

250 Series

Pro Gear and Transmission

This document is the 250 Series section of Parker bulletin HY25-2250, which also covers the 251 Series.

It holds the 12 pages that apply to your unit, out of 17 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 17 page manual](https://www.pgtruckparts.com/content/manuals/chelsea/interactive/full/Chelsea-PTO-250-Series-Parts-Manual-Interactive-ALL-SERIES-17pp.pdf)

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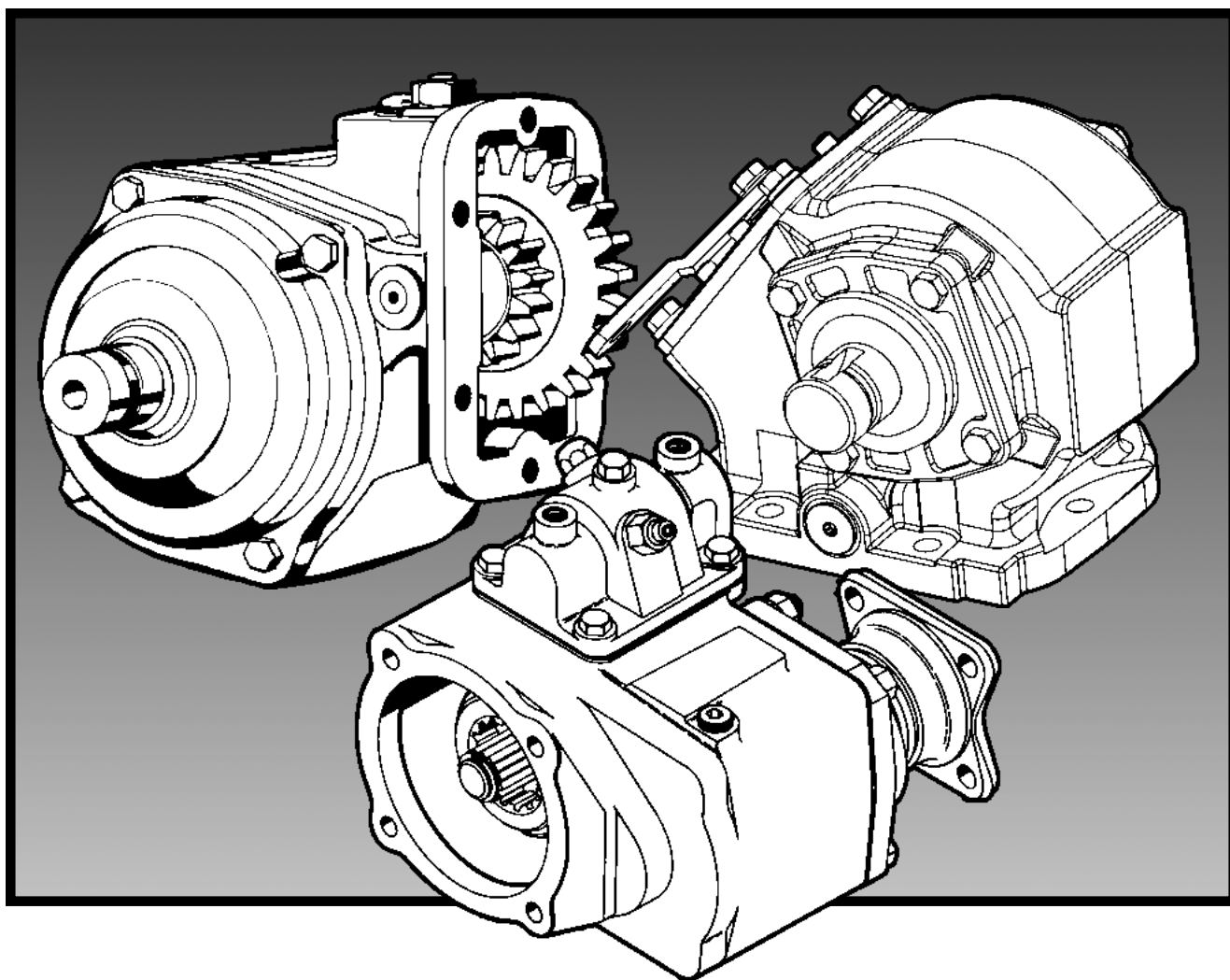
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Parts List 250/251 Series

