

871L Series

Pro Gear and Transmission

This document is the 871L Series section of Parker bulletin HY25-2871L, which also covers the 878L Series.

It holds the 33 pages that apply to your unit, out of 44 in the complete manual. Nothing has been edited: the pages are the manufacturer's own, and every part number links to our live inventory.

Page numbers printed on these pages are the complete manual's, so a reference such as "see page 75" points into the full book rather than this excerpt.

Complete manual, all series

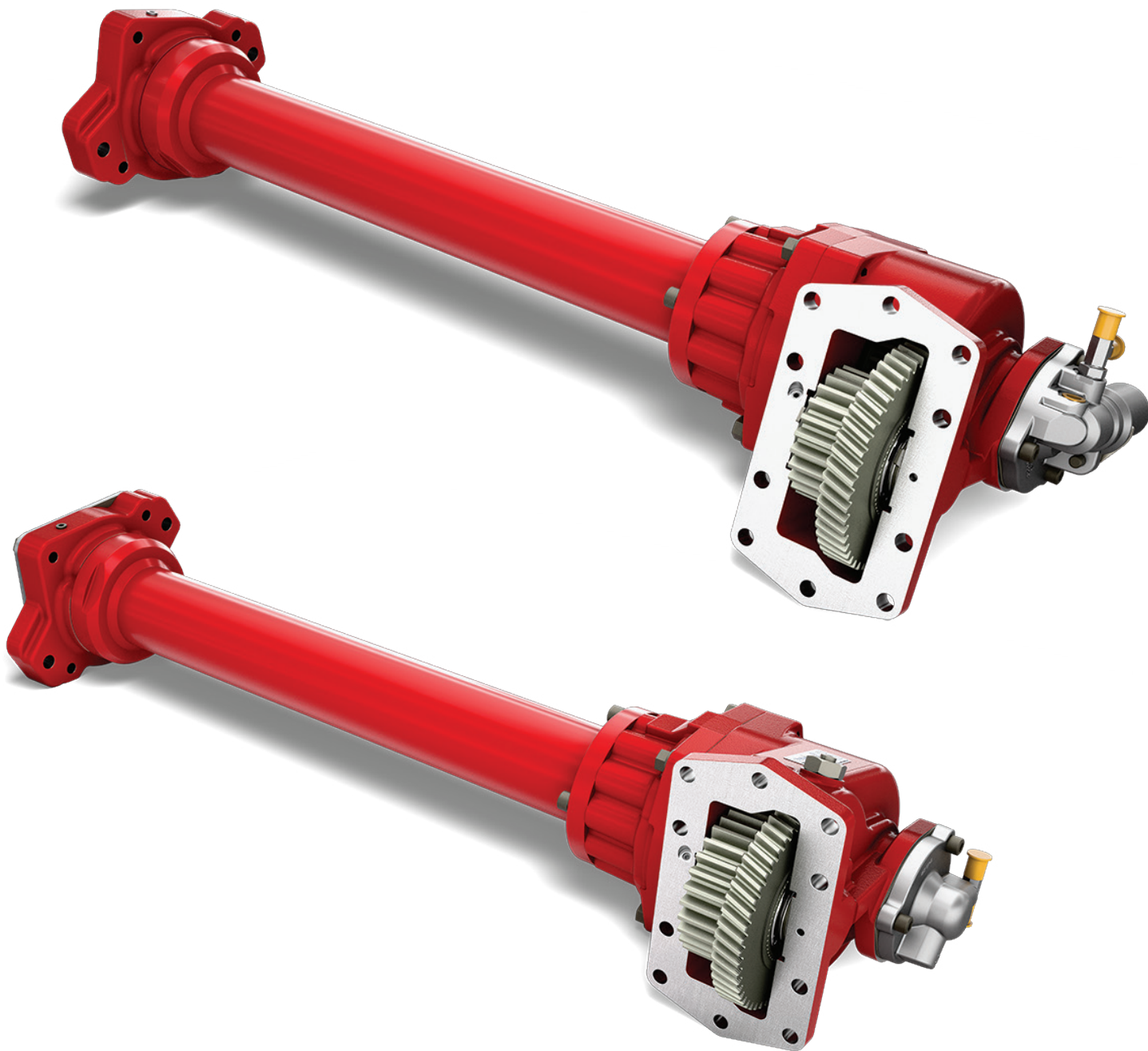
[Download the full 44 page manual](https://www.pgtruckparts.com/content/manuals/chelsea/interactive/full/Chelsea-PTO-871L-Series-Parts-Manual-Interactive-ALL-SERIES-44pp.pdf)

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Power Take-Offs Parts List

871L, 878L Series

Effective: HY25-2871L-M1/US April 15, 2026

Supersedes: HY25-2871XL-M1/US December 15, 2023



ENGINEERING **YOUR** SUCCESS.



WARNING – User Responsibility

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

Offer of Sale

The items described in this document are hereby offered for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions stated in the "Offer of Sale".



WARNING: This product can expose you to chemicals including Lead and Lead Compounds, and Di(2-ethylhexyl)phthalate (DEHP) which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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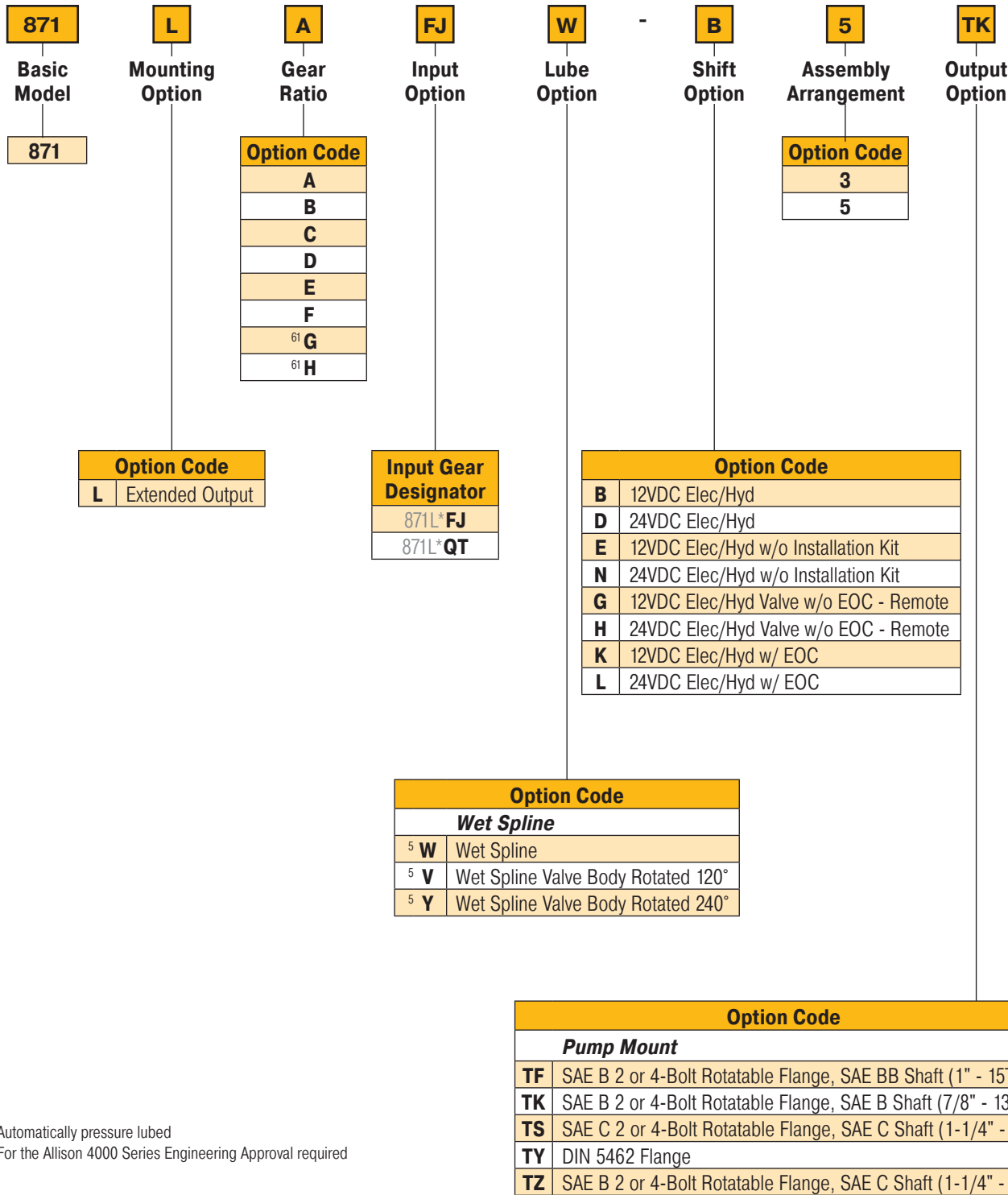
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Model Number Designator

