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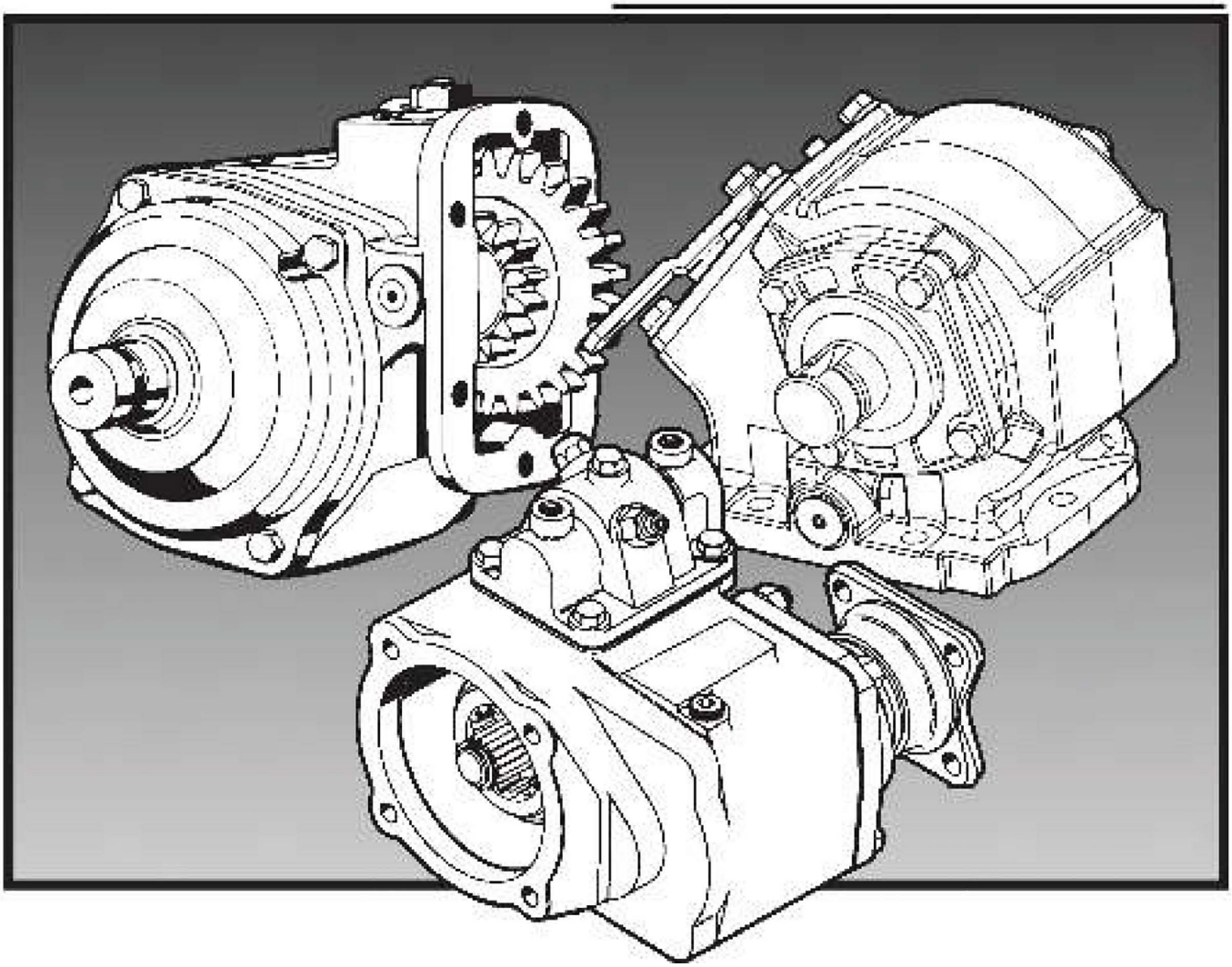
(877) 776-4600 or (407) 872-1901 parts@eprogear.com