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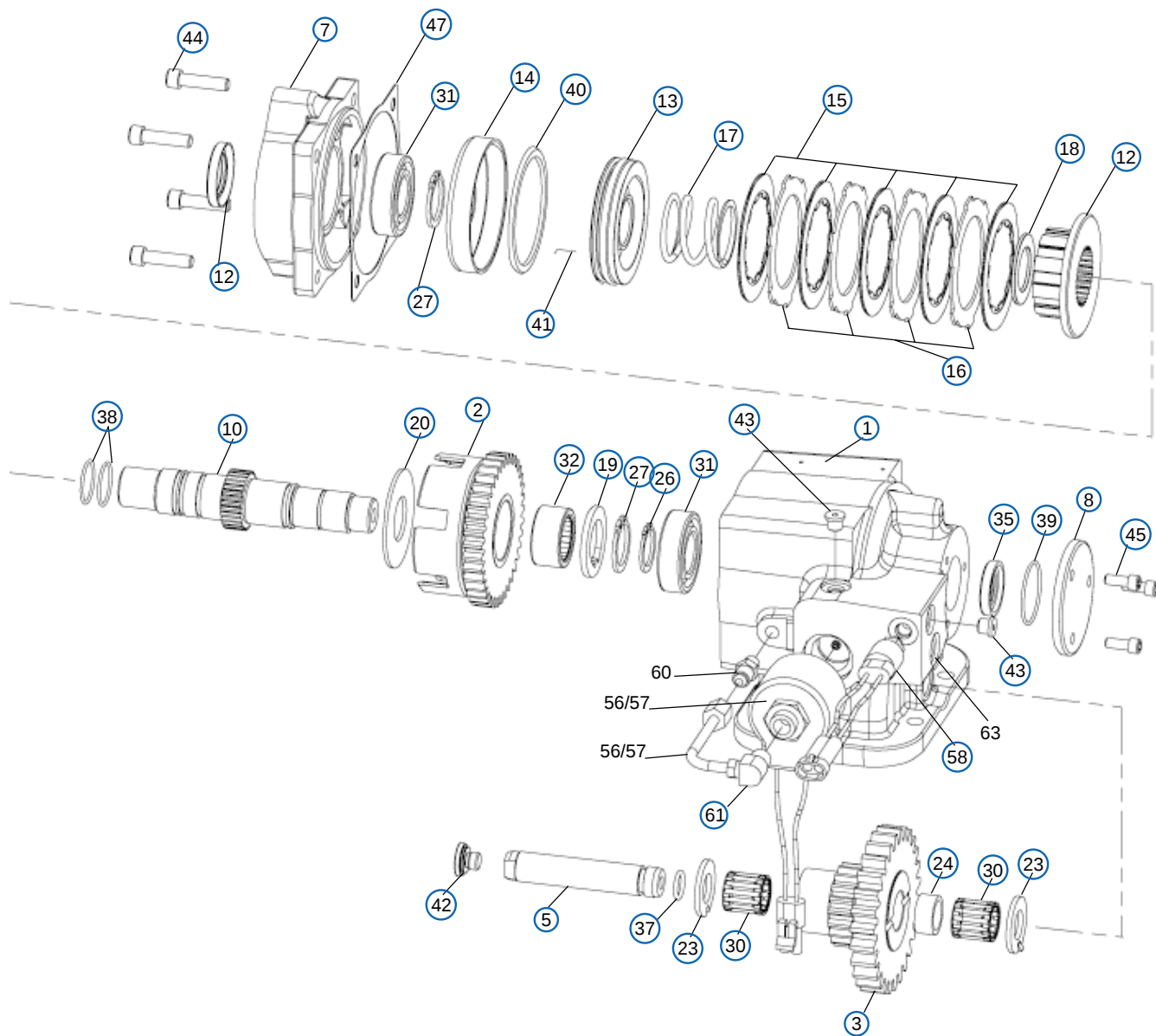
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Exploded View

