB (PUMP)	06-E-077C
3	COUPLING INSERT	06-F-005
4	COUPLING HUB (MOTOR)	06-E-079



FEEDWORKS JOYSTICK

	PART #
CONTROLLER	08-D-043
POWER SUPPLY	21-L-041
POTENTIOMETER	08-E-715

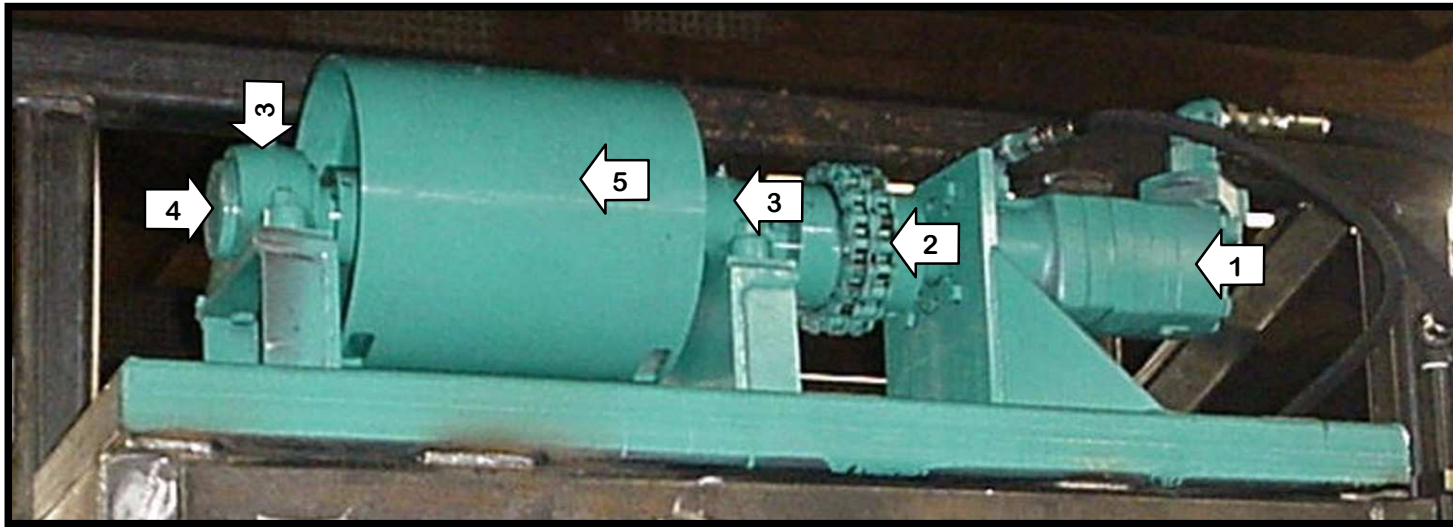


Joystick
PART# 08-E-602F



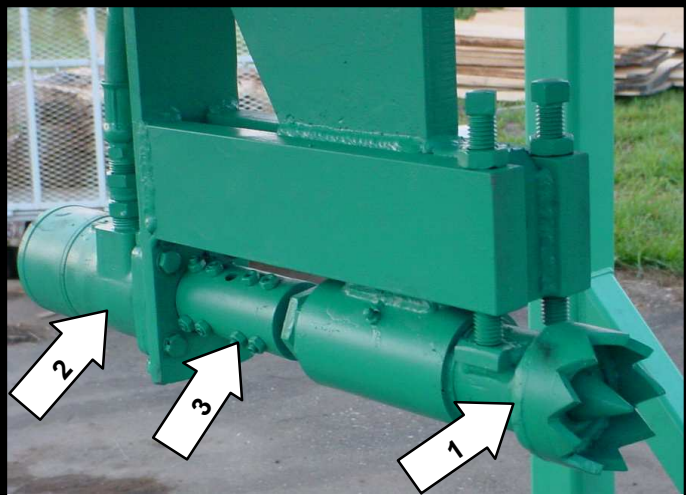
Foot Pedal
Model #08-E-706

FEED DRUM ASSEMBLY



		PART #
1	HYDRAULIC MOTOR	20-B-135
2	COUPLING HUB (SPECIF MOTOR OR DRUM SIDE)	06-E-040
2	COUPLING	06-B-040
3	BEARING	01-D-255
4	DRUM SHAFT (INCLUDES KEYS)	26-B-041
5	DRUM (DOESN'T INCLUDE SHAFT)	09-A-025

ROTARY DOG PARTS



ROTARY DOG - DRIVE

		PART #
1	ROTARY DOG - DRIVE SIDE	RD-S-001D
2	HYDRAULIC MOTOR	20-B-040
3	STEEL COUPLER	06-B-055

NOTE:

ROTARY DOG PART # RD-S-001D INCLUDES THE STEEL COUPLER PART # 06-B-055S, BUT DOESN'T INCLUDE MOTOR



**ROTARY DOG - IDLER
PART # RD-S-001**

NOTE:

DOG CYLINDER LENGTHS ARE REGULATED BY DOG OPENING. PLEASE CONSULT FACTORY FOR YOUR SPECIFIC MACHINE.

ALL CYLINDERS ARE AVIALABLE AS A COMPLETE UNIT OR JUST THE BARREL OR ROD AND CLEVIS.

SEAL KITS ARE ALSO AVIALBE, PLEASE SEE PAGE LABELED: DOG OPEN/CLOSE 2-1/2" CYLINDER

CARRIAGE PARTS PUMPING UNIT PARTS



**SHUT-OFF
PART #
31-B-010**

****PUMP**

Seal Kits

If you have a Vickers Pump you need

Part # 24-E-155

If you have a Eaton Pump you need

Part # 24-E-575

Replacement Pump

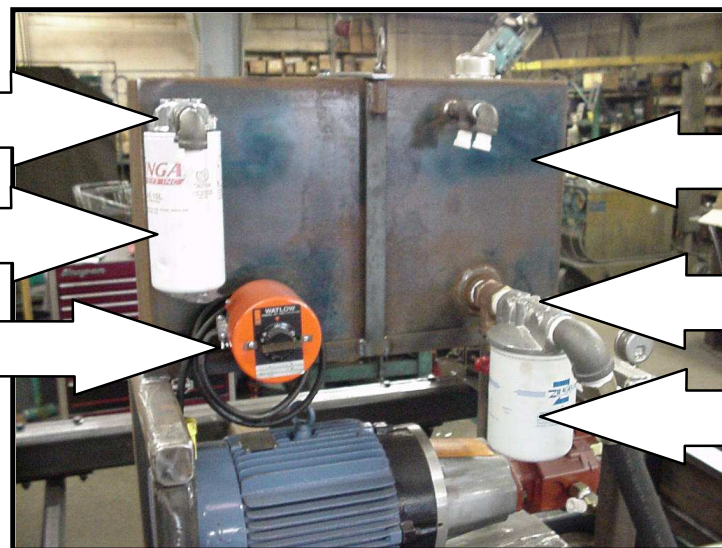
If you have a Vickers Pump and want to replace it with a Eaton you will need a new case drain(Part # 21-L-069)

How can I tell the difference?