CHELSEA®
Replacement Parts List 252 Series Manual

Bulletin HY25-2252-M[illegible]/US

Effective: February 15, 2009



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⚠ WARNING

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Parker Hannifin Corporation
Chelsea Products Division
Olive Branch, MS 38654 USA

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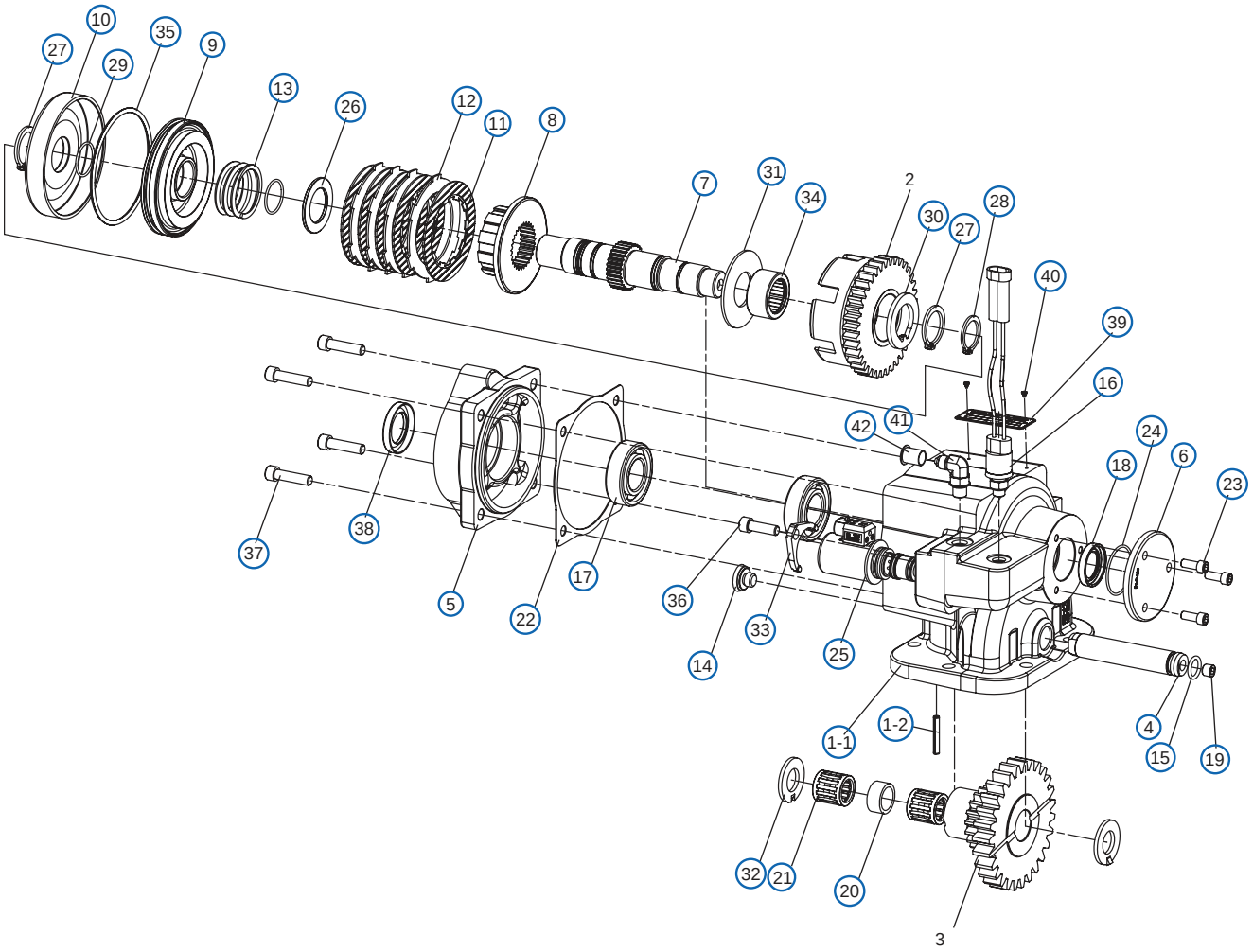