Power Take-Offs

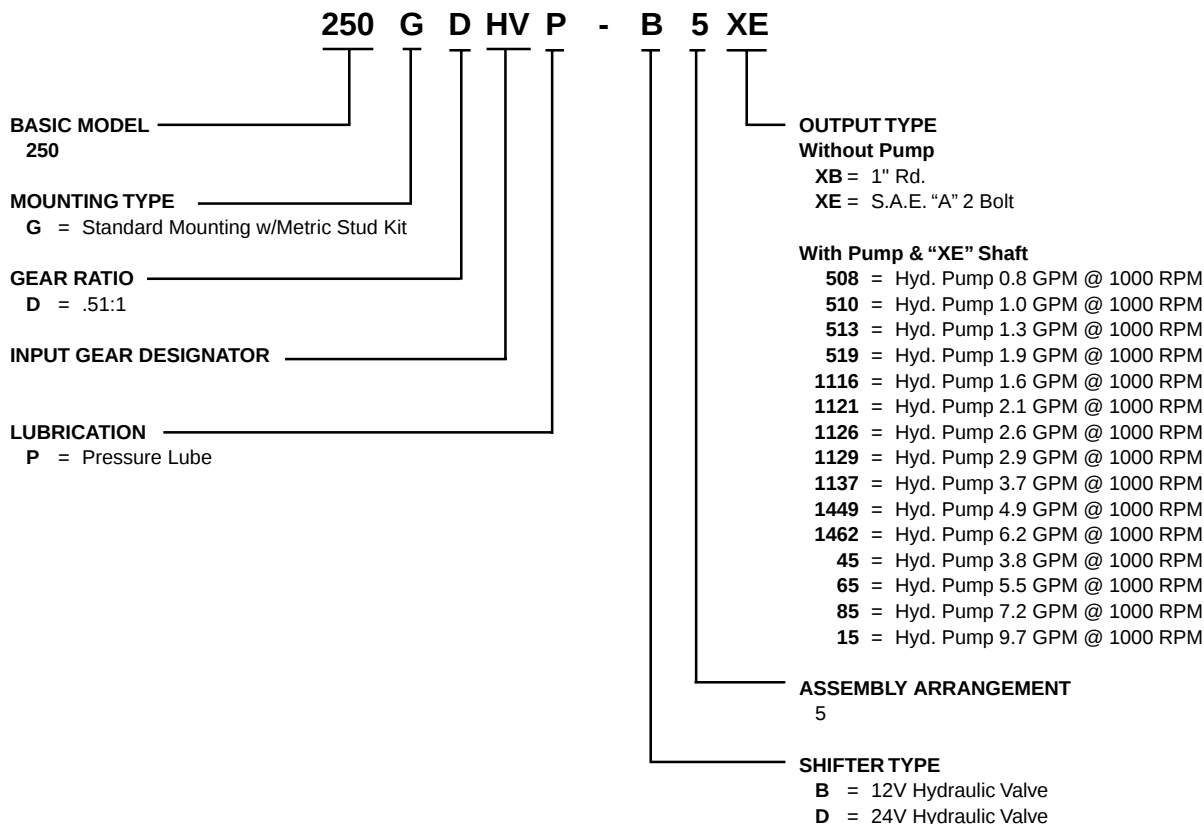
250/251 Series



Item	Part Number	Description	Quantity
1	1-P-576X	Housing Assembly	1
2	See Chart pg. 3	Output Bell Gear	1
3	See Chart pg. 3	Input Gear	1
5	► 9-P-90	Input Shaft (Pressure Lube)	1
7	► 21-P-635	Output Bearing Cap	1
8	► 34-P-129	End Cap	1
10	► 3-P-931	Output Shaft (.625-9 Tooth)	1
N.S.	3-P-934	1" Std. Keyed Output Shaft, "XB" Output	1
N.S.	500007-24	Woodruff Key, "XB" Output	1
12	2-P-776	Clutch Gear	1
13	379798	Clutch Piston	1
14	► 379705	Clutch Back-Up Cylinder	1
15	► 379691	Friction Plate	5
16	► 379692	Clutch Plate	4
17	► 37-P-56	Clutch Spring	1
18	► 31-P-108	Spacer, Clutch Spring	4
19	► 31-P-104	Thrust Washer	1
20	► 31-P-98	Clutch Spacer	1
23	► 31-P-97	Thrust Washer, Input Shaft	2
24	► 14-P-70	Spacer, Input Needle Bearings	1
26	► 379693	External Snap Ring, 1" Shaft OD	1
27	► 379694	External Snap Ring, 1.25" Shaft OD	2
30	► 550890	Needle Roller Bearing, Input Shaft	2
31	► 561005	Ball Bearing, Output Shaft	2
32	► 560998	Needle Roller Bearing, Output Gear	1
34	► 28-P-264	Oil Seal, Low Pressure	1
35	► 28-P-119	Oil Seal, High Pressure	1