The case drain on Vickers pump is located on the top and on the Eaton is located on the side.

!IMPORTANT!

Your pump is made of aluminum. The case drain thread is rather fragile. **DO NOT GET BRAVE.** Just tighten kind of snug, and hold it there while you hook the hose, swivel, or whatever to this fitting. If you get too brave, you will strip out the thread.



**FILTER HEAD
PART # 10-A-080**

**RETURN FILTER
PART # 10-A-100**

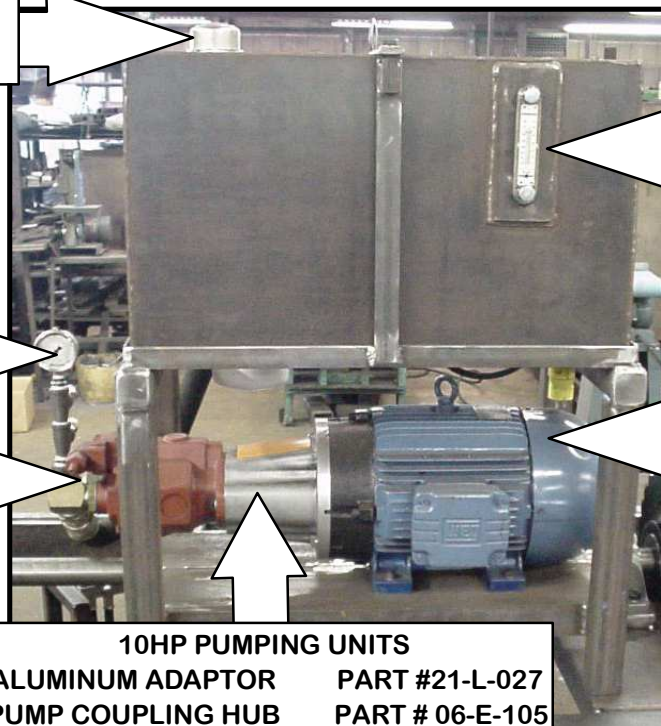
**HEATER
PART # 04-J-87A**

**TANK
PART # 04-F-015**

**FILTER HEAD
PART # 10-A-090**

**SUCTION FILTER
PART # 10-A-095**

**TANK CAP
PART #11-A-005**



**GLASS GAUGE
PART # 11-A-031**

**PRESSURE GAUGE
PART # 11-A-037**

PUMP
PART # 22-A-078**

**10 HP MOTOR
PART # 20-A-044**

10HP PUMPING UNITS

ALUMINUM ADAPTOR	PART #21-L-027
PUMP COUPLING HUB	PART # 06-E-105
MOTOR COUPLING HUB	PART # 06-E-110
COUPLING INSERT	PART # 06-E-115

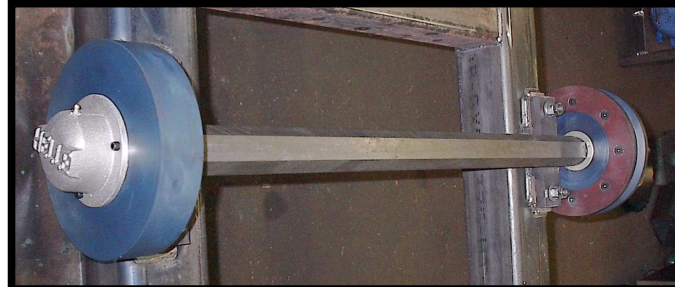
CARRIAGE PARTS

2" HEX AXLE

WHEEL AND AXLE PARTS



FLAT WHEEL
 PLASTIC PART #04-K-090P
 STEEL PART # 04-K-090



HEX AXLE
 PLEASE CALL THE FACTORY AT
 1-800-245-2448 TO ORDER. PLEASE
 HAVE RAIL GAUGE WHEN ORDERING.



GROOVED WHEEL
 PLASTIC PART # 04-K-075P
 STEEL PART #04-K-075



NUT
 PART #18-B-036



PIN
 PART # 06-B-316

OUTSIDE WHEEL PARTS



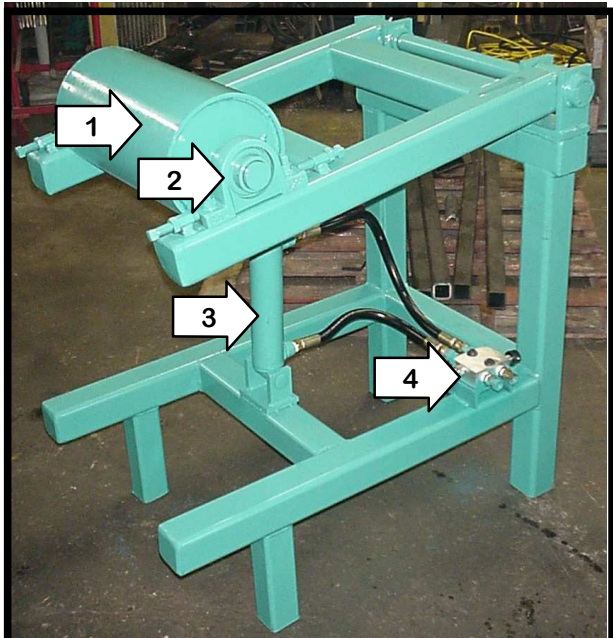
QTY	DESCRIPTION	PART #
3	BOLTS	NB-A-17A
1	HUB CAP	04-K-065
1	GASKET	24-B-026
1	BEARING	01-D-907
1	RACE	01-D-908