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Item	Part Number	Description	Quantity
1 ▶	1-P-636X	Housing Assembly	1
1-1 ▶	1-P-636	Housing	1
1-2 ▶	500597-16	Pin Roll (.188" x 1.250")	1
2	See Chart	Gear Output	1
3	See Chart	Gear Input	1
4 ▶	9-P-90	Shaft Idler (.75")	1
5 ▶	21-P-635	Flange Pump	1
6 ▶	34-P-129	Cap End	1
7 ▶	3-P-1006	Shaft Output 3/4"- 11T (“AD” & P** Pump Options)	1
▶	3-P-931	Shaft Output 5/8"- 9T (“XE” & 1*** Pump Options)	1
▶	3-P-934	Shaft Output 1.00" Keyed (“XB” Output Only)	1
8	2-P-776	Gear Clutch	1
9 ▶	380067	Piston Clutch	1
10 ▶	380068	Cylinder Clutch	1
11 ▶	379691	Friction Disc	5
12 ▶	379692	Separator Plate	4
13 ▶	37-P-56	Spring (1.75" x 1.51")	1
14 ▶	379672	Plug O-Ring NWD Socket Face	1
15 ▶	28-P-191	O-Ring (.549" x .103")	1
16 ▶	379502	Switch Pressure	1
17 ▶	561005	Bearing Ball (.9992" x 2.0472" x .5900")	2
18 ▶	28-P-119	Oil Seal (1.379" x .875" x .249")	1
19 ▶	379231	Pipe Plug Hex Socket	1
20 ▶	14-P-70	Spacer (.765" x .990" x .465")	1
21 ▶	550890	Bearing Needle Roller Ass’y (.750" x 1.000" x 1.000")	2
22 ▶	22-P-109	Gasket 250	1
23 ▶	379431-3	Capscrew Sockhead (.250"- 20 x .625")	3
24 ▶	28-P-263	O-Ring (1.489" x .070")	1
25	380011-12	Cartridge Valve Non Regulating - 12V	1
26 ▶	31-P-108	Washer Thrust (1.132" x 1.792" x .092")	1
27 ▶	379694	Lockring	2
28 ▶	379693	Lockring	1
29 ▶	28-P-266	O-Ring (.989" x .070")	2
30 ▶	31-P-104	Washer Thrust (1.130" x 1.792" x .152")	1
31 ▶	31-P-98	Washer Thrust (1.130" x 2.500" x .092")	1
32 ▶	31-P-97	Washer Thrust (.754" x 1.440" x .123")	2
33	380012	Bracket	1
34 ▶	560998	Bearing Needle Roller Ass’y (1.125" x 1.500" x .750")	1
35 ▶	28-P-287	O-Ring	1
36 ▶	378447-6	Capscrew Socket Head (.312" - 18 x 1.000")	1
37 ▶	378447-7	Capscrew Socket Head (.312" - 18 x 1.250")	4
38 ▶	28-P-264	Oil Seal (1.628" x 1.000" x .250")	1
39 ▶	68-P-2	Name Plate	1
40 ▶	378422	Screw Drive	2
41 ▶	379486	Elbow 90° (.438" - 20)	1
42 ▶	379564-2	Shipping Cap	1
43 ▶	500007-24	Woodruff Key (“XB” Output Only)	1
▶	328948-35X	Kit Installation Instructions	1
	7170-102X	Kit P.T.O. Mounting (“G” Mounting Only)	1
	7170-121X	Kit P.T.O. Mounting Dodge Aisin (“D” Mounting Only)	1
▶	329296-8X	Kit Installation 12V Allison (“G” Mounting Only)	1
	329296-9X	Kit Installation 12V Dodge Aisin (“D” Mounting Only)	1
▶	329229-4X	Kit Pump Mounting (Not For “XB” Output)	1
▶	328075X	Assembly Hose (“P” Lube Only)	1
▶	329141-1X	Assembly Hose	1