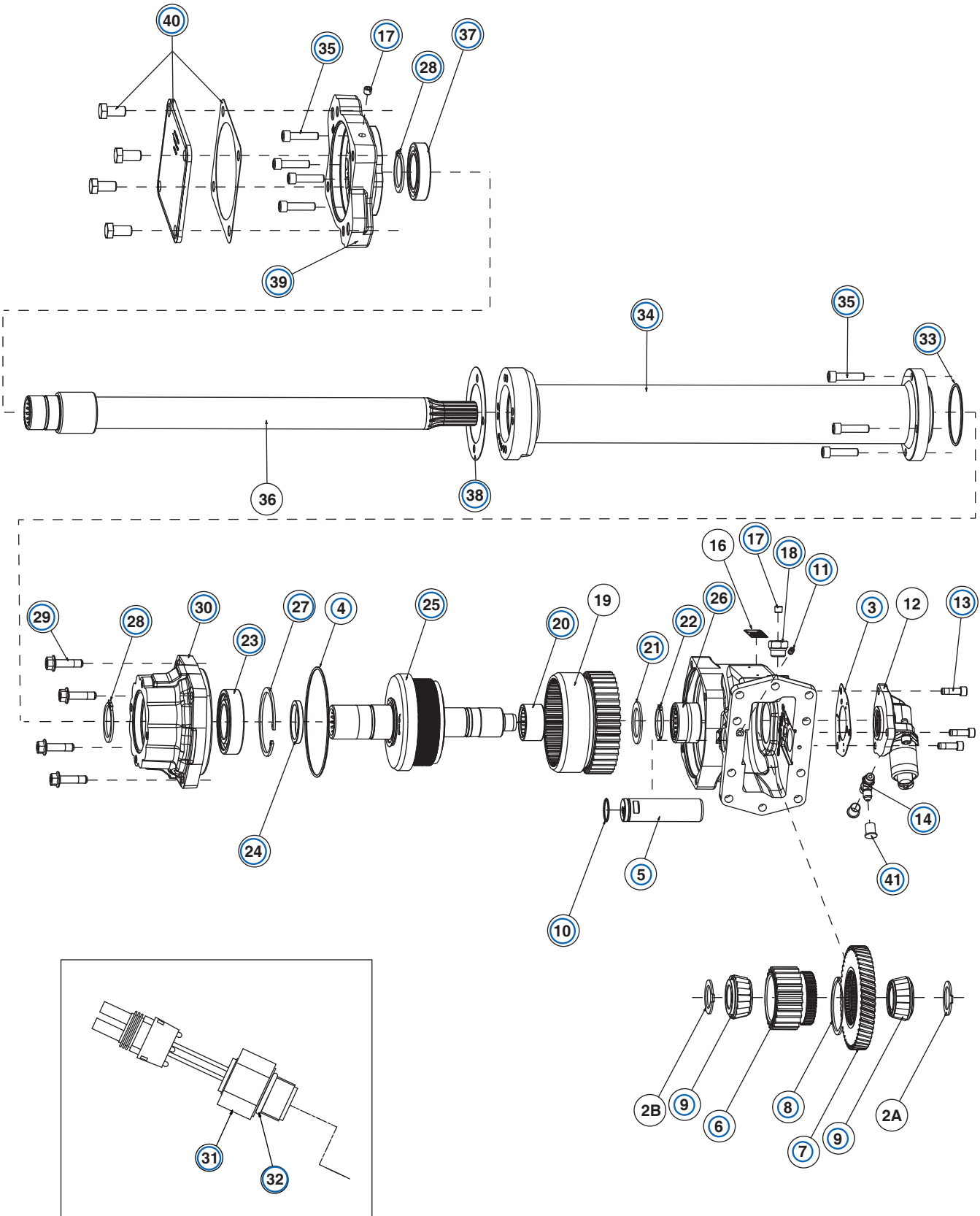


⁵ Automatically pressure lubed

⁶¹ For the Allison 4000 Series Engineering Approval required

Parts List
871L Series

Exploded View



Parts List
871L Series

Bill of Materials

Item	Part Number	Description	Qty.
1 ►	1-P-817	Housing (3 Arrangement).....	1 or
►	1-P-816	Housing (5 Arrangement).....	1
2A	14-P-82-1	Spacer (1.191" x 1.750" x .080")	1
2B	14-P-82-1	Spacer (1.191" x 1.750" x .080") (Thickness as Required)	A.R.
	14-P-82-2	Spacer (1.191" x 1.750" x .085")	A.R.
	14-P-82-3	Spacer (1.191" x 1.750" x .090")	A.R.
	14-P-82-4	Spacer (1.191" x 1.750" x .094")	A.R.
3 ►	22-P-112	Valve Cap Gasket.....	1
4 ►	28-P-329	O-ring (5.487" x .103").....	1
5 ►	9-P-99	Idler Shaft (1.180").....	1
6	See page 5	Ratio Gear.....	1
7	See page 5	Input Gear	1
8 ►	380064	Lockring	1
9 ►	561026	Tapered Cone Bearing (1.181" x .984").....	2
10 ►	28-P-42	O-ring (1.051" x .070").....	1
11 ►	378452-7	Socket Head Set Screw (.250"-20 x .500").....	1
12	See page 7	Valve Cap Assembly	1
	See page 7	Seal Cap Assembly	1
13 ►	378447-6	Socket Head Cap Screw (.312"-18 x 1.000").....	3
14 ►	379659	Tee (.438"-20) (B, K, D & L Shifter).....	1
►	379486	90° Elbow (.438"-20) (G & H Shifter)	1
16	68-P-51-1	Adhesive Label	1
17 ►	379231	Pipe Plug (.125"-27) (w/o EOC only)	3
►	379231	Pipe Plug (.125"-27) (w/ EOC only)	2
18 ►	379242	Straight Adapter (.125"-27 x .750"-16) (w/o EOC only)	1
19	See page 5	Clutch Gear	1
20 ►	560972	Needle Roller Bearing Assembly (1.500" x 1.875" x 1.000").....	1
21 ►	31-P-70	Thrust Washer (1.507" x 2.167" x .094").....	1
22 ►	379746	Lockring	1
23 ►	550311	Ball Bearing (1.770" x 3.346" x .748")	1
24 ►	4-P-187	Spacer (1.776" x 2.200" x .239")	1
25 ►	329724-2X	Drive Shaft & Clutch Assembly	1
26 ►	561047	Needle Roller Bearing (1.500" x 2.062" x 1.250").....	1
27 ►	378263	Internal Lockring.....	1
28 ►	379555	Lockring	2
29 ►	380563-14	Hex Flex Head Cap Screw (3/8"-16 x 1.500") (Grade 8).....	4
30 ►	21-P-935	Bearing Cap	1
31 ►	379243	Speed Sensor (w/ EOC Only)	1
32 ►	28-P-171	O-ring (.644" x .087") (w/ EOC Only).....	1
33 ►	28-P-252	O-ring (2.987" x .103").....	1
34 ►	54-P-48	Machined Tube Assembly.....	1
35 ►	379433-8	Socket Head Cap Screw (.375"-16 x 1.500").....	8
36	3-P-1212-3X	Output Shaft (TS & TZ Output).....	1
37 ►	561018	Ball Bearing (1.772" x 2.953" x .630").....	1
38 ►	35-P-101	Bearing Cap Gasket (Wet Spline).....	1

A.R. – As Required

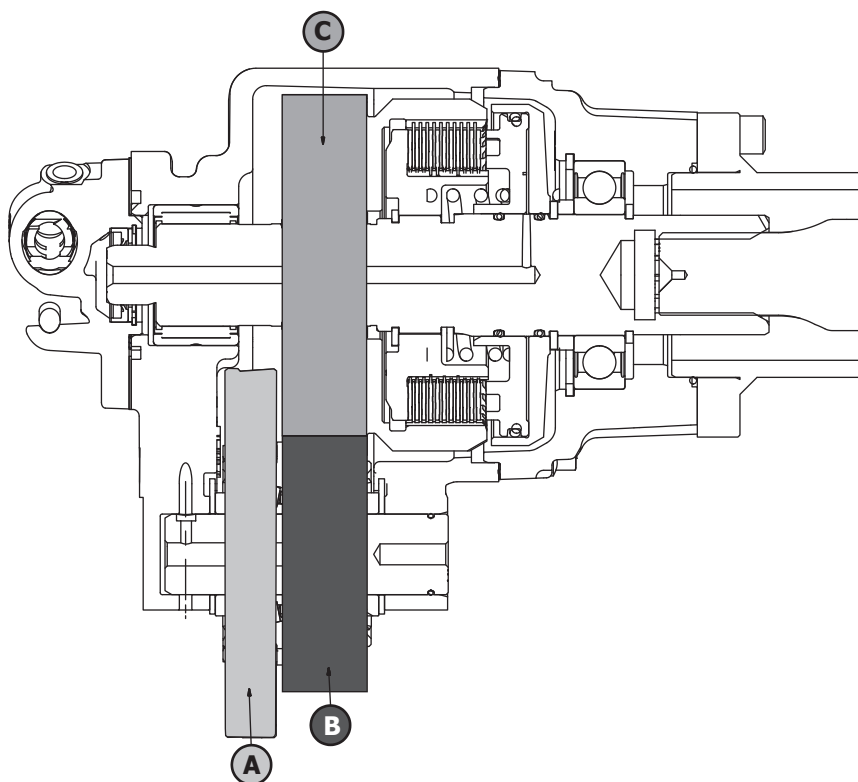
Continued on Next Page

Parts List
871L Series

Bill of Materials

Item	Part Number	Description	Qty.
39 ▶	21-P-891	Pump Flange (TS Output Only)	1
40 ▶	329654X	Cover Kit (TS Output Only)	1
41 ▶	379564-2	Thread Cap (.438")	2
N.S.	69-P-30	Caution Tag	1
	See pages 30-33 for Bill of Materials for the below loose parts.		
		GASKET KITS	
▶	328948-52X	Gasket & Installation Instructions Kit (All)	
		STUD KITS	
▶	329926X	Bracket Mounting Clamp Kit (All)	
	7170-86X	Stud Kit (All)	
		INSTALLATION KITS	
▶	329024-12X	12VDC Valve Installation Kit (B Shift)	
▶	329024-24X	24VDC Valve Installation Kit (D Shift)	
▶	329076X	12VDC Installation Kit w/ EOC (K & L Shift)	
	329076-24X	24VDC Installation Kit w/ EOC (K & L Shift)	
▶	329650X	Electronic Overspeed Controls (K & L Shift)	
	329930-12X	12VDC Remote Valve Installation Kit (w/o EOC) (G Shift)	
	329930-24X	24VDC Remote Valve Installation Kit (w/o EOC) (H Shift)	
		SERVICE KITS	
▶	329678X	Inner Clutch Gear & Plates Kit	
▶	329929-1X	Gasket & Seal Kit (All Outputs) (Include Lockrings)	1
▶	329929-2X	Bearing Kit (All Outputs) (Include Lockrings)	1
		HOSE ASSEMBLY KITS	
▶	328075X	Exhaust Hose Assembly (G & H Shift) (36")	1
▶	329057-3X	Pressure Hose Assembly (G & H Shift) (26")	1
▶	329141-1X	Pressure Hose Assembly (All) (42.500")	1
▶	329925-1X	Lube Line & Gasket Kit (TK Output Only)	1
▶	329925-2X	Lube Line & Gasket Kit (TS Output Only)	1
▶	329925-3X	Lube Line & Gasket Kit (TY Output Only)	1
▶	329075-3X	Pressure Hose Assembly (G & H Shift) (35")	1
		CONVERSION KITS	
▶	329354-12X	12VDC Remote Valve Conversion Kit (B Shift)	
▶	329354-24X	24VDC Remote Valve Conversion Kit (D Shift)	

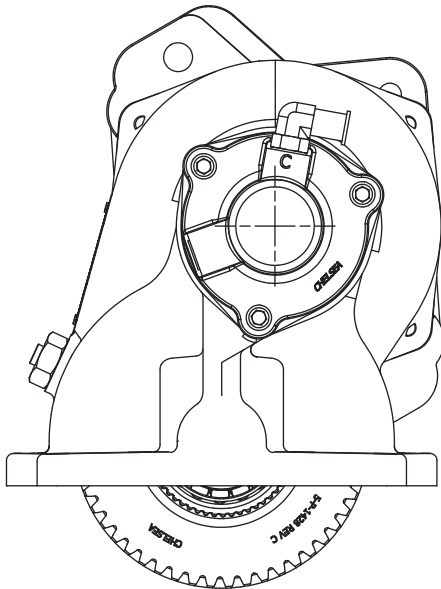
N.S. – Not Shown



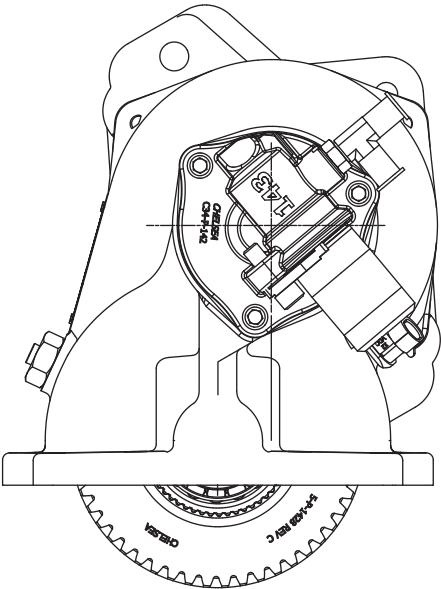
GEAR DESIGNATOR	INPUT GEAR (7)	NO. TEETH A	RATIO GEAR (6)	NO. TEETH B	OUTPUT GEAR (19)	NO. TEETH C
871LAFJ	5-P-1428	50	5-P-1545	24	2-P-891	40
871LBFJ	5-P-1428	50	5-P-1546	25	2-P-892	39
871LCFJ	5-P-1428	50	5-P-1439	26	2-P-893	38
871LDFJ	5-P-1428	50	5-P-1440	27	2-P-894	37
871LEFJ	5-P-1428	50	5-P-1432	29	2-P-895	35
871LFFJ	5-P-1428	50	5-P-1433	31	2-P-896	33
871LGFJ	5-P-1428	50	5-P-1457	33	2-P-897	31
871LHFJ	5-P-1428	50	5-P-1455	34	2-P-898	30

871LAQT	5-P-1661X	50	5-P-1545	24	2-P-891	40
871LBQT	5-P-1661X	50	5-P-1546	25	2-P-892	39
871LCQT	5-P-1661X	50	5-P-1439	26	2-P-893	38
871LDQT	5-P-1661X	50	5-P-1440	27	2-P-894	37
871LEQT	5-P-1661X	50	5-P-1432	29	2-P-895	35
871LFQT	5-P-1661X	50	5-P-1433	31	2-P-896	33
871LGQT	5-P-1661X	50	5-P-1457	33	2-P-897	31
871LHQT	5-P-1661X	50	5-P-1455	34	2-P-898	30