INSIDE WHEEL PARTS



QTY	DESCRIPTION	PART #
1	SEAL	24-F-106
1	BEARING	01-D-907
1	RACE	01-D-908

POP-UP ROLLER



**STANDARD SCRAGG
POP-UP ROLLER**

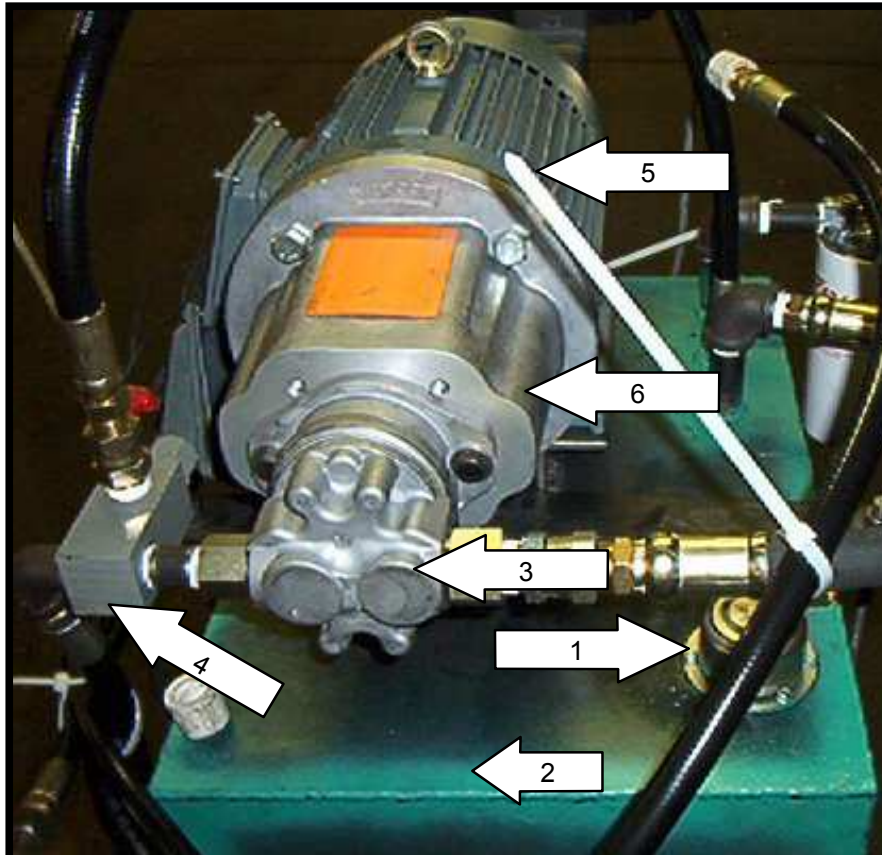
		PART #
1	ROLLER X 16"	RL-ER-165
1	ROLLER X 8"	RL-ER-156
2	BEARING	01-D-135
3	LIFT CYLINDER	07-C-075
4	CROSSOVER RELIEF	31-B-275



**SCRAGG W/ VERTICAL EDGER
POP-UP ROLLER**

		PART #
1	ROLLER	RL-ER-152
2	SET COLLAR	25-B-035
3	SPLIT COLLAR	25-B-036
4	BEARING (INSIDE ROLLER)	01-C-620
5	BUSHING (INSIDE PIVIT)	03-B-018
6	LIFT CYLINDER (NOT SHOWN)	07-C-075

VERTI-PAK AUXILIARY PUMPING UNITS



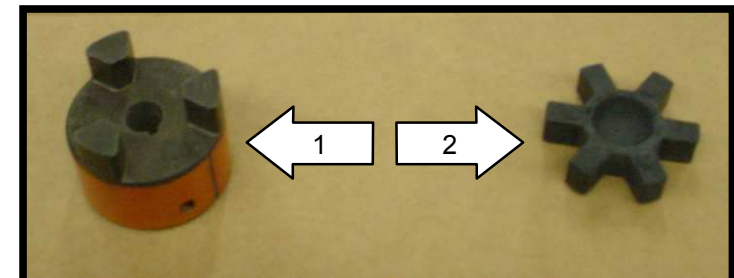
PUMPING UNIT

		PART #
1	FILLER CAP	11-A-005
2	TANK	TNK-VERT-HEL
3	PUMP	22-A-115
4	RELIEF VALVE	31-B-075
5	5 HP MOTOR	20-A-037
6	ALUMINUM ADAPTOR	21-L-044



RETURN FILTER

	PART #
FILTER ELEMENT	10-A-100
FILTER HEAD	10-A-080

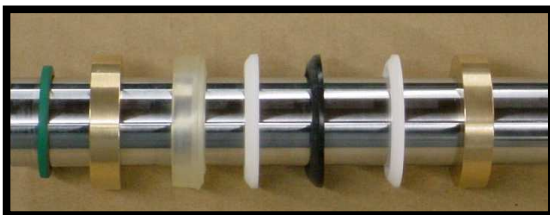
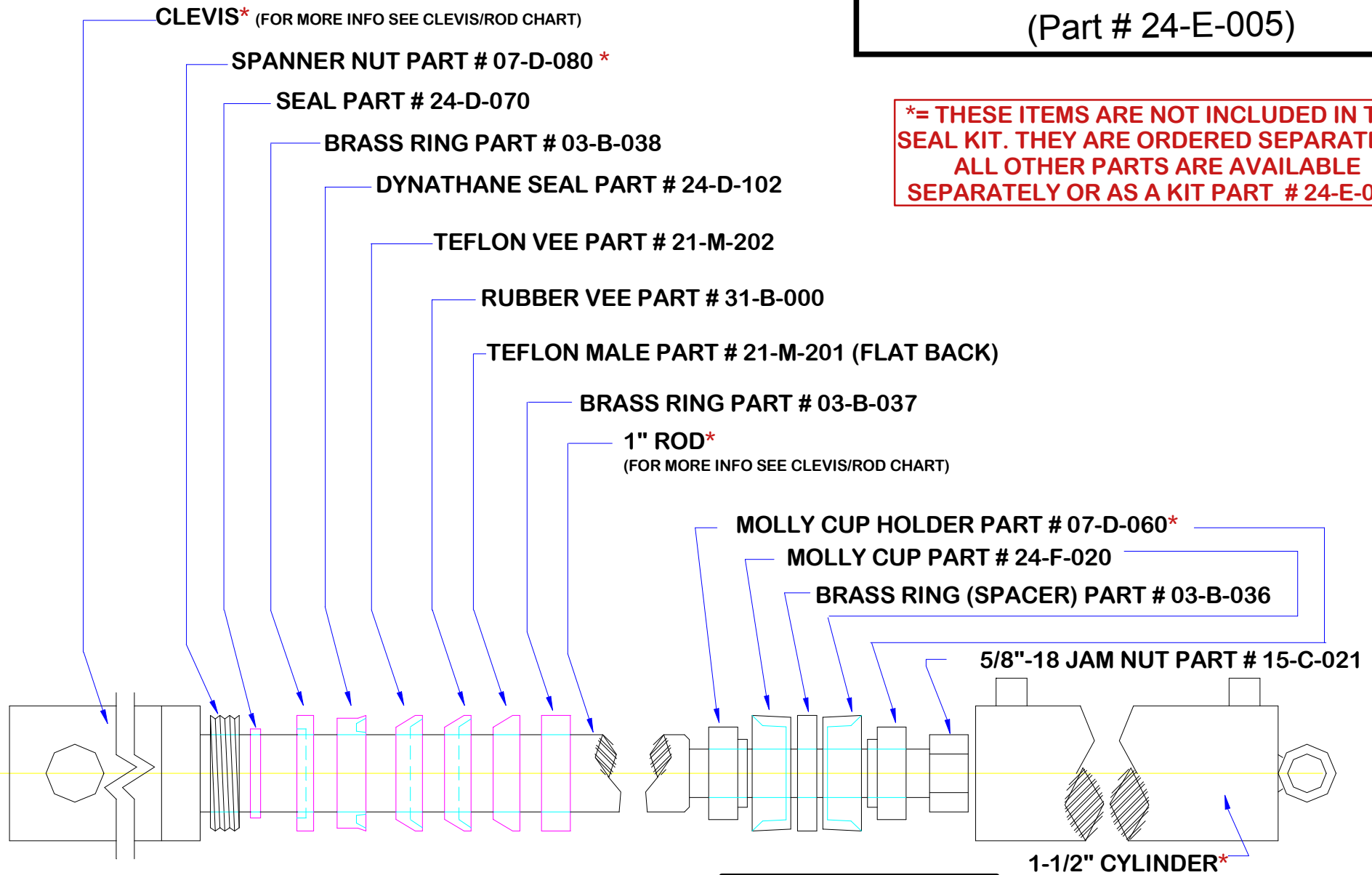