A.R.—As Required

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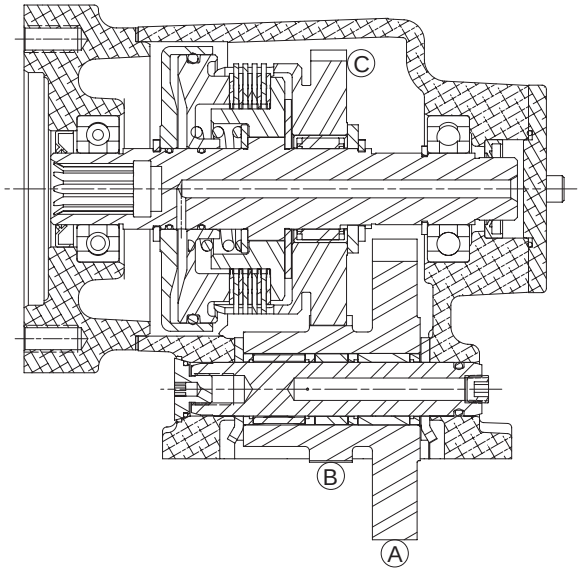

Gear Chart

Gear Designator	Part No. (3)	No. Teeth A	Helix	No. Teeth B	Comments	Part No. (2)	No. Teeth C
252*DHV	5-P-1294	27	SPUR	19	ALLISON 1000, 2000, 2400	2-P-782	37
252*MHV	5-P-1386	27	SPUR	24	ALLISON 1000, 2000, 2400	2-P-775	32
252*DKU	5-P-1427	36	SPUR	19	AISIN	2-P-782	37
252*MKU	5-P-1437	36	SPUR	24	AISIN	2-P-775	32