37	► 28-P-191	O-Ring, Idler Shaft	1
38	► 28-P-266	O-Ring, Output Shaft	2
39	► 28-P-263	O-Ring, End Cap	1
40	► 28-P-265	Lip Seal, Piston	1
41	► 378856	Wriggle Wire	1
42	► 379672	NWD Plug	1
43	379754	Hex Socket Plug, O-Ring	2
44	379800	Hex Socket Head Capscrew, .312-18	4
45	► 379431-3	Hex Socket Head Capscrew, .250-20	3
47	► 22-P-109	Pump Flange Gasket	1
N.S.	68-P-2	Name Plate (Chelsea)	1
N.S.	378422	Drive Screw	2
55	379803	Tube Assembly (Solenoid Exhaust)	1
56	379797-1	Solenoid Valve, 12V "B" Shifter Type Only	1
57	379797-2	Solenoid Valve, 24V "D" Shifter Type Only	1
58	► 379502	Pressure Switch	1
60	C5205x4	Male Connector	1
61	379804	Male Elbow Fitting	1
N.S.	500897-3	Shipping Plug	1
Loose Parts			
	329291X	Installation & Caution Label Kit (Includes 35-P-41 Mtg Gasket)	1
	7170-102X	P.T.O. Mounting Kit	1
	329296-2X	12 Volt Installation Kit, "B" Shifter Type Only (see page 6)	1
	329296-3X	24 Volt Installation Kit, "D" Shifter Type Only (see page 6)	1
	329296-4X	Pump Mounting Kit, "XE" Output	1
	► 379812	Male Connector, Flare Fitting	1
	► 379486	90° Elbow (Straight Thread O-Ring)	1
	► 328075X	Pressure Lube Hose	1
	► 329141-1X	Hose Assembly	1