COUPLING PARTS

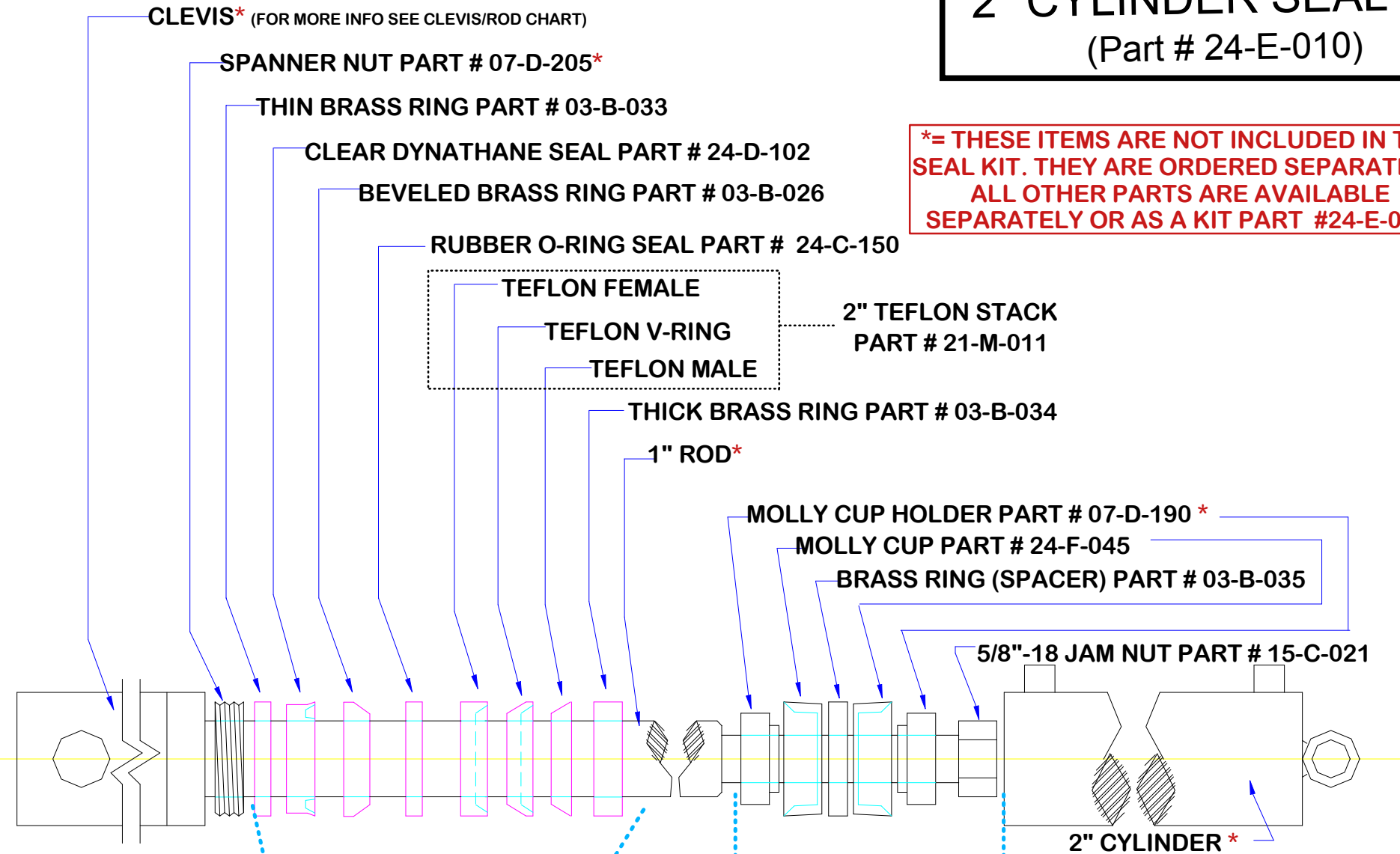
		PART #
1	COUPLING MOTOR SIDE	06-B-079
1	COUPLING PUMP SIDE	06-B-083
2	COUPLING INSERT	06-F-039

1-1/2" CYLINDER SEAL KIT (Part # 24-E-005)

***= THESE ITEMS ARE NOT INCLUDED IN THE SEAL KIT. THEY ARE ORDERED SEPARATELY. ALL OTHER PARTS ARE AVAILABLE SEPARATELY OR AS A KIT PART # 24-E-005.**



2" CYLINDER SEAL KIT (Part # 24-E-010)



***= THESE ITEMS ARE NOT INCLUDED IN THE SEAL KIT. THEY ARE ORDERED SEPARATELY. ALL OTHER PARTS ARE AVAILABLE SEPARATELY OR AS A KIT PART #24-E-010.**



2" CYLINDER	COMPLETE	CLEVIS & ROD
4" TAPER	07-C-070	07-D-155
8" TAPER	07-C-075	07-D-165
10" FLIPPER	07-C-015	07-D-130
12" FLIPPER	07-C-020	07-D-140
HAMMER DOG	07-C-021	07-D-021