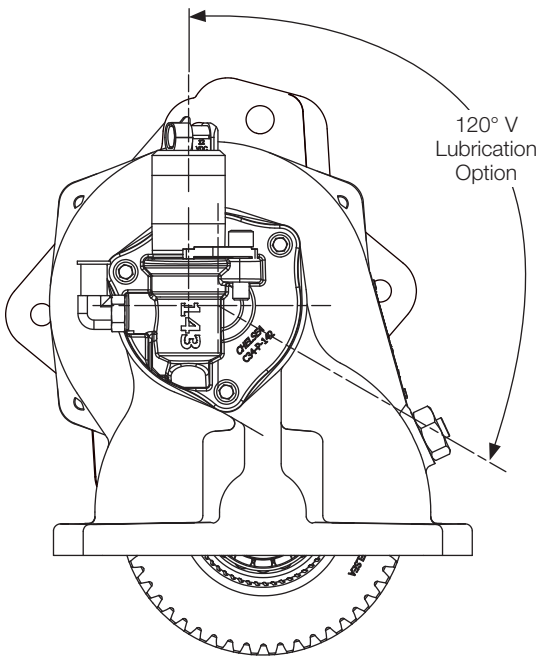
Pressure Lube



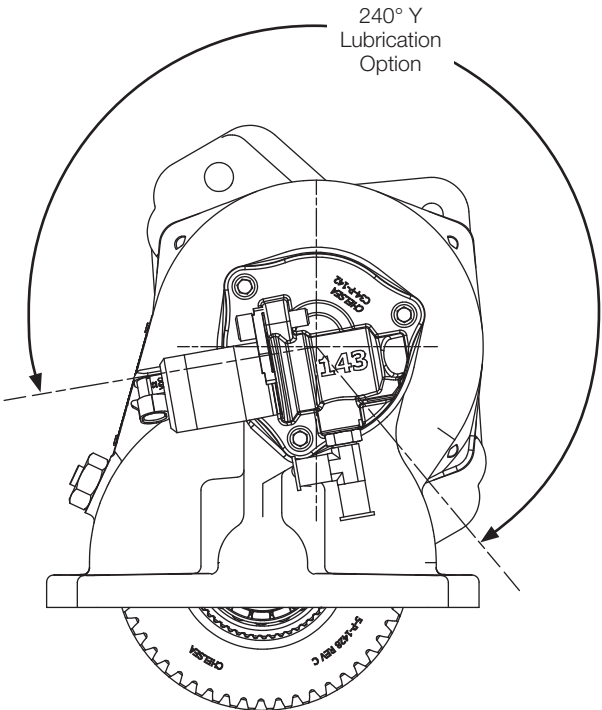
Shifter Options G & H Shown
For Remote Mounted Valve
5 Arrangement



5 Arrangement
W Lubrication Option



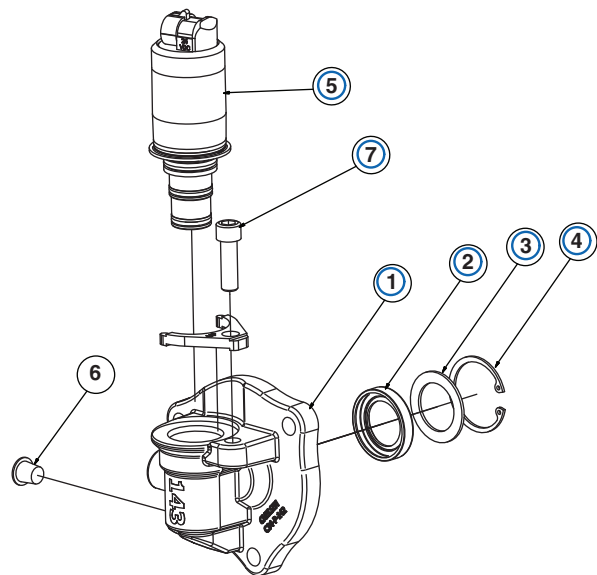
Shifter Options B & D Shown
For Direct Mounted Valve
3 Arrangement



5 Arrangement
Y Lubrication Option

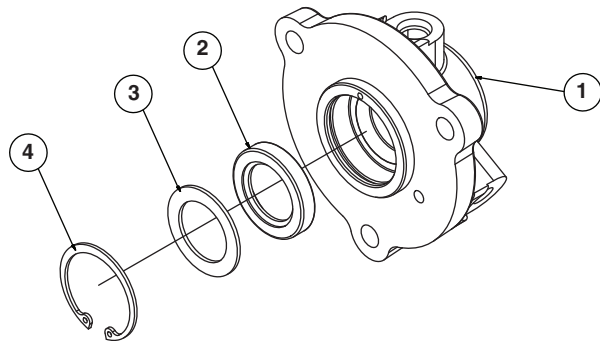
Shift Options

Valve Cap Assembly – 330175-*X



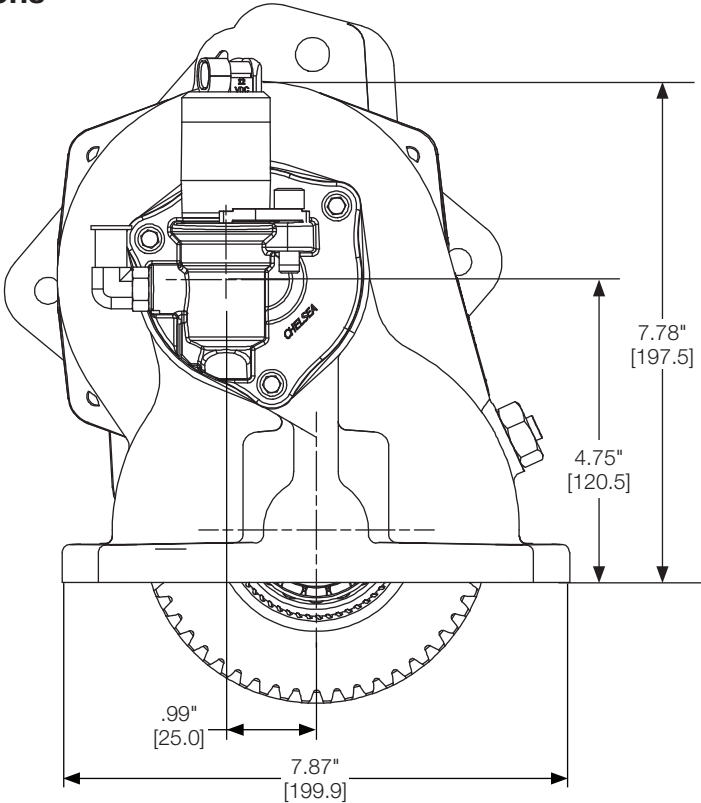
Item	Part Number	Description	Qty.
▶	330175-12X	12VDC Valve Cap Assembly.....	1 or
	330175-24X	24VDC Valve Cap Assembly.....	1
1	34-P-357	Valve Cap.....	1
2 ▶	28-P-119	Oil Seal (1.379" x .875" x .250").....	1
3 ▶	378811	Seal Back-up Plate.....	1
4 ▶	378849	Lockring	1
5 ▶	380123-12	Cartridge Valve (12VDC) (Non-regulating).....	1 or
	380123-24	Cartridge Valve (24VDC) (Non-regulating).....	1
6	500897-5	Shipping Plug	1
7 ▶	378447-6	1/4" Socket Head Cap Screw (.312"-18 x 1.000")	1

Remote Valve Cap Assembly – 329403X

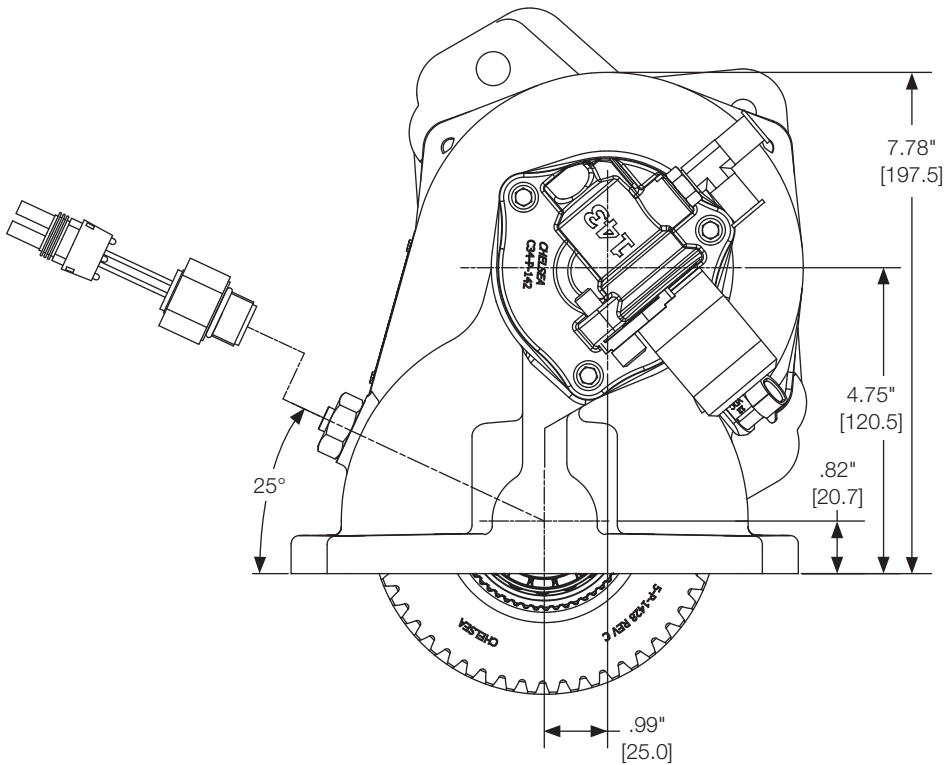


Item	Part Number	Description	Qty.
1 ▶	21-P-701	Cap Seal	1
2 ▶	28-P-119	Oil Seal (1.379" x .875" x .250").....	1
3 ▶	378811	Plate Seal Back-up.....	1
4 ▶	378849	Lockring	1