N.S. - Not Shown

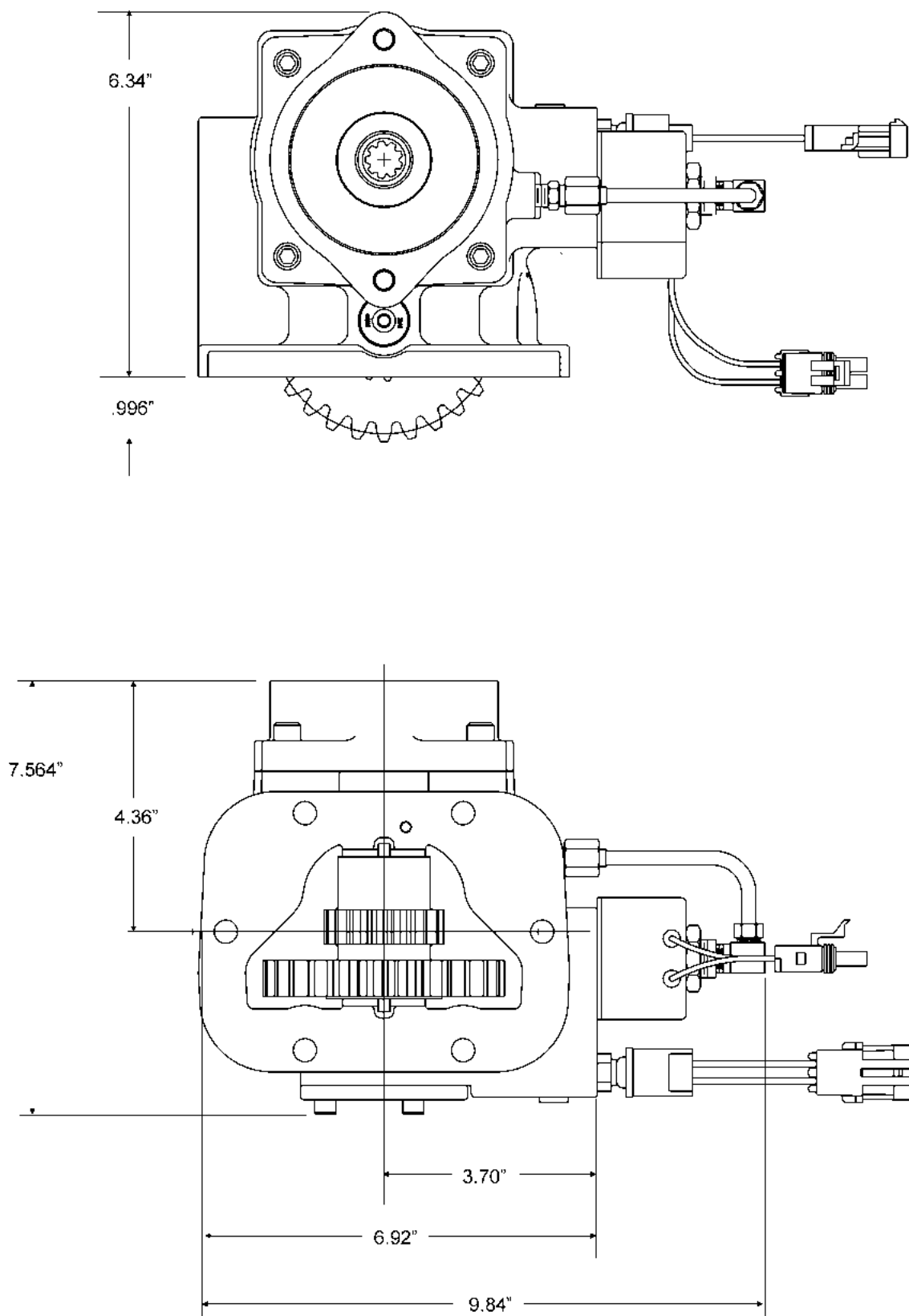
Model Number Designation



Output Type with Pump & "XE" Shaft	Description	Pump Part
508	Hydraulic Pump 0.8 GPM @ 1000 R.P.M.	CGP-P5C008-1AA
510	Hydraulic Pump 1.0 GPM @ 1000 R.P.M.	CGP-P5C010-1AA
513	Hydraulic Pump 1.3 GPM @ 1000 R.P.M.	CGP-P5C013-1AA
519	Hydraulic Pump 1.9 GPM @ 1000 R.P.M.	CGP-P5C019-1AA
1116	Hydraulic Pump 1.6 GPM @ 1000 R.P.M.	CGP-P11C016-1AC
1121	Hydraulic Pump 2.1 GPM @ 1000 R.P.M.	CGP-P11C021-1AC
1126	Hydraulic Pump 2.6 GPM @ 1000 R.P.M.	CGP-P11C026-1AC
1129	Hydraulic Pump 2.9 GPM @ 1000 R.P.M.	CGP-P11C029-1AC
1137	Hydraulic Pump 3.7 GPM @ 1000 R.P.M.	CGP-P11C037-1AC
1449	Hydraulic Pump 4.9 GPM @ 1000 R.P.M.	CGP-P14C049-1AE
1462	Hydraulic Pump 6.2 GPM @ 1000 R.P.M.	CGP-P14C062-1AE
45	Hydraulic Pump 3.8 GPM @ 1000 R.P.M.	P16-45C-1D6
65	Hydraulic Pump 5.5 GPM @ 1000 R.P.M.	P16-65C-1D6
85	Hydraulic Pump 7.2 GPM @ 1000 R.P.M.	P16-85C-1D6
15	Hydraulic Pump 9.7 GPM @ 1000 R.P.M.	P16-115C-1D6

Gear Chart

Model Number	Input Gear Part Number	No. Teeth Large Cluster	No. Teeth Small Cluster	Gear Type	Output Gear Part Number	No. Teeth	Transmissions
250*DHV	5-P-1294	27	19	Spur	► 2-P-782	37	Allison 1000, 2000/2400