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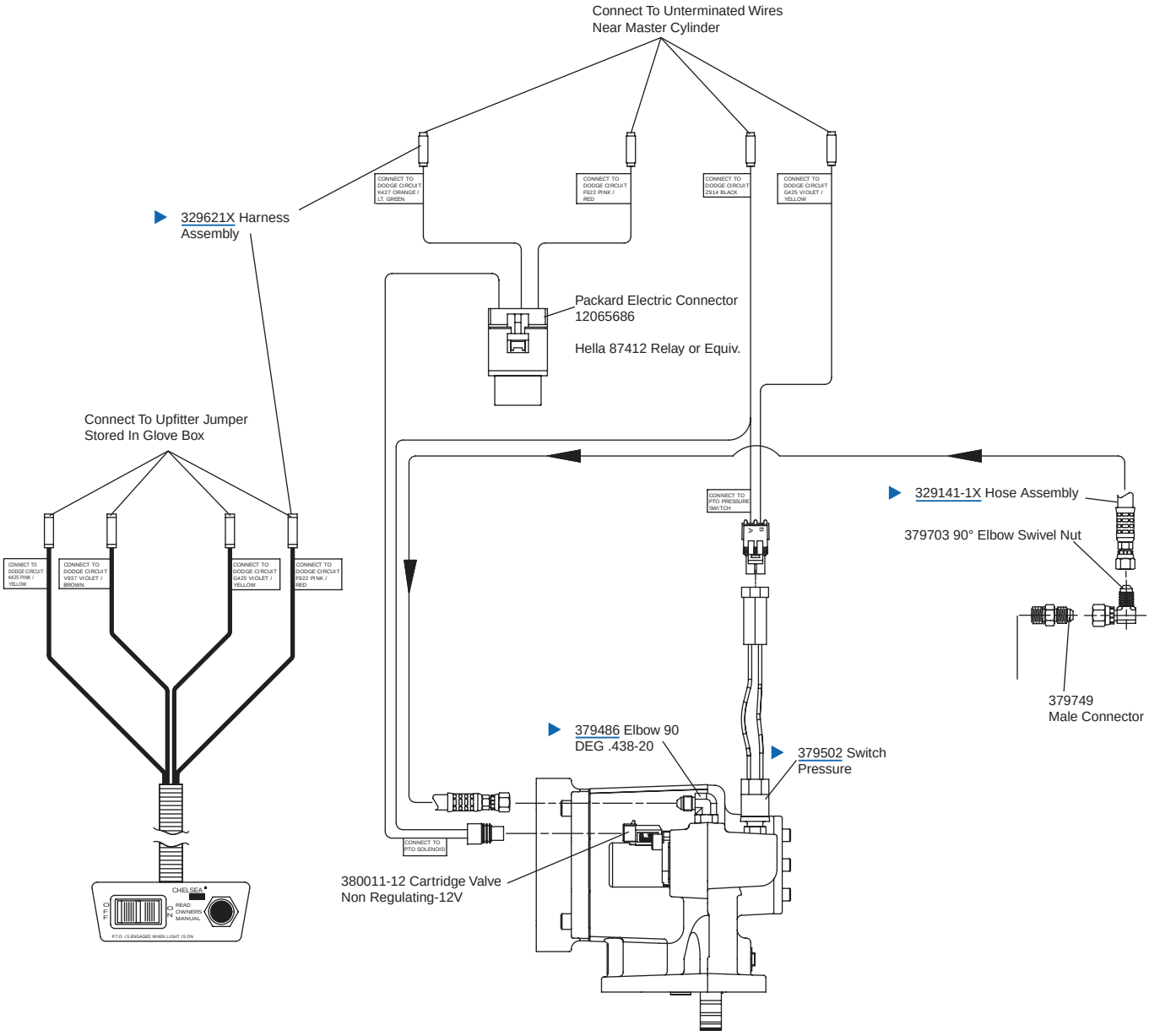
Installation Sketch Dodge w/Aisin Automatic (SK-455 Rev A)