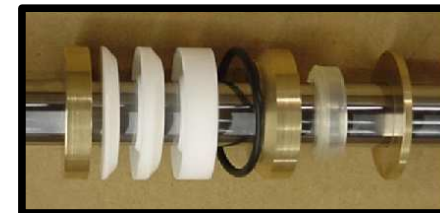
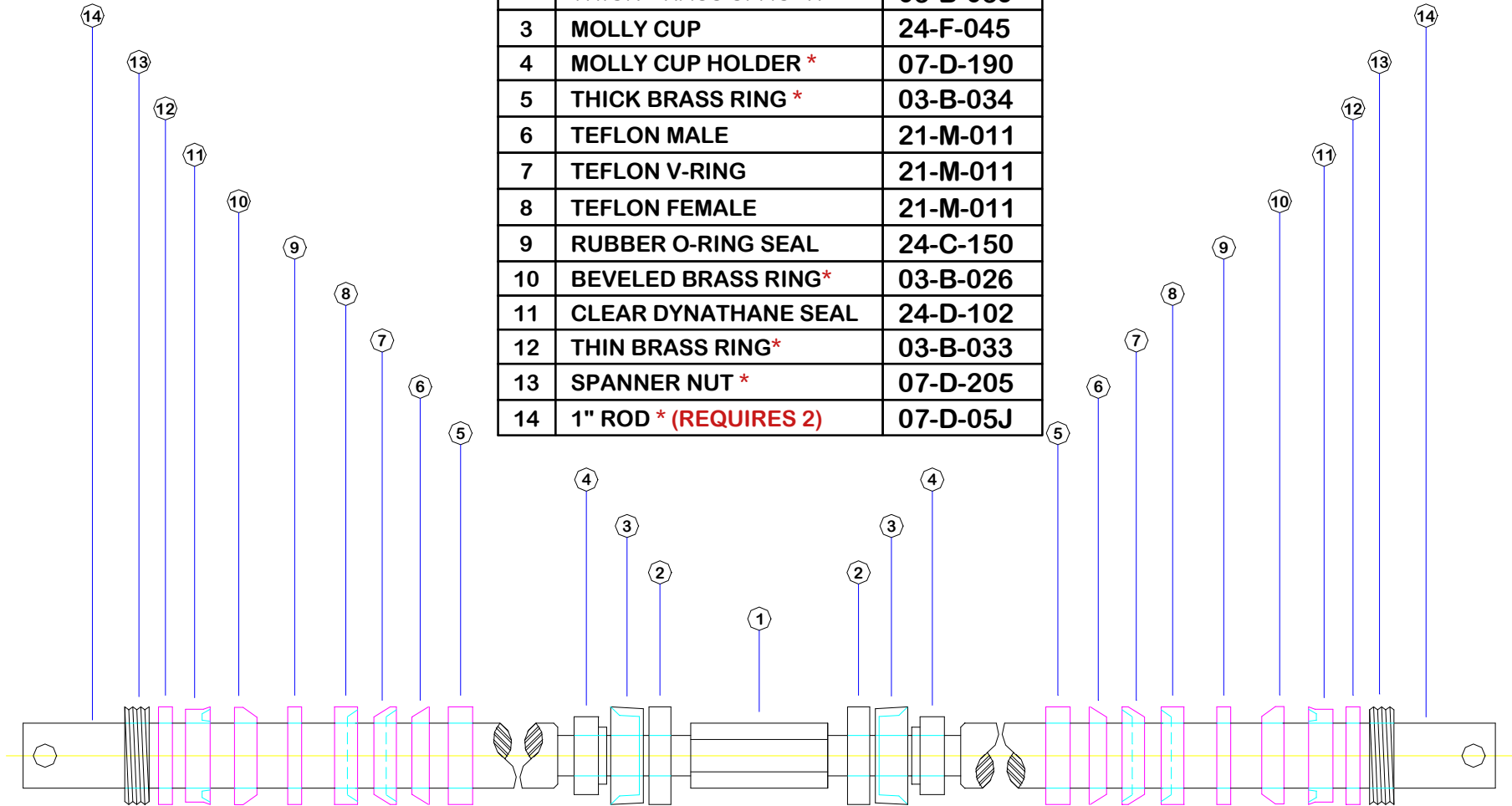
2" DOUBLE ROD CYLINDER SEAL KIT

(Part # 24-E-013)

***= THESE ITEMS ARE NOT INCLUDED IN THE SEAL KIT. THEY ARE ORDERED SEPARATELY. ALL OTHER PARTS ARE AVAILABLE SEPARATELY OR AS A KIT PART #24-E-013**

		PART #
1	NUT*	NB-B-043
2	THICK BRASS SPACER*	03-B-039
3	MOLLY CUP	24-F-045
4	MOLLY CUP HOLDER *	07-D-190
5	THICK BRASS RING *	03-B-034
6	TEFLON MALE	21-M-011
7	TEFLON V-RING	21-M-011
8	TEFLON FEMALE	21-M-011
9	RUBBER O-RING SEAL	24-C-150
10	BEVELED BRASS RING*	03-B-026
11	CLEAR DYNATHANE SEAL	24-D-102
12	THIN BRASS RING*	03-B-033
13	SPANNER NUT *	07-D-205
14	1" ROD * (REQUIRES 2)	07-D-05J

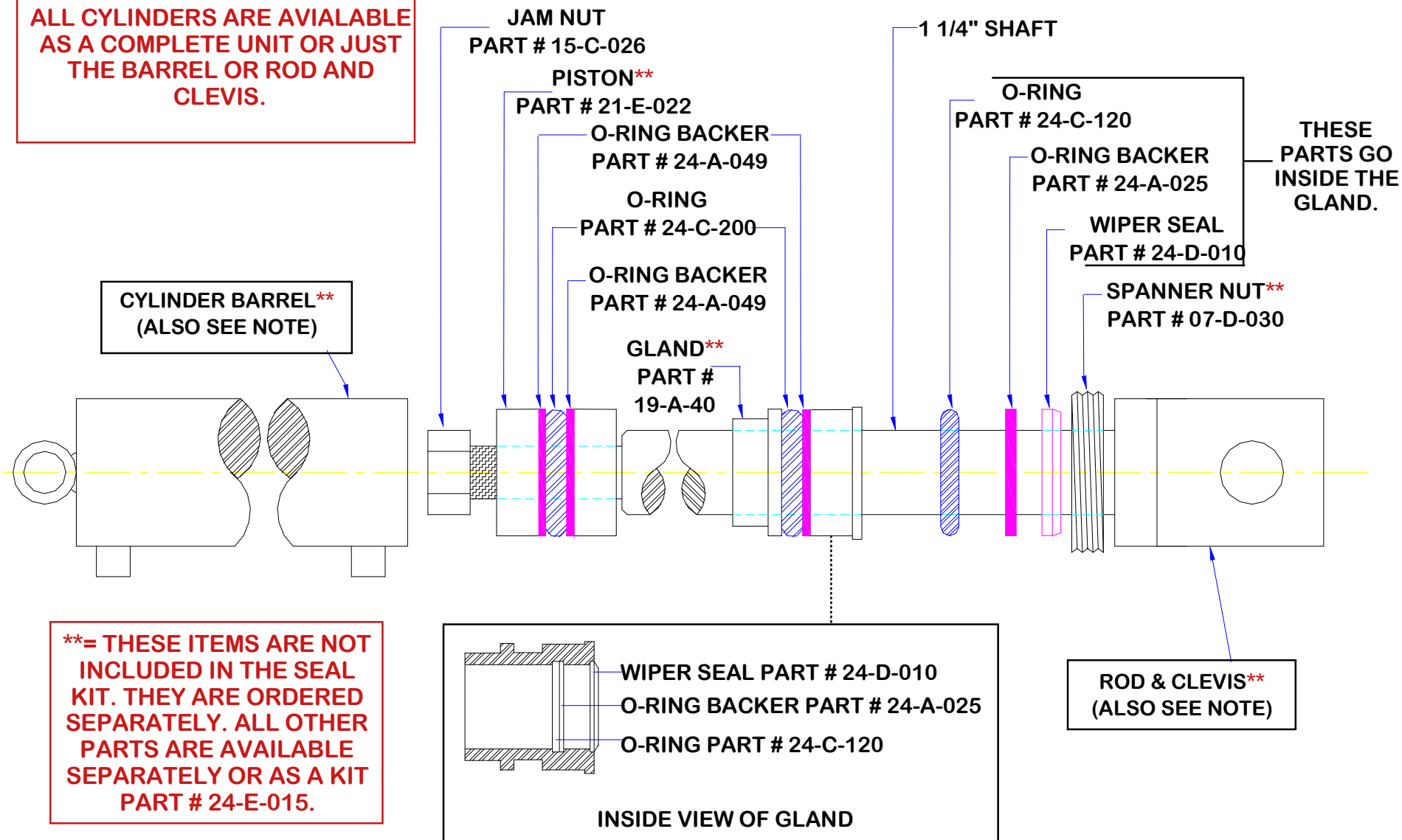
BARRELL ONLY	PART #
VERTICAL EDGER SAWS	O7-D-170
SHIFTING ON HUSKS	CALL FACTORY 1-800-245-2448