250 Series Installation Sketch 12 & 24 Volt without Speed Limiter

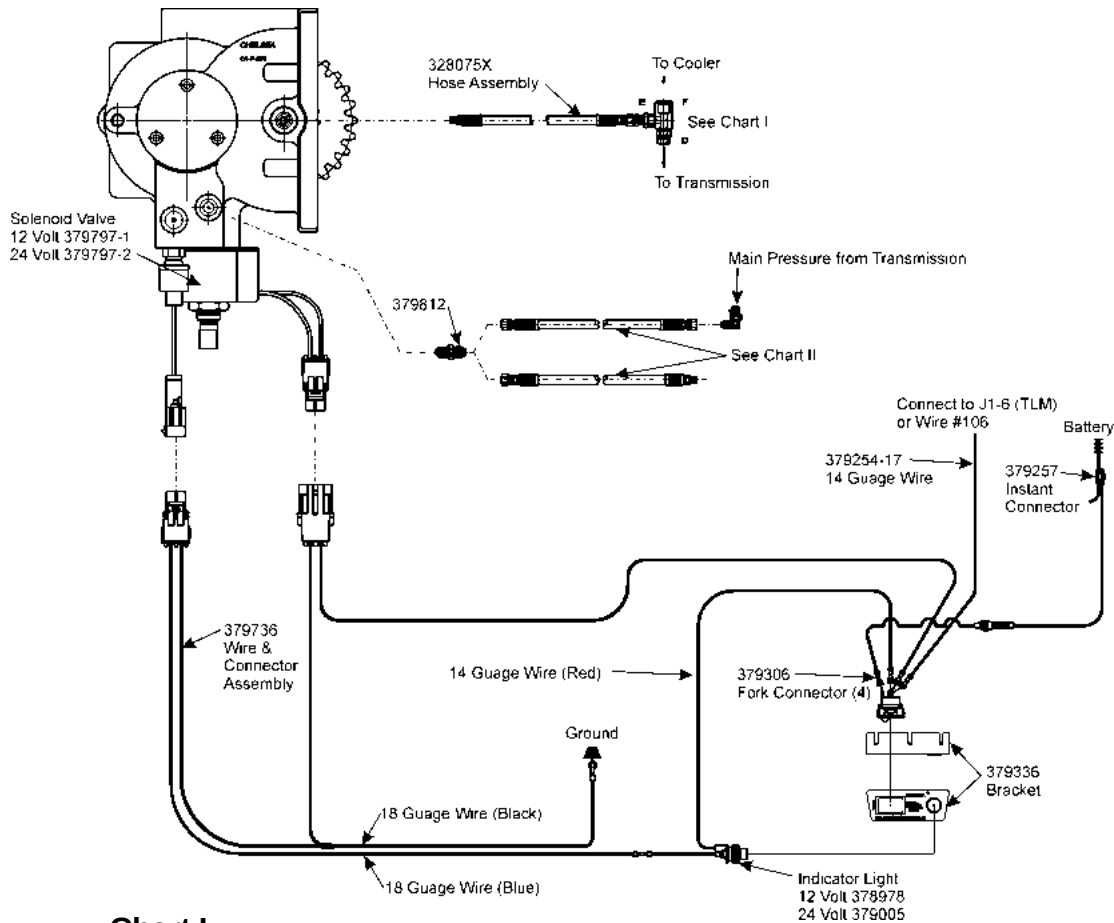


Chart I

Dimensional Information						
TEE FITTING	<u>378840</u>	<u>378970</u>				
D	.750-16 U.N.F. 2A	1.062-12 U.N.F. 2A				
E	.250-18 N.P.T.F.	.250-18 N.P.T.F.				
F	.750-16 N.P.T.F.	1.062-12 U.N.F. 2B				
Allison 1000, 2000/2400 Series Converter Housing Options						
Converter Housing Group Number	SAE Number	Description	1000	2000	2400	Chelsea Fitting
34-561	#3	Integral Cooler Ports	STD.	—	—	<u>378840</u>
34-562	#2	Manifold Pad	OPT.	STD.	STD.	<u>378970</u>
34-563	#3	Manifold Pad	OPT.	STD.	STD.	<u>378970</u>
34-565	#3	Integral Cooler Ports	STD.	—	—	<u>378840</u>
34-566	#2	Manifold Pad	OPT.	STD.	STD.	<u>378970</u>
34-567	#2	Manifold Pad	OPT.	STD.	STD.	<u>378970</u>
34-572	#3	Integral Cooler Ports	STD.	—	—	<u>378840</u>
34-573	#3	Integral Cooler Ports	STD.	—	—	<u>378840</u>

Chart II

TRANSMISSION	HIGH PRESSURE HOSE	FITTING
Allison 1000, 2000/2400	329141-1X	379486

Installation Kits**250/251 Series**

Item	Part Number	Description	Quantity
	329296-2X	12 Volt Installation Kit, "B" Shifter Type Only	
	► 378881	Rocker Switch	1
	► 378884	Fuse Holder	1
	► 378978	Indicator Light 12V	1
	► 379257	Connector	1
	► 379306	Connector	3
	► 379336	Name Plate & Bracket	1
	► 379736	Wire & Connector Assembly	1
	► 379254-17	14-Gage Wire w/Fork Connector	1
	329296-3X	24 Volt Installation Kit, "D" Shifter Type Only	
	► 378881	Rocker Switch	1
	► 378884	Fuse Holder	1
	► 379005	Indicator Light 24V	1
	► 379257	Connector	1
	► 379306	Connector	3
	► 379336	Name Plate & Bracket	1
	► 379736	Wire & Connector Assembly	1
	► 379254-17	14-Gage Wire w/Fork Connector	1

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2. Payment: Payment shall be made by Buyer net 30 days from the date of delivery of the items purchased hereunder. Amounts not timely paid shall bear interest at the maximum rate permitted by law for each month or portion thereof that the Buyer is late in making payment. Any claims by Buyer for omissions or shortages in a shipment shall be waived unless Seller receives notice thereof within 30 days after Buyer's receipt of the shipment.

3. Delivery: Unless otherwise provided on the face hereof, delivery shall be made F.O.B. Seller's plant. Regardless of the method of delivery, however, risk of loss shall pass to Buyer upon Seller's delivery to a carrier. Any delivery dates shown are approximate only and Seller shall have no liability for any delays in delivery.

4. Warranty: Seller warrants that the items sold hereunder shall be free from defects in material or workmanship for a period of:

(A) All Power Take-Off units one (1) year from date of installation.

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9/01-P

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