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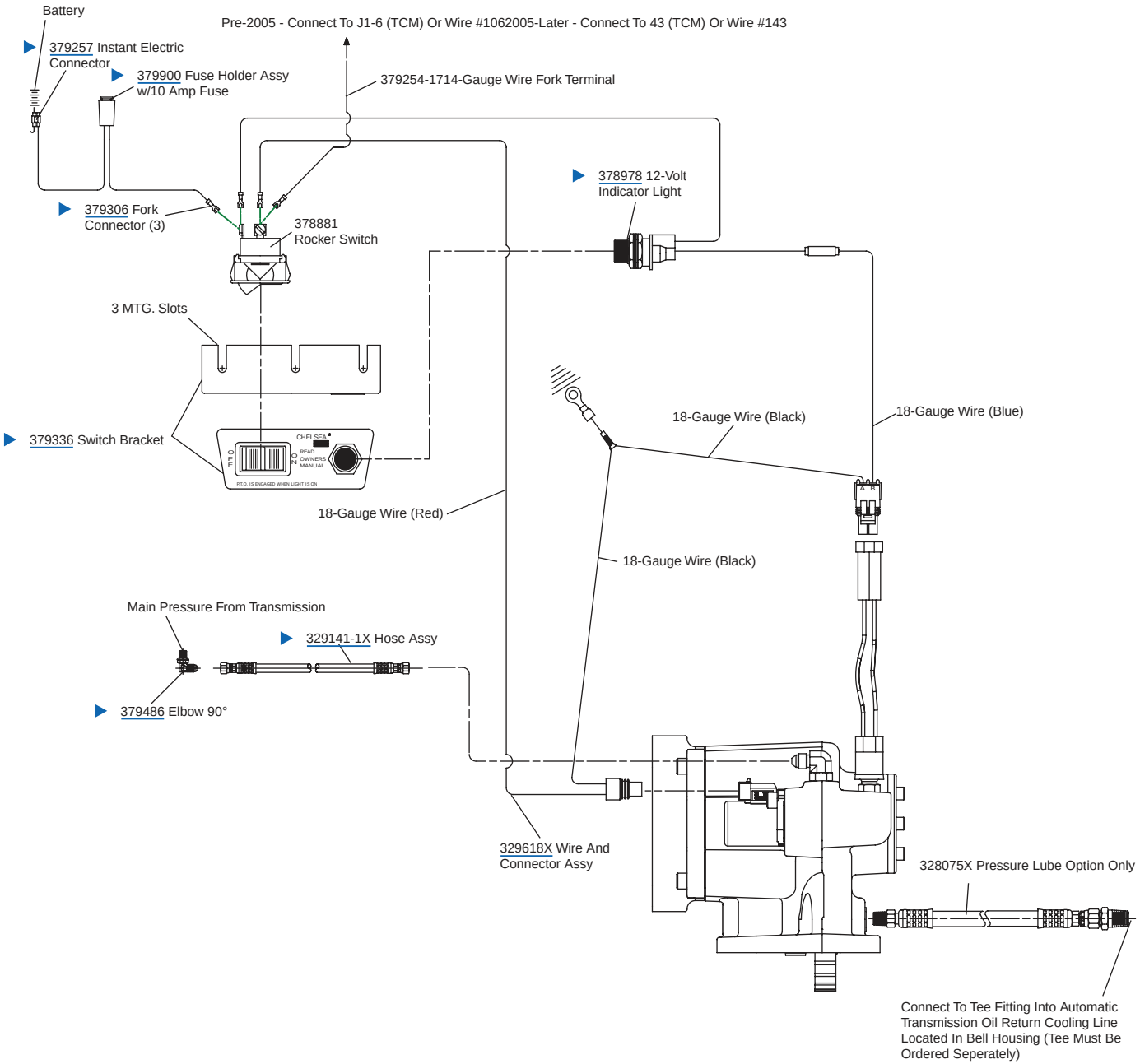
Installation Sketch 12V without Speed Limiter 252 for Allison 1,000, 2000, 2400 (SK-456 Rev A)

▶ 329296-8X (12V Installation Kit)



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252 G D HV X – B 5 AD

BASIC MODEL
252

MOUNTING TYPE
D = Dodge/Aisin Installation
G = Metric Mount

GEAR RATIO
D = 19/37 = .51
M = 24/32 = .75

INPUT GEAR DESIGNATOR
HV = Spur Allison 1000, 2000, 2400
KU = Spur Dodge w/Aisin Automatic

LUBRICATION
X = No Pressure Lube
P = Pressure Lube

OUTPUT TYPE
Only Output w/o Pump
XE = 2 Bolt "A" 5/8-9T Spline
XB = 1.00" Keyed Shaft
AD = 2 Bolt "A" 3/4-11T Spline