PTO Housing Dimensions



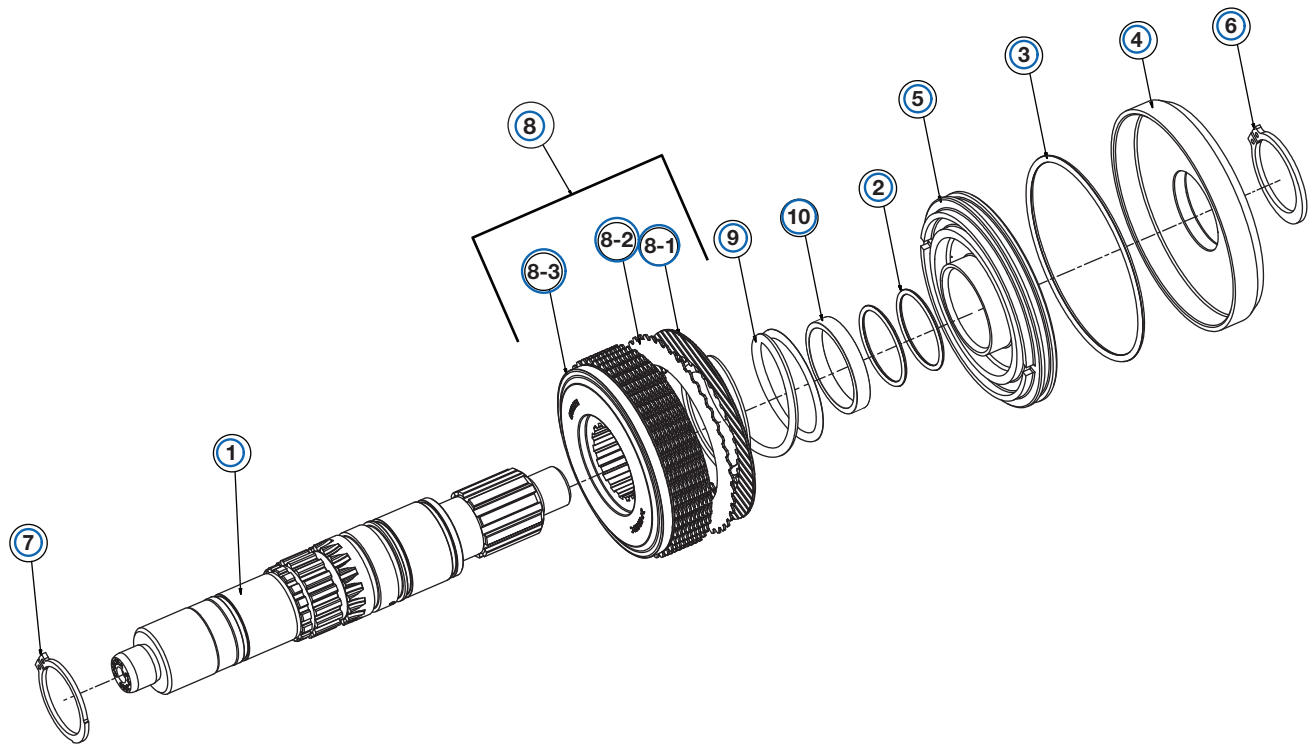
3 Arrangement



5 Arrangement

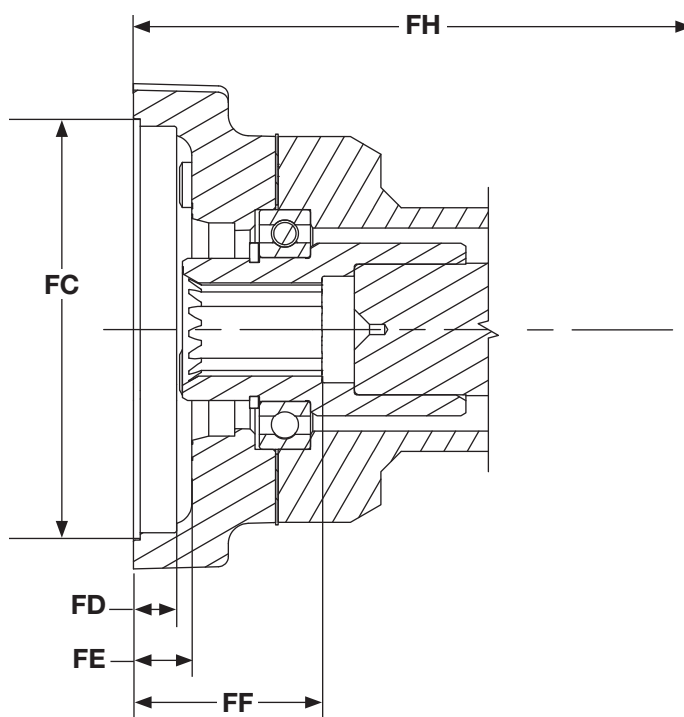
Output Options

Assembly Drive Shaft & Clutch 329724-2X



Item	Part Number	Description	Qty.
1 ►	3-P-1066	Output Shaft (1-1/4" - 14T).....	1
2 ►	28-P-285	O-ring (1.597" x .103").....	2
3 ►	28-P-178	O-ring (4.484" x .138").....	1
4	380051	Cylinder Clutch Back-up.....	1
5 ►	380110-1	Clutch Piston (Early 870 Series included piston w/ ball but is no longer necessary).....	1
6 ►	379555	Lockring	1
7 ►	380069	Lockring	1
8 ►	329678X	Gear & Plates Kit	1
8-1 ►	379485	Friction Disc.....	11
8-2 ►	380065	Clutch Plate	10
8-3 ►	2-P-858	Inner Gear Hub	1
9 ►	37-P-72	Spring (2.140" x 1.729")	1
10 ►	4-P-213	Spacer (1.800" x 2.070" x .330")	1

Pump Flange & Shaft Dimensions



Direct Mount

	Output Flange		Flange Mounting Holes		FC	FD	FE	FF	FH	Output Shaft	
	Flange Type	Bolt Circle Diameter	Hole Diameter	No. Equally Spaced	Female Pilot of Flange	Pilot Depth Hole	Face to End of PTO	Face Thru	Face to Center	Type	Spline
TF●	SAE B - 2-Bolt	5.750"	1/2"-13 UNC	8■	4.004"/4.002"	0.406"	0.473"	2.050"	29.480"	SAE B-B	1" - 15T
	SAE B - 4-Bolt	5.000"									
TK●	SAE B - 2-Bolt	5.750"	1/2"-13 UNC	8■	4.004"/4.002"	0.406"	0.473"	2.050"	29.480"	SAE B	7/8" - 13T
	SAE B - 4-Bolt	5.000"									
TS●	SAE C - 2-Bolt	7.125"	5/8"-11 UNC	2	5.006"/5.003"	0.603"	0.720"	2.320"	29.610"	SAE C	1-1/4" - 14T
	SAE C - 4-Bolt	6.375"	1/2"-13 UNC	4							
TY●	ISO 7653 - 4-Bolt	4.454"	M12-1.75	4	3.153"/3.151"	0.500"	0.700"	2.140"	29.280"	DIN 5462	B8x32x36
TZ●	SAE B - 2-Bolt	5.750"	1/2"-13 UNC	8■	4.004"/4.002"	0.406"	0.473"	2.190"	29.480"	SAE C	1-1/4" - 14T
	SAE B - 4-Bolt	5.000"									

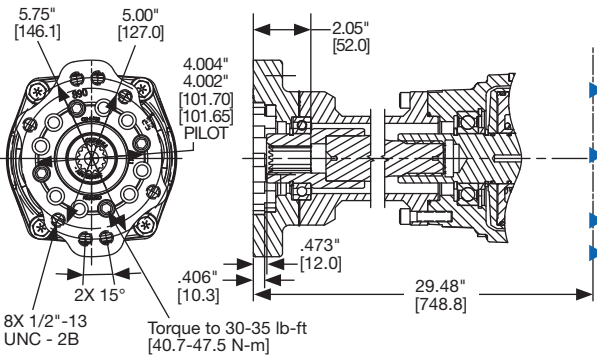
- Rotatable Flange Rotates in 15° Increments
- Two Set of Holes Spaced 15° Apart

CAUTION: All pump mounting dimensions shown are compiled to conform to SAE/DIN standards; however it shall be the responsibility of the user to determine the correct fit at the time the pump is mounted to the PTO. Therefore carefully check the shaft and key or spline engagement.

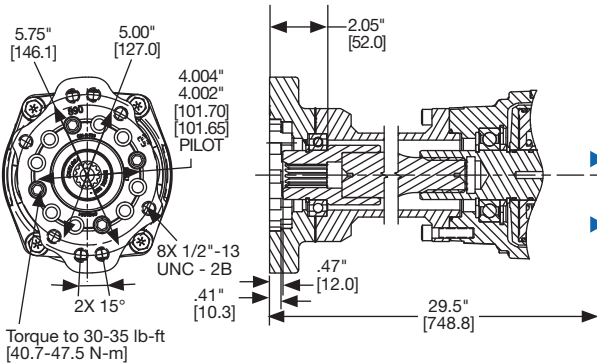
Parts List
871L Series

Output Options

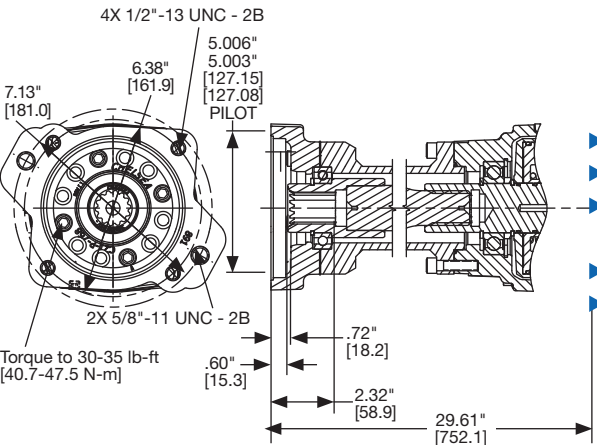
Bill of Materials — Pump Mount Output



TF Output Option		
Rotatable SAE B Pilot 2/4-Bolt Flange, SAE BB Shaft (1" - 15T)		
Part Number	Description	Qty.
379231	Pipe Plug (.125"-27)	1
379555	Lockring	1
379433-8	Socket Head Cap Screw (.375"-16 x 1.500")	4
3-P-1212-2X	Output Shaft.....	1
561018	Ball Bearing (1.772" x 2.953" x .630").....	1
35-P-101	Bearing Cap Gasket (Wet Spline).....	1
21-P-890	Pump Flange.....	1
329658X	Cover Kit	1
69-P-18	Tag (Wet Spline).....	1



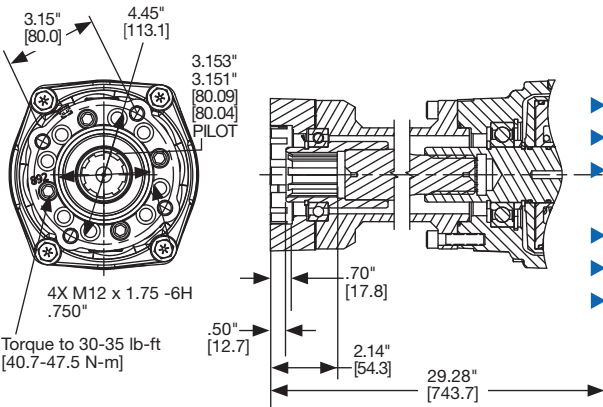
TK Output Option		
Rotatable SAE B Pilot 2/4-Bolt Flange, SAE B Shaft (7/8" - 13T)		
Part Number	Description	Qty.
379231	Pipe Plug (.125"-27)	1
379555	Lockring	1
379433-8	Socket Head Cap Screw (.375"-16 x 1.500")	4
3-P-1212-1X	Output Shaft.....	1
561018	Ball Bearing (1.772" x 2.953" x .630").....	1
35-P-101	Bearing Cap Gasket (Wet Spline).....	1
21-P-890	Pump Flange.....	1
329658X	Cover Kit	1
69-P-18	Tag (Wet Spline).....	1



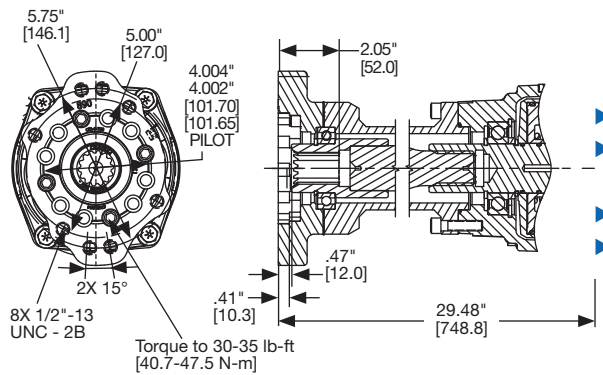
TS Output Option		
Rotatable SAE C Pilot 2/4-Bolt Flange, SAE C Shaft (1-1/4" - 14T)		
Part Number	Description	Qty.
379231	Pipe Plug (.125"-27)	1
379555	Lockring	1
379433-8	Socket Head Cap Screw (.375"-16 x 1.500")	4
3-P-1212-3X	Output Shaft.....	1
561018	Ball Bearing (1.772" x 2.953" x .630").....	1
35-P-101	Bearing Cap Gasket (Wet Spline).....	1
21-P-891	Pump Flange.....	1
329654X	Cover Kit	1
69-P-18	Tag (Wet Spline).....	1