DOG OPEN/CLOSE 2-1/2" CYLINDER

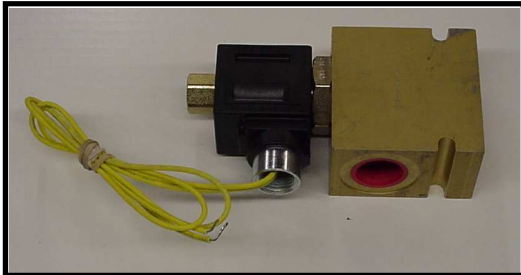
NOTE:
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SCRAGG VALVES

THESE ARE THE BIG "O5" VALVES



CARTRIDGE VALVE

Part #31-B-340

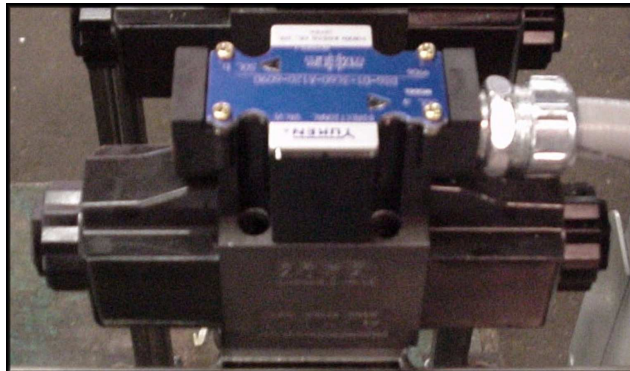
COIL

Part # 08-C-141



VICKERS VALVE

	PART #
COMPLETE FULL VALVE	31-B-115
COMPLETE HALF VALVE	31-B-110
ELECTRIC COIL	08-C-025
O-RING SEAL KIT	24-E-065
GASKET + O-RING SEAL KIT	24-E-151



NORTHMAN VALVE

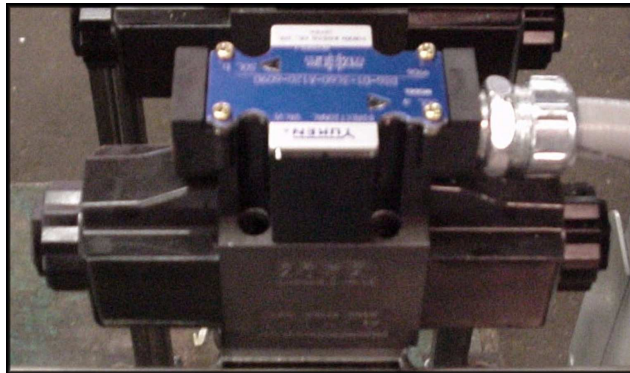
	PART #
COMPLETE FULL VALVE	31-B-133
COMPLETE HALF VALVE	31-B-134
ELECTRIC COIL	08-C-145
O-RING SEAL (requires 5)	24-C-165

YUKEN VALVE

	PART #
COMPLETE FULL VALVE	31-B-133Y
COMPLETE HALF VALVE	31-B-134Y
ELECTRIC COIL	08-C-170
O-RING SEAL (requires 5)	24-C-165

AUXILLARY VALVES

THESE ARE THE SMALL "O3" VALVES



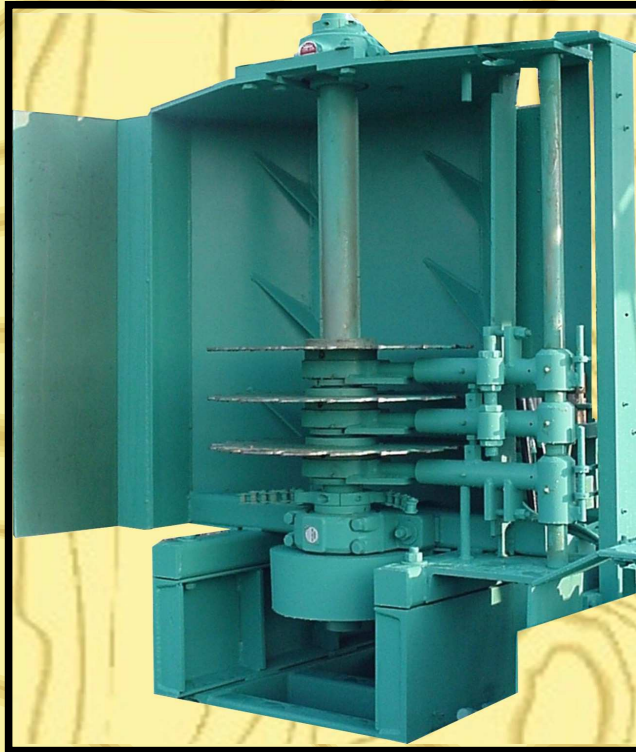
NORTHMAN VALVE

	PART #
COMPLETE FULL VALVE	31-B-132
COMPLETE HALF VALVE	31-B-139
ELECTRIC COIL	08-C-150
O-RING SEAL (requires 5)	24-C-005

YUKEN VALVE

	PART #
COMPLETE FULL VALVE	31-B-132Y
COMPLETE HALF VALVE	31-B-139Y
ELECTRIC COIL	08-C-160
O-RING SEAL (requires 5)	24-C-005

The HELLE Scragg Vertical Edger



Equipment may vary from what is pictured.

PARTS MANUAL

HELLE Sawmill Equipment

Mfg. by Sawmill Hydraulics, Inc.