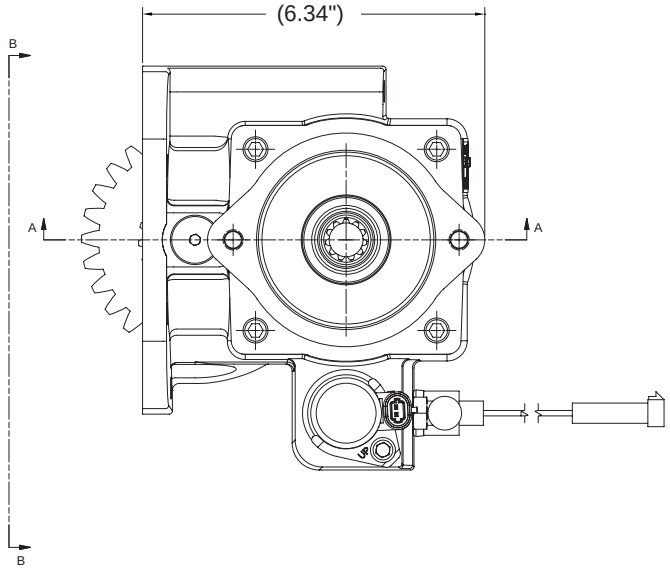
Output w/ Pump & XE Shaft
1116 = CGP-P11C016-1AC
1121 = CGP-P11C021-1AC
1126 = CGP-P11C026-1AC
1129 = CGP-P11C029-1AC
1137 = CGP-P11C037-1AC
1449 = CGP-P31C054-1AE
1462 = CGP-P31C061-1AE

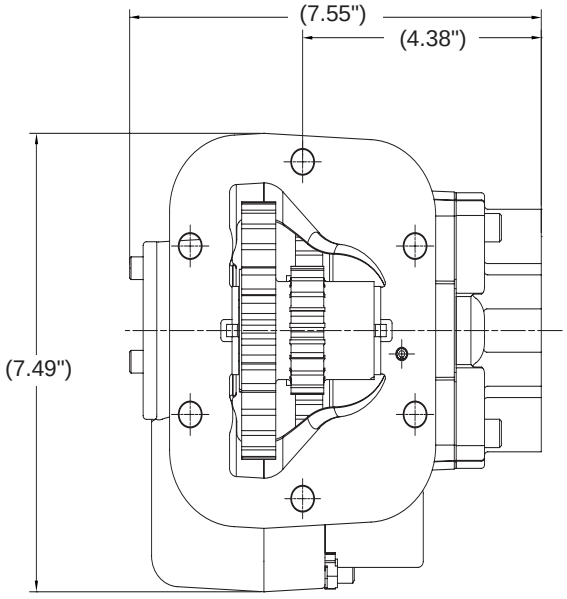
Output w/ Pump & AD Shaft
P37 = CGP-P11C037-5AC
P42 = CGP-P11C042-5AC
P71 = CGP-P11C071-5AC
P82 = CGP-P11C082-5AC

ASSEMBLY ARRANGEMENT
5 Only

SHIFTER TYPE
B = Hydraulic Shift 12V

Housing Dimensions





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Notes

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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 18 months from date of sale.
(B) Except 267, 269, 277, 278, 246, 247, 250, and 859 series two (2) years from date of installation. **THIS WARRANTY COMPRISES THE SOLE AND ENTIRE WARRANTY PERTAINING TO ITEMS PROVIDED HEREUNDER. SELLER MAKES NO OTHER WARRANTY, GUARANTEE, OR REPRESENTATION OF ANY KIND WHATSOEVER. ALL OTHER WARRANTIES, INCLUDING BUT NOT LIMITED TO, MERCHANTABILITY AND FITNESS FOR PURPOSE, WHETHER EXPRESS, IMPLIED, OR ARISING BY OPERATION OF LAW, TRADE USAGE, OR COURSE OF DEALING ARE HEREBY DISCLAIMED. NOTWITHSTANDING THE FOREGOING, THERE ARE NO WARRANTIES WHATSOEVER ON ITEMS BUILT OR ACQUIRED WHOLLY OR PARTIALLY, TO BUYER'S DESIGNS OR SPECIFICATIONS.**