Output Options

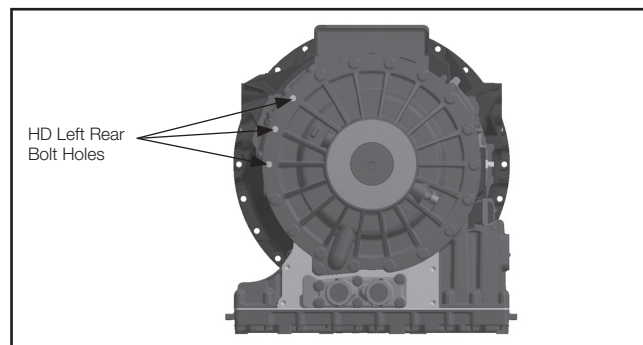
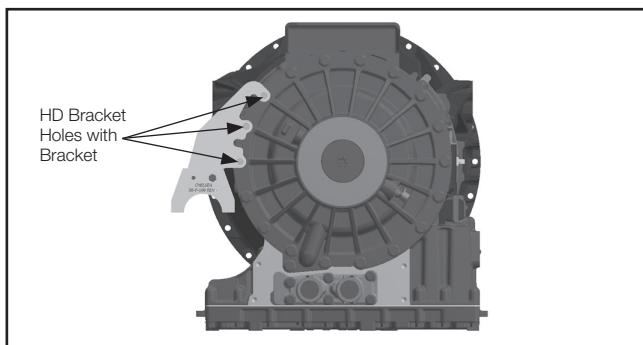
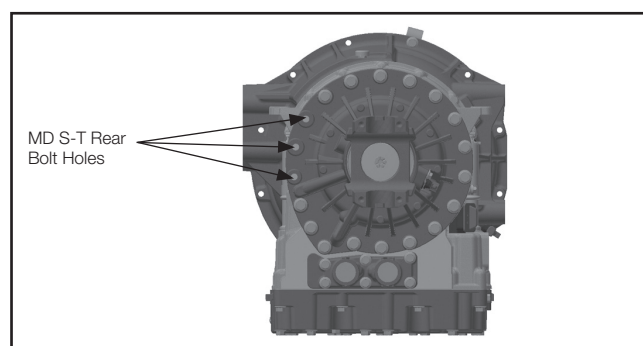
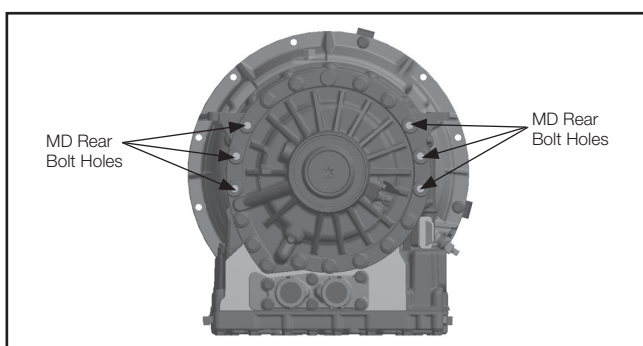
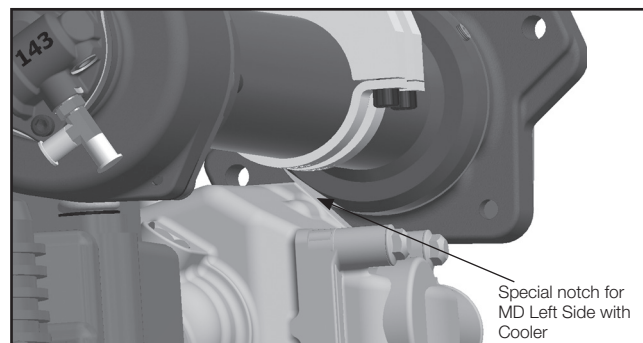
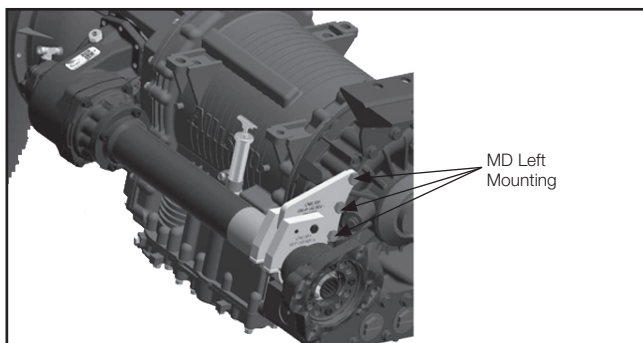
Bill of Materials — Pump Mount Output



TY Output Option		
Rotatable ISO 7653 Pilot 4-Bolt Flange DIN 5462 Shaft (B8x32x36)		
Part Number	Description	Qty.
➤ 379231	Pipe Plug (.125"-27)	1
➤ 379555	Lockring	1
➤ 379433-8	Socket Head Cap Screw (.375"-16 x 1.500")	4
3-P-1212-4X	Output Shaft.....	1
➤ 561018	Ball Bearing (1.772" x 2.953" x .630").....	1
➤ 35-P-101	Bearing Cap Gasket (Wet Spline).....	1
➤ 21-P-892	Pump Flange.....	1
329659X	Cover Kit	1
69-P-18	Tag (Wet Spline).....	1



TZ Output Option		
Rotatable SAE B Pilot 2/4-Bolt Flange, SAE C Shaft (1-1/4" - 14T)		
Part Number	Description	Qty.
379231	Pipe Plug (.125"-27)	1
➤ 379555	Lockring	1
➤ 379433-8	Socket Head Cap Screw (.375"-16 x 1.500")	4
3-P-1212-3X	Output Shaft.....	1
➤ 561018	Ball Bearing (1.772" x 2.953" x .630").....	1
➤ 35-P-101	Bearing Cap Gasket (Wet Spline).....	1
21-P-890	Pump Flange.....	1
329658X	Cover Kit	1
69-P-18	Tag (Wet Spline).....	1

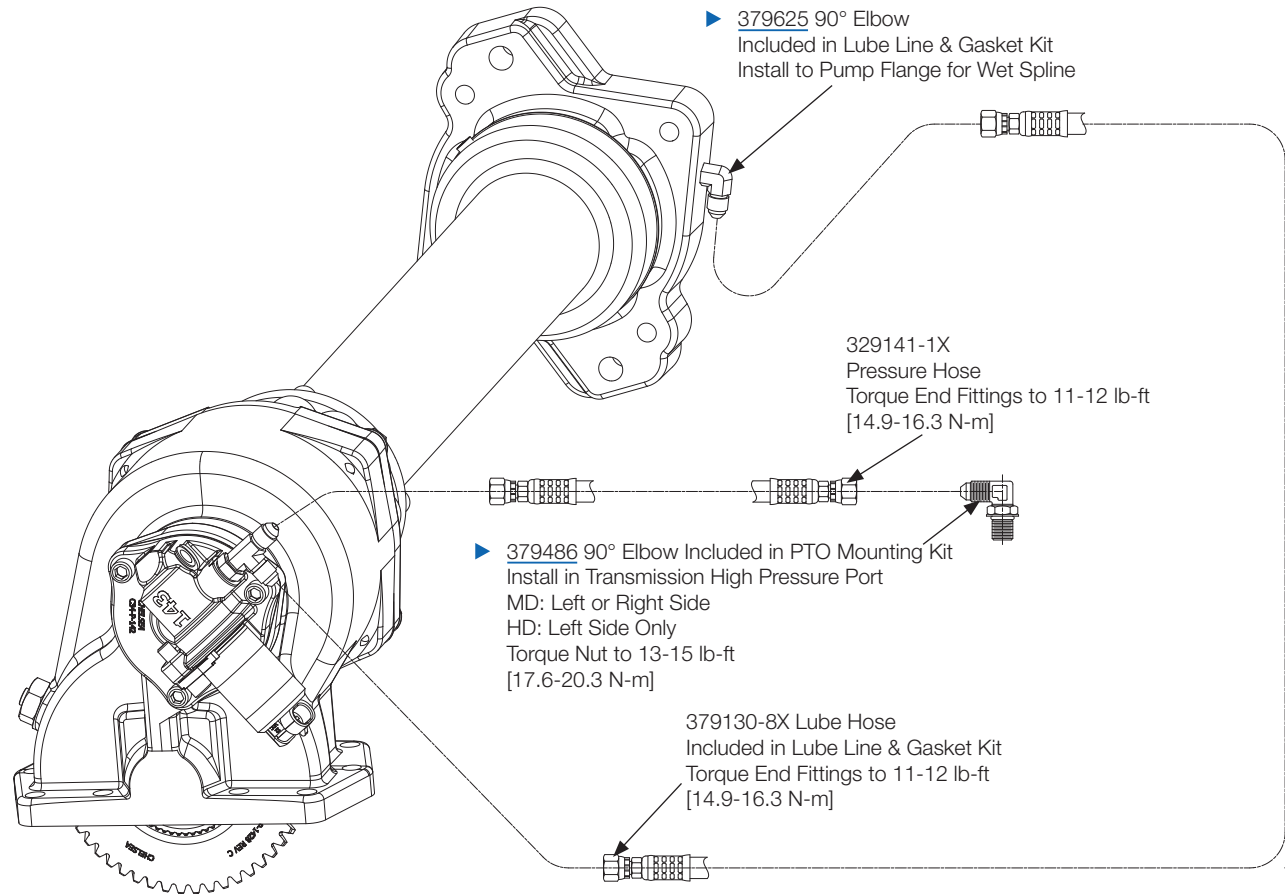
Bracket Installation Sketches**Brackets and Bolt Kits Supplied Separately from PTO**

Model	Arr.	Transmission	Location	Bracket	Bolt Kit w/o Cooler or Retarder	Bolt Kit w/ Cooler	Bolt Kit w/ Retarder
871L	5	MD	Left	50-P-162	329928-1X	329928-1X	329928-3X
871L	3	MD	Left	50-P-164	329928-1X	329928-1X	329928-3X
871L	5	MD	Right	50-P-161	329928-1X	329928-1X	329928-3X
871L	3	MD	Right	50-P-157	329928-1X	329928-1X	329928-3X
871L	5	MD Side/Top	Left	50-P-163	329928-1X	329928-1X	329928-3X
871L	5	HD	Left	50-P-165	329928-1X		329928-2X
871L	3	HD	Left	50-P-158	329928-1X	329928-1X	329928-2X

Installation Sketches

Hydraulic Hose Installation Sketch – 871L

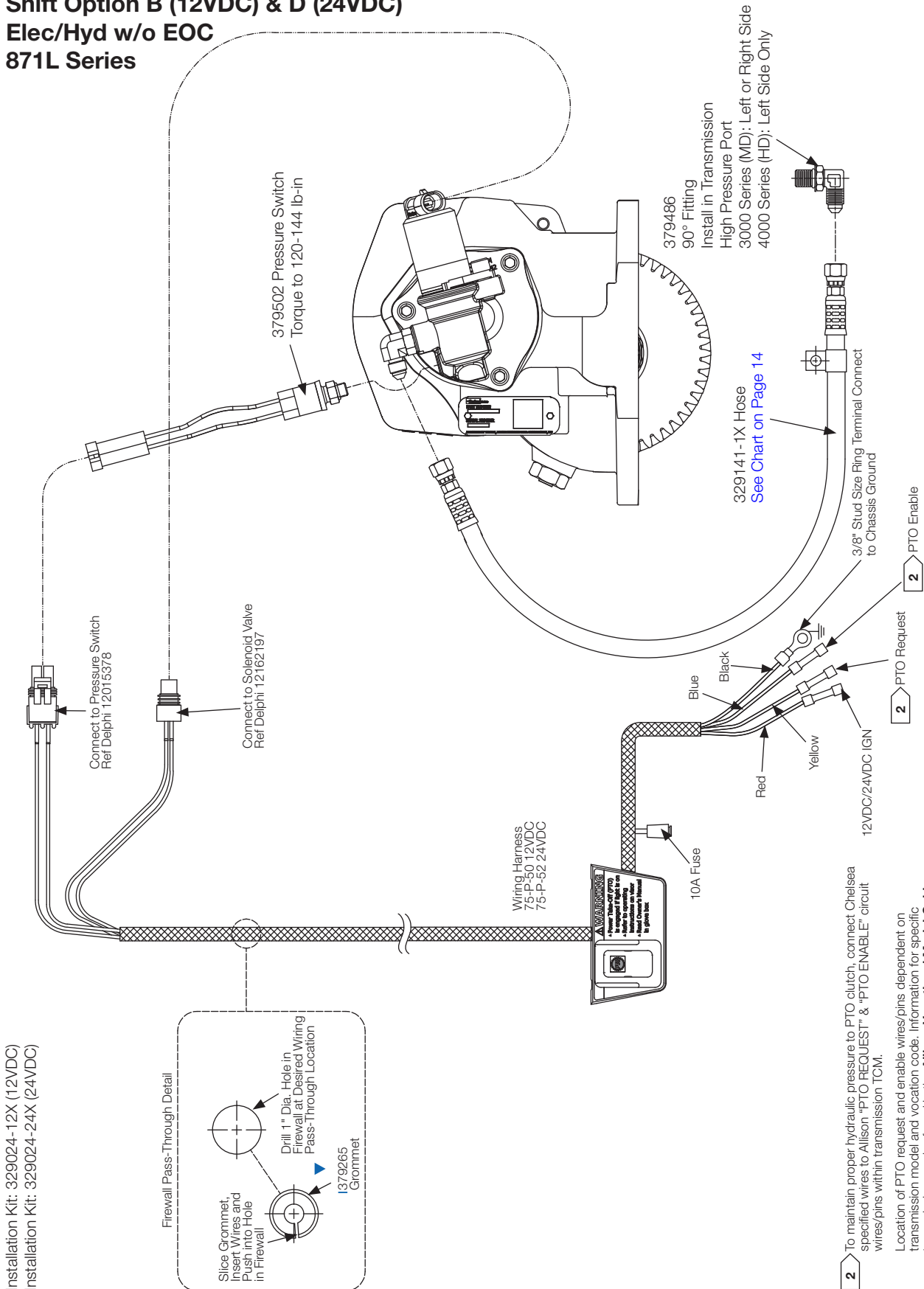
(SK-628)