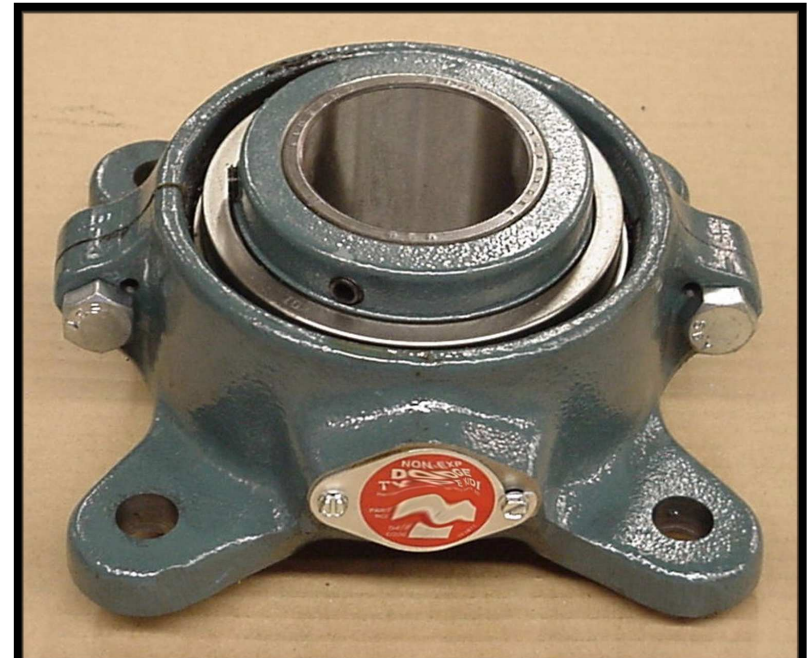
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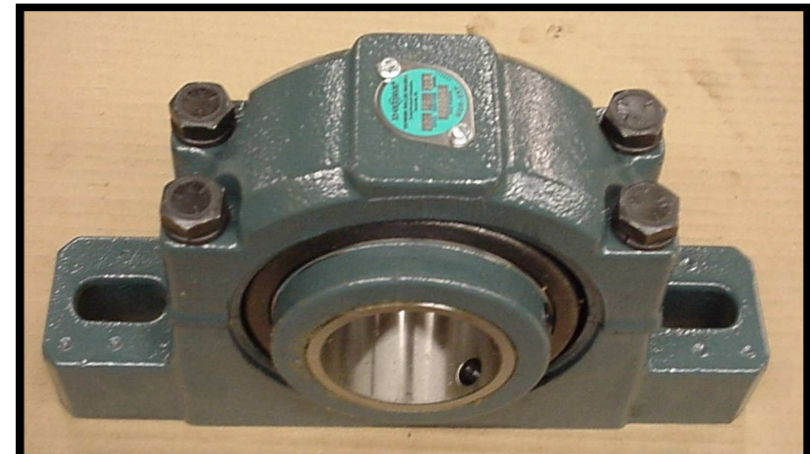
**PARTS:
2 15/16" VERTICAL EDGER
MANDREL BEARINGS**



**BEARING INSERT
FOR EITHER BEARING
PART # 01-B-080**

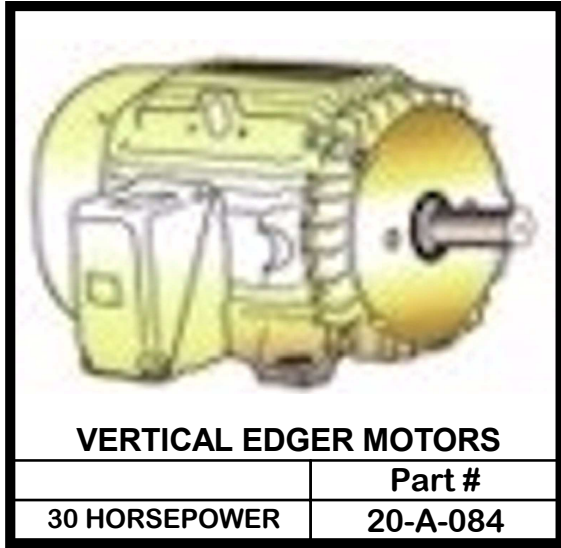


**TOP BEARING
PART # 01-A-100**



**BOTTOM BEARING
PART # 01-D-0175**

PARTS: VERTICAL EDGER DRIVES



VERTICAL EDGER MOTORS

	Part #
30 HORSEPOWER	20-A-084

2-15/16" MANDREL

	PART #
MANDREL WITH KEYS	32-A-073
12-1/2" KEY WITH BOLTS	32-A-400A
11-9/16" KEY WITH BOLTS	32-A-400

NOTE:
TO REDO A COMPLETE MANDREL
YOU WILL NEED 2 OF EACH KEY

BELTS
(3 BELTS ARE NEEDED FOR EACH DRIVE)