Lube Line & Gasket Kit Chart	
Output Option	Lube Line & Gasket Kit
TK, TF, TZ	329925-1X
TS	329925-2X
TY	329925-3X

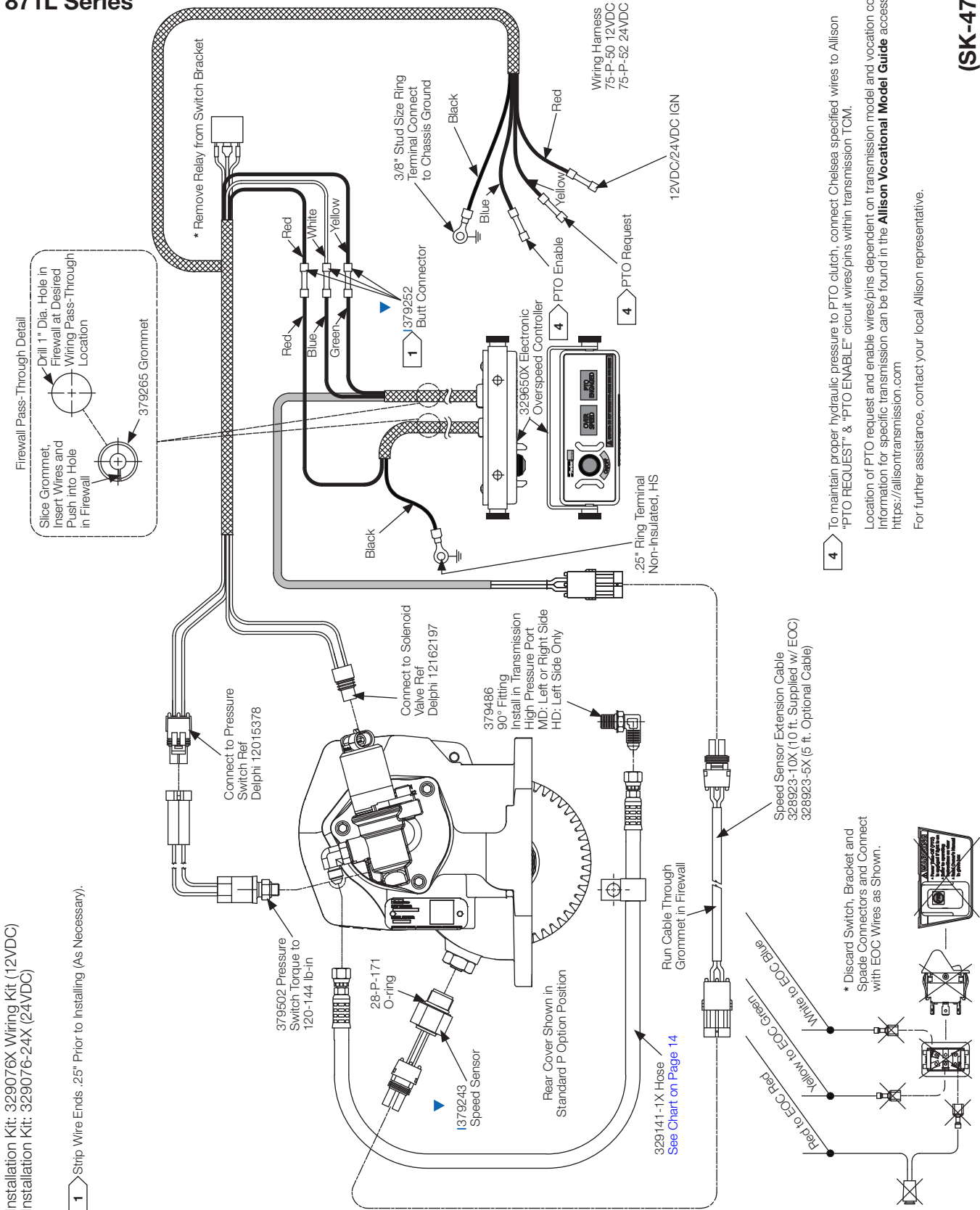
Installation Sketches

Allison Transmission Shift Option B (12VDC) & D (24VDC) Elec/Hyd w/o EOC 871L Series



Installation Kit: 329024-12X (12VDC)
Installation Kit: 329024-24X (24VDC)

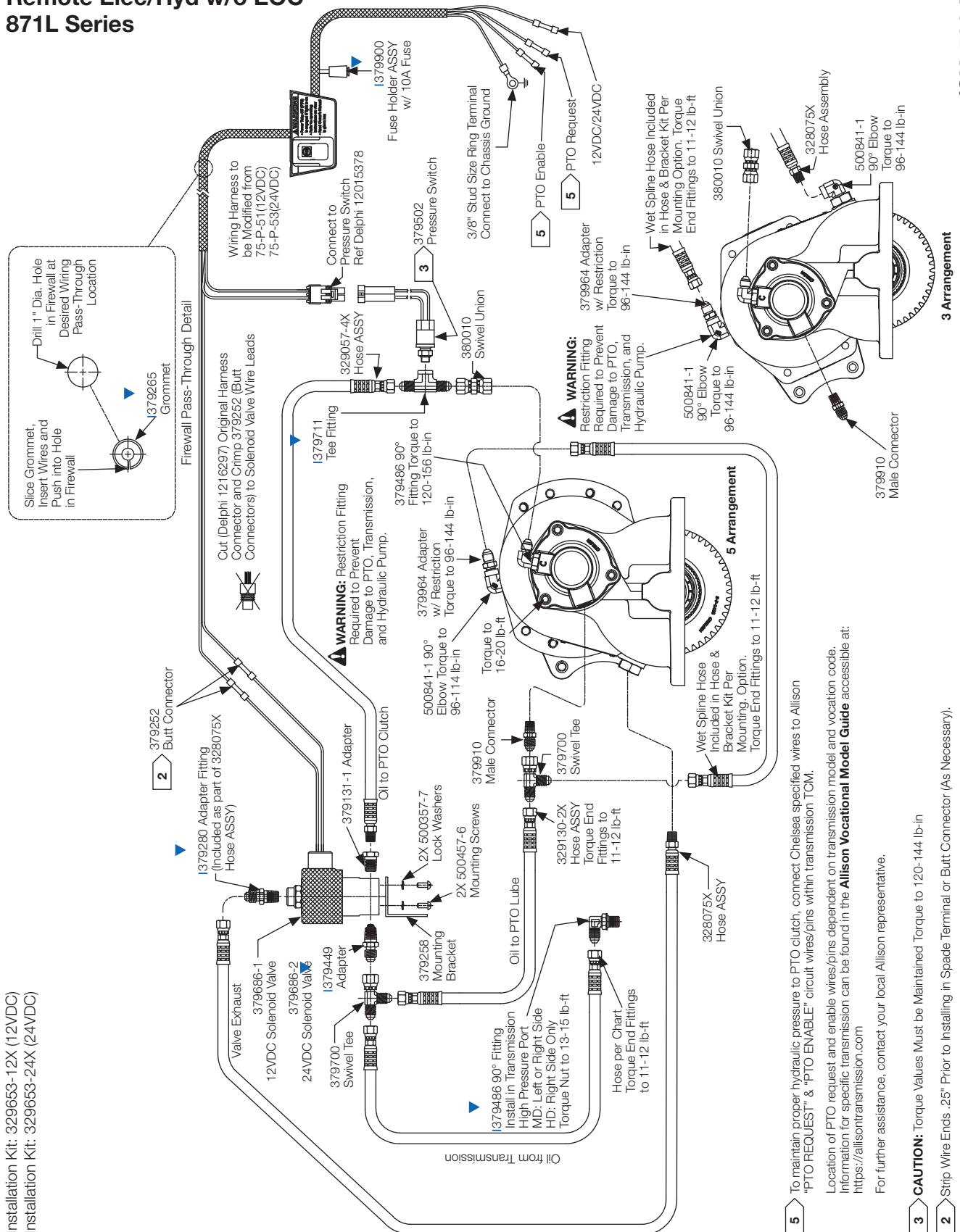
Installation Sketches

**Allison Transmission
Shift Option K (12VDC) & L (24VDC)
Elec/Hyd w/ EOC
871L Series****(SK-472 Rev F)**

Installation Sketches

**Allison Transmission
Shift Option G (12VDC) & H (24VDC)
Remote Elec/Hyd w/o EOC
871L Series**

(SK-503 Rev D)



Installation Kit: 329653-12X (12VDC)
Installation Kit: 329653-24X (24VDC)

5 To maintain proper hydraulic pressure to PTO clutch, connect Chelsea specified wires to Allison "PTO REQUEST" & "PTO ENABLE" circuit wires/pins within transmission TCM.

Location of PTO request and enable wires/pins dependent on transmission model and vocation code. Information for specific transmission can be found in the **Allison Vocation Model Guide** accessible at: <https://allisontransmission.com>

For further assistance, contact your local Allison representative.

3 CAUTION: Torque Values Must be Maintained Torque to 120-144 lb-in

2 Strip Wire Ends .25" Prior to Installing in Spade Terminal or Butt Connector (As Necessary).

NOTES: This Option is Not Available with Nor Can It Be Used on EOC Applications.

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Kits Bill of Materials

BOMs in each kit group are listed in order based on part number.

Parts List

871L/878L Series

Kits Bill of Materials

Part Number	Description	Qty.	Part Number	Description	Qty.
INSTALLATION KITS			INSTALLATION KITS (Cont'd)		
► 329024-12X	12VDC Installation Kit (B Shift) (871-XL Series)		► 329650X	Electronic Overspeed Control (K, L Shift) (871-XL Series)	
380672	(.250") Female Spade Connector.....	3	328923-10X	Speed Sensor Cable - 10 ft.....	1
► 380668X	Bracket & Label Assembly.....	1		(.250"-20) NC Hex Bolt x 1" Lg.....	2
► 379061	Plastic Wire Tie.....	6		(.250") Flat Washer.....	2
► 379252	Electrical Butt Connector.....	1		(.250") Lock Washer.....	2
► 379257	Electrical Connector.....	2		(.250") Hex Nut.....	2
► 379265	Grommet.....	1	Owner's Manual	HY25-1650-M1/US (5.500" x 7.500").....	1
75-P-45-12	Electrical Light Rocker Switch.....	1			
SK-347	Installation Sketch.....	1			
► 379502	Pressure Switch.....	1			
► 379504	Electrical Valve Connector.....	1			
► 379900	Fuse Holder Assembly.....	1			
► 379254-17	Electrical Wire 14G Fork.....	1			
► 329024-24X	24VDC Installation Kit (D Shift) (871-XL Series)				
75-P-45-24	Electrical Rocker Switch.....	1			
► 379252	Electrical Butt Connector.....	1			
► 379257	Electrical Speed Limiter Connector.....	2			
► 379265	Grommet.....	1			
380672	Female Connector (.250") Spade.....	3			
► 380668X	Bracket and Label Assembly.....	1			
► 379502	Pressure Switch.....	1			
► 379900	Fuse Holder Assembly.....	1			
► 379504	Electrical Valve Connector.....	1			
► 379254-17	Electrical Wire 14G Fork.....	1			
► 379061	Plastic Wire Tie.....	6			
SK-347	Hydraulic Shift Installation Sketch.....	1			
► 329076X	12VDC Installation Kit w/ EOC (K & L Shift) (871-XL Series)				
► 379061	Plastic Wire Tie Assembly.....	1			
► 379252	Electrical Butt Connector.....	1			
► 379257	Electrical Speed Limiter Connector.....	1			
► 379265	Grommet with Speed Control.....	1			
► 379502	Pressure Switch.....	1			
► 379504	Valve Connector and Wire.....	1			
► 75-P-46X	Wire and Connectors Kit.....	1			
329076-24X	24VDC Installation Kit w/ EOC (K & L Shift) (871-XL Series)				
► 379252	Electrical Butt Connector.....	1			
► 379265	Grommet w/ Speed Control.....	1			
► 379502	Pressure Switch.....	1			
SK-472	Installation Sketch w/ EOC.....	1			
► 75-P-53	24VDC Wire Harness Assembly.....	1			

BOMs in each kit group are listed in order based on part number.

Continued on Next Page

Parts List

871L/878L Series

Kits Bill of Materials

Part Number	Description	Qty.	Part Number	Description	Qty.
INSTALLATION KITS (Cont'd)			SERVICE KITS		
329930-24X	24VDC Remote Valve Installation w/o EOC Kit (G Shift) (871-XL Series)		329929-1X	Gasket & Seal Kit (871-XL Series)	
329230X	Wire & Butt Electrical Connector.....	1	22-P-112	Valve Cap Gasket.....	1
► 329231X	Valve Connector Wire Assembly.....	1	22-P-151	Shim Gasket.....	1
► 378881	Rocker Switch.....	1	28-P-119	Oil Seal (1.379" x .875" x .250").....	1
379005	24VDC Indicator Light.....	1	28-P-178	O-ring (4.359" x .138").....	1
► 379131-1	Pipe Reducer Bushing (1.125"-27 x .250"-18).....	1	28-P-252	O-ring (2.987" x .103").....	1
► 379252	Electrical Speed Limiter Butt Connector.....	3	28-P-285	O-ring (1.597" x .103").....	2
► 379257	Instant Electrical Connector.....	1	28-P-42	O-ring (1.051" x .070").....	1
► 379258	Mounting Bracket.....	1	35-P-101	Wet Spline Bearing Cap Gasket.....	1
► 379265	Grommet.....	1	35-P-74	Shim Gasket.....	1
► 379306	Insolated Fork Terminal.....	3	378263	Internal Lockring.....	1
► 379336	Switch Bracket.....	1	378849	Lockring.....	1
► 379449	Male Connector.....	1	379555	Lockring.....	2
► 379502	Pressure Switch.....	1	379746	Lockring.....	1
► 379686-2	24VDC Hydraulic Shifter Solenoid Valve.....	1	380069	Lockring.....	1
► 379700	Swivel Nut Fitting.....	2	28-P-329	O-ring (5.487" x .103").....	1
► 379711	Tee (.375"-24 x .438"-20 x .438"-20).....	1	329929-2X	Bearing Kit (871-XL Series)	
► 379900	Fuse Holder Assembly.....	1	14-P-82-1	Spacer (1.191" x 1.750" x .080").....	2
► 380010	Union Fitting.....	1	14-P-82-2	Spacer (1.191" x 1.750" x .085").....	1
► 500357-7	Lock Washer (.194" x .337" x .047").....	2	14-P-82-3	Spacer (1.191" x 1.750" x .090").....	1
► 500457-6	Round HD Slotted Screw (.191"-32 x .438").....	2	378263	Internal Lockring.....	1
SK-627	Remote Solenoid Installation Sketch.....	1	379555	Lockring.....	3
► 379254-17	Fork Terminal and Wire.....	1	379746	Lockring.....	1
			550311	Ball Bearing (1.770" x 3.346" x .748").....	1
			560972	Needle Roller Bearing Assembly (1.500" x 1.875" x 1.000").....	1
			561018	Ball Bearing (1.772" x 2.953" x .630").....	1
			561026	Tapered Cone Bearing (1.181" x .984").....	2
			561047	Needle Roller Bearing (1.500" x 2.062" x 1.250").....	1
			329929-3X	Gasket & Seal Kit (878-XL Series)	
			22-P-112	Valve Cap Gasket.....	1
			22-P-151	Shim Gasket.....	1
			28-P-252	O-ring (2.987" x .103").....	1
			28-P-42	O-ring (1.051" x .070").....	1
			35-P-101	Wet Spline Bearing Cap Gasket.....	1
			35-P-74	Shim Gasket.....	1
			28-P-329	O-ring (5.487" x .103").....	1
			329929-4X	Bearing Kit (878-XL Series)	
			14-P-82-1	Spacer (1.191" x 1.750" x .080").....	2
			14-P-82-2	Spacer (1.191" x 1.750" x .085").....	1
			14-P-82-3	Spacer (1.191" x 1.750" x .090").....	1
			378263	Internal Lockring.....	1
			379555	Lockring.....	2
			550311	Ball Bearing (1.770" x 3.346" x .748").....	1
			561018	Ball Bearing (1.772" x 2.953" x .630").....	1
			561026	Tapered Cone Bearing (1.181" x .984").....	2
			561047	Needle Roller Bearing (1.500" x 2.062" x 1.250").....	1
			► 329678X	Inner Hub Gear & Clutch Plates Kit (871-XL Series)	
			379485	Friction Disc.....	11
			380065	Clutch Plate.....	10
			2-P-858	Output Gear (36T).....	1

Continued on Next Page

BOMs in each kit group are listed in order based on part number.

Kits Bill of Materials

Part Number	Description	Qty.
CONVERSION KITS		
► <u>329354-12X</u>	12VDC Remote Valve Conversion Kit (B Shift) (871-XL Series)	
► <u>22-P-112</u>	Valve Cap Gasket	1
► <u>500457-6</u>	Round Head Slotted Screw (.191"-32 x .438")	2
► <u>500357-7</u>	Lock Washer (.337" x .190" x .047")	2
► <u>379686-1</u>	12VDC Hydraulic Shifter Solenoid Valve.....	1
► <u>379449</u>	Male Connector (.438"-20 x .250"-18)	2
► <u>379258</u>	Mounting Solenoid Valve Bracket.....	1
► <u>379564-2</u>	Shipping Cap	2
► <u>329231X</u>	Valve Connector Wire Assembly	1
► <u>329230X</u>	Electrical Wire and Butt Connector	1
► <u>328075X</u>	Hose Assembly (36")	1
► <u>379700</u>	Swivel Nut Tee (.438"-20)	1
► <u>380010</u>	Female SAE Swivel Nut Union (.438"-20)	1
► <u>379486</u>	90° Elbow (.438"-20)	1
► <u>329403X</u>	Seal Cap Assembly	1
► <u>379711</u>	Tee (.375"-24 x .438"-20 x .438"-20)	1
► <u>379131-1</u>	Pipe Reducer Bushing	1
► SK-432	12VDC Remote Solenoid Installation Kit	1
► <u>329057-4X</u>	Hose Length Assembly (16.75")	2
► <u>329354-24X</u>	24VDC Remote Valve Conversion Kit (D Shift) (871-XL Series)	
► <u>22-P-112</u>	Valve Cap Gasket	1
► <u>500457-6</u>	Round Head Slotted Screw (.191"-32 x .438")	2
► <u>500357-7</u>	Lock Washer (.337" x .190" x .047")	2
► <u>379686-2</u>	24VDC Hydraulic Shifter Solenoid Valve.....	1
► <u>379449</u>	Male Connector (.438"-20 x .250"-18)	1
► <u>379258</u>	Mounting Solenoid Valve Bracket.....	1
► <u>379564-2</u>	Shipping Cap	2
► <u>329231X</u>	Valve Connector Wire Assembly	1
► <u>329230X</u>	Electrical Wire and Butt Connector	1
► <u>328075X</u>	Hose Assembly (36")	1
► <u>379700</u>	Swivel Nut Tee (.438"-20)	1
► <u>380010</u>	Female SAE Swivel Nut Union (.438"-20)	1
► <u>379486</u>	90° Elbow (.438"-20)	1
► <u>329403X</u>	Seal Cap Assembly	1
► <u>379711</u>	Tee (.375"-24 x .438"-20 x .438"-20)	1
► <u>379131-1</u>	Pipe Reducer Bushing	1
► SK-432	24VDC Remote Solenoid Installation Kit	1
► <u>329057-4X</u>	Hose Length Assembly (16.75")	2

BOMs in each kit group are listed in order based on part number.

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Offer of Sale

WARNING: This product can expose you to chemicals including Lead and Lead Compounds, and Di(2-ethylhexyl)phthalate (DEHP) which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

1. Definitions. As used herein, the following terms have the meanings indicated.

Buyer: means any customer receiving a Quote for Products.

Buyer's Property: means any tools, patterns, plans, drawings, designs, specifications materials, equipment, or information furnished by Buyer, or which are or become Buyer's property.

Confidential Information: means any technical, commercial, or other proprietary information of Seller, including, without limitation, pricing, technical drawings or prints and/or part lists, which has been or will be disclosed, delivered, or made available, whether directly or indirectly, to Buyer.

Goods: means any tangible part, system or component to be supplied by Seller.

Intellectual Property Rights: means any patents, trademarks, copyrights, trade dress, trade secrets or similar rights.

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Quote: means the offer or proposal made by Seller to Buyer for the supply of Products.

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governed solely by these Terms and the specific terms in Seller's Quote.

3. Price; Payment. The Products set forth in the Quote are offered for sale at the prices indicated in the Quote. Unless otherwise specifically stated in the Quote, prices are valid for thirty (30) days and do not include any sales, use, or other taxes or duties. Seller reserves the right to modify prices for any reason and at any time by giving ten (10) days prior written notice. Unless otherwise specified by Seller, all prices are F.C.A. Seller's facility (INCOTERMS 2020). All sales are contingent upon credit approval and full payment for all purchases is due thirty (30) days from the date of invoice (or such date as may be specified in the Quote). Under any circumstances, Buyer may not withhold or suspend payment of any amounts due and payable as a deduction, set-off or recoupment of any amount, claim or dispute with Seller. Unpaid invoices beyond the specified payment date incur interest at the rate of 1.5% per month or the maximum allowable rate under applicable law. Seller reserves the right to require advance payment or provision of securities for first and subsequent deliveries if there is any doubt, in Seller's sole determination, regarding the Buyer's creditworthiness or for other business reasons. If the requested advance payment or securities are not provided to Seller's satisfaction, Seller reserves the right to suspend performance or reject the purchase order, in whole or in part, without prejudice to Seller's other rights or remedies, including the right to full compensation. Seller may revoke or shorten any payment periods previously granted in Seller's sole determination. The rights and remedies herein reserved to Seller are cumulative and in addition to any other or further rights and remedies available at law or in equity. No waiver by Seller of any breach by Buyer of any provision of these terms will constitute a waiver by Seller of any other breach of such provision.

4. Shipment; Delivery; Title and Risk of Loss. All delivery dates are approximate, and Seller is not responsible for damages or additional costs resulting from any delay. All deliveries are subject to our ability to procure materials from our suppliers. Regardless of the manner of shipment, delivery occurs and title and risk of loss or damage pass to Buyer, upon placement of the Products with the carrier at Seller's facility. Unless otherwise agreed prior to shipment and for domestic delivery locations only, Seller will select and arrange, at Buyer's sole expense, the carrier and means of delivery. When Seller selects and arranges the carrier and means of delivery, freight and insurance costs for shipment to the designated delivery location will be prepaid by Seller and added as a separate line item to the invoice. Buyer shall be responsible for any additional shipping charges incurred by Seller due to Buyer's acts or omissions. Buyer shall not return or repackage any Products without the prior written authorization from Seller, and any return shall be at the sole cost and expense of Buyer.

5. Warranty. The warranty for the Products is as follows:

(i) Seller warrants that all products sold conform to the applicable Parker Chelsea standard specification for the lesser period of 2 years (24 Months) from date of service or 2-1/2 years (30 Months) from date of build (as marked on the product name plate); (ii) Services shall be performed in accordance with generally accepted practices and using the degree of care and skill that is ordinarily exercised and customary in the field to which the Services pertain and are warranted for a period of six (6) months from the date of completion of the Services; and (iii) Software is only warranted to perform in accordance with applicable specifications provided by Seller to Buyer for ninety (90) days from the date of delivery or, when downloaded by a Buyer or end-user, from the date of the initial download. All prices are based upon the exclusive limited warranty stated above, and upon the following disclaimer:

EXEMPTION CLAUSE; DISCLAIMER OF WARRANTY, CONDITIONS, REPRESENTATIONS: THIS WARRANTY IS THE SOLE AND ENTIRE WARRANTY, CONDITION, AND REPRESENTATION, PERTAINING TO PRODUCTS. SELLER

Continued on Next Page

Offer of Sale (Cont'd)

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6. Claims; Commencement of Actions. Buyer shall promptly inspect all Products upon receipt. No claims for shortages will be allowed unless reported to Seller within ten (10) days of delivery. Buyer shall notify Seller of any alleged breach of warranty within thirty (30) days after the date the non-conformance is or should have been discovered by Buyer. Any claim or action against Seller based upon breach of contract or any other theory, including tort, negligence, or otherwise must be commenced within twelve (12) months from the date of the alleged breach or other alleged event, without regard to the date of discovery.