	PART #
30 HP	02-B-074

PULLEY
FOR EITHER
MANDREL OR MOTOR
PART # 36-A-030

**MOTOR
BUSHING**

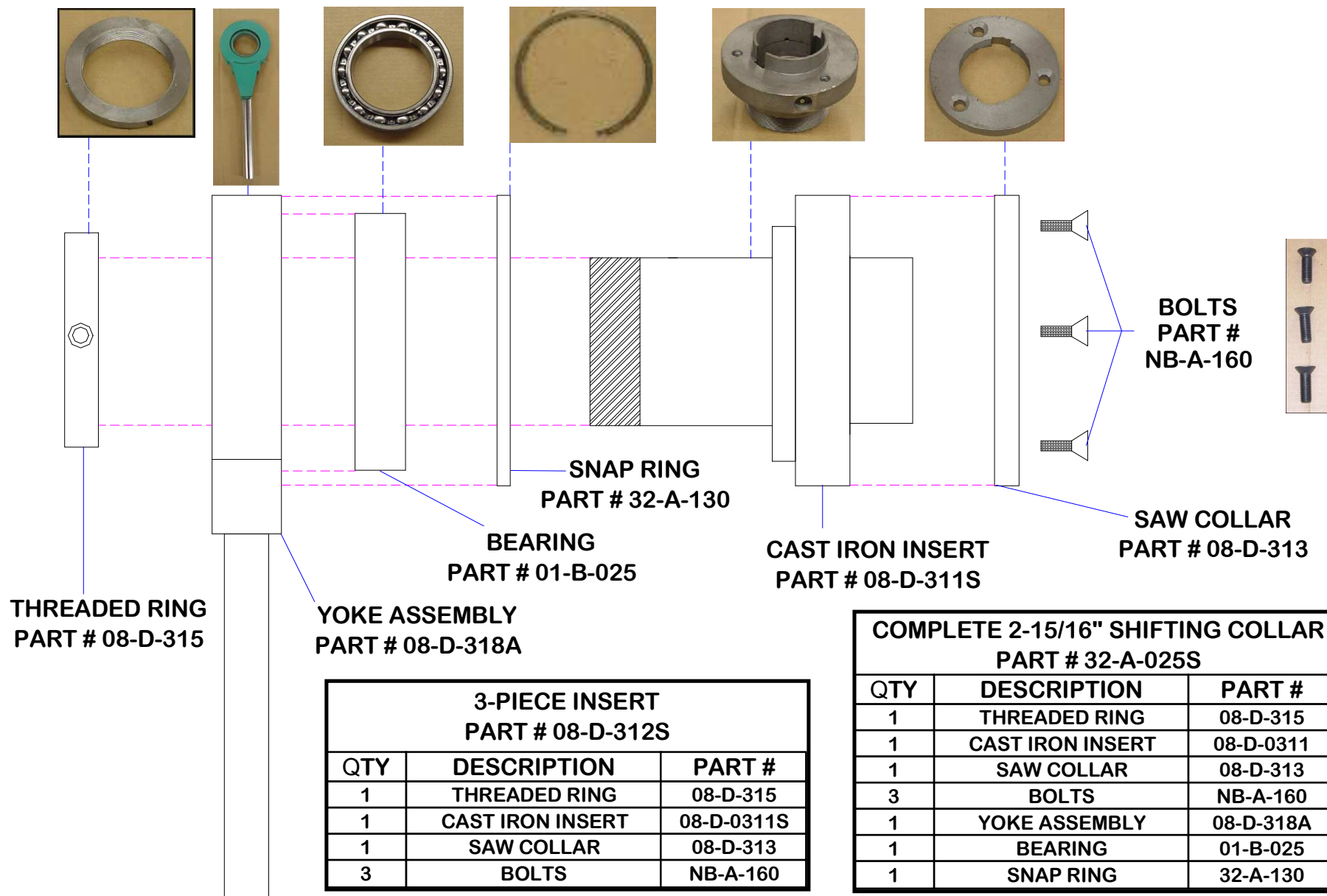
	PART #
30HP	03-A-070J

**MANDREL
BUSHING**

PART # 03-A-070M

PARTS:

2 15/16" VERTICAL EDGER SHIFTING COLLAR

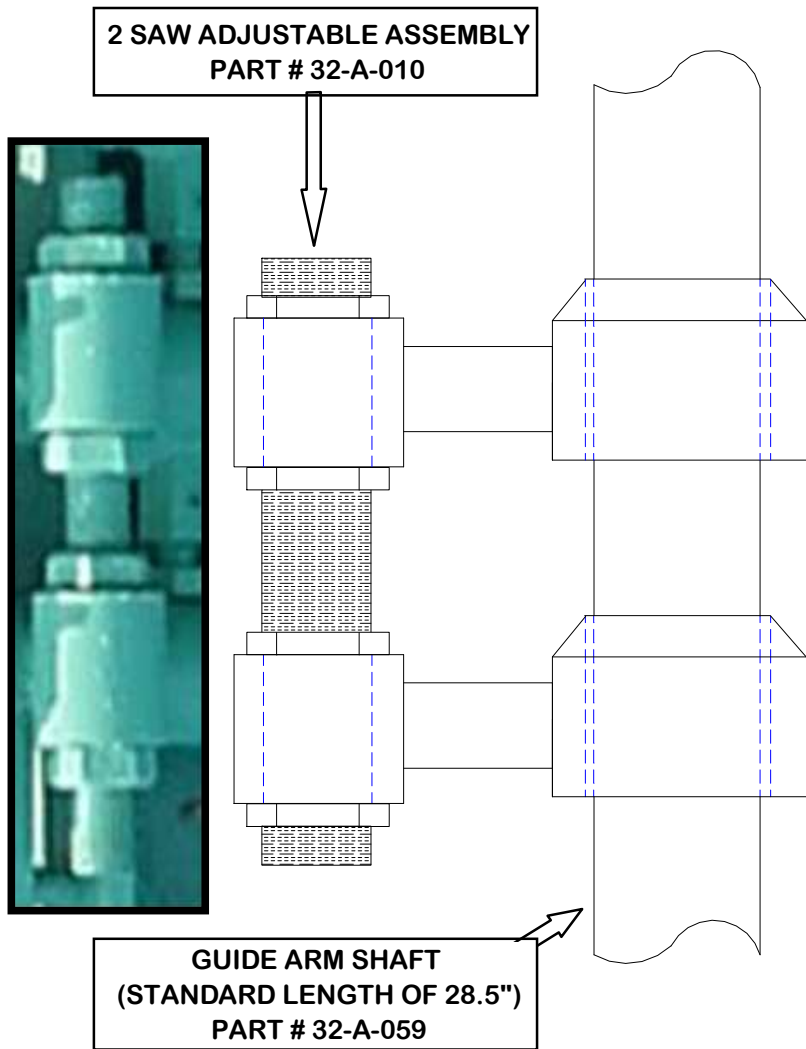


3-PIECE INSERT PART # 08-D-312S		
QTY	DESCRIPTION	PART #
1	THREADED RING	08-D-315
1	CAST IRON INSERT	08-D-0311S
1	SAW COLLAR	08-D-313
3	BOLTS	NB-A-160

COMPLETE 2-15/16" SHIFTING COLLAR PART # 32-A-025S		
QTY	DESCRIPTION	PART #
1	THREADED RING	08-D-315
1	CAST IRON INSERT	08-D-0311
1	SAW COLLAR	08-D-313
3	BOLTS	NB-A-160
1	YOKE ASSEMBLY	08-D-318A
1	BEARING	01-B-025
1	SNAP RING	32-A-130

PARTS:

2 15/16" VERTICAL EDGER SHIFTING ASSEMBLY

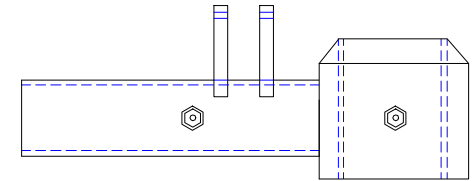


(VIEW FROM SIDE OF VERTICAL EDGER)

3" TOP GUIDE ASSEMBLY

PART # 32-A-140

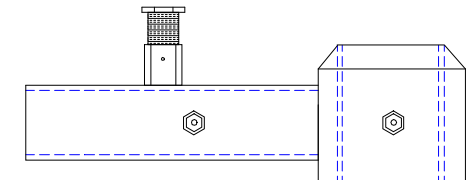
QTY	DESCRIPTION	PART #
1	BRONZE BUSHING	03-B-018
1	CYLINDER CLEVIS	16-A-080



3" MIDDLE GUIDE ASSEMBLY

PART # 32-A-148

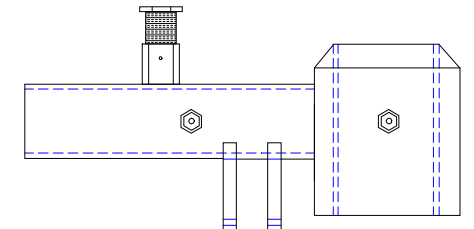
QTY	DESCRIPTION	PART #
1	BRONZE BUSHING	03-B-018
1	ADUJSTABLE STOP	32-A-015



5" BOTTOM GUIDE ASSEMBLY

PART # 32-A-020

QTY	DESCRIPTION	PART #
1	BRONZE BUSHING	03-B-019
1	ADUJSTABLE STOP	32-A-015
1	CYLINDER CLEVIS	16-A-080



**PARTS:
VERTICAL EDGER
OTHER PARTS**



**VERTICAL EDGER CYLINDER
PART # 07-C-087**

**NOTE:
FOR A PARTS BREAK DOWN OF THE
CYLINDER SEE THE PAGE LABELED:
2" DOUBLE ROD CYLINDER SEAL KIT**



**V.E. SAWDUST PROPELLER
PART # 01-D-0175**



SAW BLADES

	PART #
18" SAWBLADE	32-A-116



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