7. LIMITATION OF LIABILITY. IN THE EVENT OF A BREACH OF WARRANTY, SELLER WILL, AT ITS OPTION, REPAIR OR REPLACE THE NON-CONFORMING PRODUCTS, RE-PERFORM THE SERVICES, OR REFUND THE PURCHASE PRICE PAID WITHIN A REASONABLE PERIOD OF TIME. IN NO EVENT IS SELLER LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING ANY LOSS OF REVENUE OR PROFITS, WHETHER BASED IN CONTRACT, TORT OR OTHER LEGAL THEORY. IN NO EVENT SHALL SELLER'S LIABILITY UNDER ANY CLAIM MADE BY BUYER EXCEED THE PURCHASE PRICE PAID FOR THE PRODUCTS.

8. Confidential Information. Buyer acknowledges and agrees that Confidential Information has been and will be received in confidence and will remain the property of Seller. Buyer further agrees that it will not use Seller's Confidential Information for any purpose other than for the benefit of Seller and shall return all such Confidential Information to Seller within thirty (30) days upon request.

9. Loss to Buyer's Property. Buyer's Property will be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer ordering the Products manufactured using Buyer's Property. Also, Seller shall not be responsible for any loss or damage to Buyer's Property while it is in Seller's possession or control.

10. Special Tooling. Seller may impose a tooling charge for any Special Tooling. Special Tooling shall be and remain Seller's property. In no event will Buyer acquire any interest in the Special Tooling, even if such Special Tooling has been specially converted or adapted for manufacture of Goods for Buyer and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller has the right to alter, discard or otherwise dispose of any Special Tooling or other property owned by Seller in its sole determination at any time.

11. Security Interest. To secure payment of all sums due from Buyer, Seller retains a security interest in all Products delivered to Buyer and, Buyer's acceptance of these Terms is deemed to be a Security Agreement under the Uniform Commercial Code. Buyer authorizes Seller as its attorney to execute and file on Buyer's behalf all documents Seller deems necessary to perfect Seller's security interest.

12. User Responsibility. Buyer, through its own analysis and testing, is solely responsible for making the final selection of the Products and assuring that all performance, endurance, maintenance, safety and warning requirements of the application of the Products are met. Buyer must analyze all aspects of the application and follow applicable industry standards, specifications, and any technical information provided with the Quote or the Products, such as Seller's instructions, guides and specifications. If Seller provides options of or for Products based upon data

or specifications provided by Buyer, Buyer is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the Products. In the event Buyer is not the end-user of the Products, Buyer will ensure such end-user complies with this paragraph.

13. Use of Products, Indemnity by Buyer. Buyer shall comply with all instructions, guides and specifications provided by Seller with the Quote or the Products. If Buyer uses or resells the Products in any way prohibited by Seller's instructions, guides or specifications, or Buyer otherwise fails to comply with Seller's instructions, guides and specifications, Buyer acknowledges that any such use, resale, or non-compliance is at Buyer's sole risk. Further, Buyer shall indemnify, defend, and hold Seller harmless from any losses, claims, liabilities, damages, lawsuits, judgments and costs (including attorney fees and defense costs), whether for personal injury, property damage, intellectual property infringement or any other claim, arising out of or in connection with: (a) improper selection, design, specification, application, or any misuse of Products; (b) any act or omission, negligent or otherwise, of Buyer; (c) Seller's use of Buyer's Property; (d) damage to the Products from an external cause, repair or attempted repair by anyone other than Seller, failure to follow instructions, guides and specifications provided by Seller, use with goods not provided by Seller, or opening, modifying, deconstructing, tampering with or repackaging the Products; or (e) Buyer's failure to comply with these Terms, including any legal or administrative proceedings, collection efforts, or other actions arising from or relating to such failure to comply. Seller shall not indemnify Buyer under any circumstance except as otherwise provided in these Terms.

14. Cancellations and Changes. Buyer may not cancel or modify, including but not limited to movement of delivery dates for the Products, any order for any reason except with Seller's written consent and upon terms that will indemnify, defend and hold Seller harmless against all direct, incidental and consequential loss or damage and any additional expense. Seller, at any time, may change features, specifications, designs and availability of Products.

15. Assignment. Buyer may not assign its rights or obligations without the prior written consent of Seller.

16. Force Majeure. Seller is not liable for delay or failure to perform any of its obligations by reason of any events or circumstances beyond its reasonable control. Such circumstances include without limitation: accidents, labor disputes or stoppages, government acts or orders, acts of nature, pandemics, epidemics, other widespread illness, or public health emergency, cyber related disruptions, cyber-attacks, ransomware sabotage, delays or failures in delivery from carriers or suppliers, shortages of materials, sudden increases in the price of raw material or components, shutdowns or slowdowns affecting the supply of raw materials or components, or the transportation thereof, oil shortages or oil price increases, energy crisis, energy or fuel interruption, war (whether declared or not) or the serious threat of same, riots, rebellions, acts of terrorism, embargoes, fire or any reason whether similar to the foregoing or otherwise. Seller will resume performance as soon as practicable after the event of force majeure has been removed. All delivery dates affected by an event of force majeure shall be tolled for the duration of such event of force majeure and rescheduled for mutually agreed dates as soon as practicable after the event of force majeure ceases to exist. The right to allocate capacity is in the Seller's sole discretion. An event of force majeure shall not include financial distress, insolvency, bankruptcy, or other similar conditions affecting one of the parties, affiliates and/or subcontractors. An event of force majeure in the meaning of these Terms means any circumstances beyond Seller's control that permanently or temporarily hinders performance, even where that circumstance was already foreseen. Buyer shall not be entitled to cancel any orders following its claim of an event of force majeure.

17. Waiver and Severability. Failure to enforce any provision of these Terms will not invalidate that provision; nor will any such

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failure prejudice either party's right to enforce that provision in the future. Invalidation of any provision of these Terms shall not invalidate any other provision herein and, the remaining provisions will remain in full force and effect.

18. Duration. Unless otherwise stated in the Quote, any agreement governed by or arising from these Terms shall: (a) be for an initial duration of one (1) year; and (b) shall automatically renew for successive one-year terms unless terminated by Buyer with at least 180-days written notice to Seller or if Seller terminates the agreement pursuant to Section 19 of these Terms.

19. Termination. Seller may, without liability to Buyer, terminate any agreement governed by or arising from these Terms for any reason and at any time by giving Buyer thirty (30) days prior written notice. Seller may immediately terminate, in writing, if Buyer: (a) breaches any provision of these Terms, (b) becomes or is deemed insolvent, (c) appoints or has appointed a trustee, receiver or custodian for all or any part of Buyer's property, (d) files a petition for relief in bankruptcy on its own behalf, or one is filed against Buyer by a third party, (e) makes an assignment for the benefit of creditors; or (f) dissolves its business or liquidates all or a majority of its assets.

20. Ownership of Rights. Buyer agrees that (a) Seller (and/or its affiliates) owns or is the valid licensee of Seller's IP and (b) the furnishing of information, related documents or other materials by Seller to Buyer does not grant or transfer any ownership interest or license in or to Seller's IP to Buyer, unless expressly agreed in writing. Without limiting the foregoing, Seller retains ownership of all Software supplied to Buyer. In no event shall Buyer obtain any greater right in and to the Software than a right in a license limited to the use thereof and subject to compliance with any other terms provided with the Software. Buyer further agrees that it will not, directly or through intermediaries, reverse engineer, decompile, or disassemble any Software (including firmware) comprising or contained within a Product, except and only to the extent that such activity may be expressly permitted, either by applicable law or, in the case of open-source software, the applicable open-source license.

21. Indemnity for Infringement of Intellectual Property Rights. Seller is not liable for infringement of any Intellectual Property Rights except as provided in this Section. Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on a third-party claim that one or more of the Products infringes the Intellectual Property Rights of a third party in the country of delivery of the Products by Seller to Buyer. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of any such claim, and Seller having sole control over the defense of the claim including all negotiations for settlement or compromise. If one or more Products is subject to such a claim, Seller may, at its sole expense and option, procure for Buyer the right to continue using the Products, replace or modify the Products to render them non-infringing, or offer to accept return of the Products and refund the purchase price less a reasonable allowance for depreciation. Seller has no obligation or liability for any claim of infringement: (i) arising from information provided by Buyer (including Seller's use of Buyer's Property); or (ii) directed to any Products for which the designs are specified in whole or part by Buyer; or (iii) resulting from the modification, combination or use in a system of any Products. The foregoing provisions of this Section constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for claims of infringement of Intellectual Property Rights.

22. Governing Law. These Terms, the terms of any Quote, and the sale and delivery of all Products are deemed to have taken place in, and shall be governed and construed in accordance with, the laws of the State of Ohio, as applicable to contracts executed and wholly performed therein and without regard to conflicts of laws principles. Buyer irrevocably agrees and consents to the exclusive jurisdiction and venue of the courts of Cuyahoga County, Ohio with respect to any dispute, controversy or claim arising out of or relating to the sale

and delivery of the Products.

23. Entire Agreement. These Terms, along with the terms set forth in the Quote, forms the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive expression of the terms of sale and purchase. In the event of a conflict between any term set forth in the Quote and these Terms, the terms set forth in the Quote shall prevail. All prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter shall have no effect. No modification to these Terms will be binding on Seller unless agreed to in a writing that is signed by an authorized representative of Seller, excluding email correspondence, 'clickwrap' or other purported electronic assent to different or additional terms. Sections 2-25 of these Terms shall survive termination or cancellation of any agreement governed by or arising from these Terms.

24. No 'Wrap' Agreements/No Authority to Bind. Seller's clicking any buttons or any similar action, such as clicking "I Agree" or "Confirm," to utilize Buyer's software or webpage for the placement of orders, is NOT an agreement to Buyer's Terms and Conditions. **NO EMPLOYEE, AGENT OR REPRESENTATIVE OF SELLER HAS THE AUTHORITY TO BIND SELLER BY THE ACT OF CLICKING ANY BUTTON OR SIMILAR ACTION ON BUYER'S WEBSITE OR PORTAL.**

25. Compliance with Laws. Buyer agrees to comply with all applicable laws, regulations, and industry and professional standards, including those of the United States of America, and the country or countries in which Buyer may operate, including without limitation the U.S. Foreign Corrupt Practices Act ("FCPA"), the U.S. Anti-Kickback Act ("Anti-Kickback Act"), U.S. and E.U. export control and sanctions laws ("Export Laws"), the U.S. Food Drug and Cosmetic Act ("FDCA"), and the rules and regulations promulgated by the U.S. Food and Drug Administration ("FDA"), each as currently amended. Buyer agrees to indemnify, defend, and hold harmless Seller from the consequences of any violation of such laws, regulations and standards by Buyer, its employees or agents. Buyer represents that it is familiar with all applicable provisions of the FCPA, the Anti-Kickback Act, Export Laws, the FDCA and the FDA and certifies that Buyer will adhere to the requirements thereof and not take any action that would make Seller violate such requirements. Buyer represents and agrees that Buyer will not make any payment or give anything of value, directly or indirectly, to any governmental official, foreign political party or official thereof, candidate for foreign political office, or commercial entity or person, for any improper purpose, including the purpose of influencing such person to purchase Products or otherwise benefit the business of Seller. Buyer further represents and agrees that it will not receive, use, service, transfer or ship any Products from Seller in a manner or for a purpose that violates Export Laws or would cause Seller to be in violation of Export Laws. Buyer agrees to promptly and reliably provide Seller all requested information or documents, including end-user statements and other written assurances, concerning Buyer's ongoing compliance with Export Law.

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