5. Limitation Of Remedy: SELLER'S LIABILITY ARISING FROM OR IN ANY WAY CONNECTED WITH THE ITEMS SOLD OR THIS CONTRACT SHALL BE LIMITED EXCLUSIVELY TO REPAIR OR REPLACEMENT OF THE ITEMS SOLD OR REFUND OF THE PURCHASE PRICE PAID BY BUYER, AT SELLER'S SOLE OPTION. IN NO EVENT SHALL SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY KIND OR NATURE WHATSOEVER, INCLUDING BUT NOT LIMITED TO LOST PROFITS ARISING FROM OR IN ANY WAY CONNECTED WITH THIS AGREEMENT OR ITEMS SOLD HEREUNDER, WHETHER ALLEGED TO ARISE FROM BREACH OF CONTRACT, EXPRESS OR IMPLIED WARRANTY, OR IN TORT, INCLUDING WITHOUT LIMITATION, NEGLIGENCE, FAILURE TO WARN OR STRICT LIABILITY.

6. Changes, Reschedules and Cancellations: Buyer may request to modify the designs or specifications for the items sold hereunder as well as the quantities and delivery dates thereof, or may request to cancel all or part of this order, however, no such requested modification or cancellation shall become part of the contract between Buyer and Seller unless accepted by Seller in a written amendment to this Agreement. Acceptance of any such requested modification or cancellation shall be at Seller's discretion, and shall be upon such terms and conditions as Seller may require.

7. Special Tooling: A tooling charge may be imposed for any special tooling, including without limitation, dies, fixtures, molds and patterns, acquired to manufacture items sold pursuant to this contract. Such special tooling shall be and remain Seller's property notwithstanding payment of any charges by Buyer. In no event will Buyer acquire any interest in apparatus belonging to Seller which is utilized in the manufacture of the items sold hereunder, even if such apparatus has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller shall have the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.

8. Buyer's Property: Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which become Buyer's property, may be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer placing an order for the items which are manufactured using such property, Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control.

9. Taxes: Unless otherwise indicated on the face hereof, all prices and charges are exclusive of excise, sales, use, property, occupational or like taxes which may be imposed by any taxing authority upon the manufacture, sale or delivery of the items sold hereunder. If any such taxes must be paid by Seller or if Seller is liable for the collection of such tax, the amount thereof shall be in addition to the amounts for the items sold. Buyer agrees to pay all such taxes or to reimburse Seller therefore upon receipt of its invoice. If Buyer claims exemption from any sales, use or other tax imposed by any taxing authority, Buyer shall save Seller harmless from and against any such tax, together with any interest or penalties thereon which may be assessed if the items are held to be taxable.

10. Indemnity For Infringement of Intellectual Property Rights: Seller shall have no liability for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights except as provided in this Part 10. Seller will defend and indemnify Buyer against allegations of infringement of U.S. Patents, U.S. Trademarks, copyrights, trade dress and trade secrets (hereinafter 'Intellectual Property Rights'). 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 an allegation that an item sold pursuant to this contract infringes the Intellectual Property Rights of a third party. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of such allegations of infringement, and Seller having sole control over the defense of any allegations or actions including all negotiations for settlement or compromise. If an item sold hereunder is subject to a claim that it infringes the Intellectual Property Rights of a third party, Seller may, at its sole expense and option, procure for Buyer the right to continue using said item, replace or modify said item so as to make it noninfringing, or offer to accept return of said item and return the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, Seller shall have no liability for claims of infringement based on information provided by Buyer, or directed to items delivered hereunder for which the designs are specified in whole or part by Buyer, or infringements resulting from the modification, combination or use in a system of any item sold hereunder. The foregoing provisions of this Part 10 shall constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights.
If a claim is based on information provided by Buyer or if the design for an item delivered hereunder is specified in whole or in part by Buyer, Buyer shall defend and indemnify Seller for all costs, expenses or judgments resulting from any claim that such item infringes any patent, trademark, copyright, trade dress, trade secret or any similar right.

11. Force Majeure: Seller does not assume the risk of and shall not be liable for delay or failure to perform any of Seller's obligations by reason of circumstances beyond the reasonable control of Seller (hereinafter 'Events of Force Majeure'). Events of Force Majeure shall include without limitation, accidents, acts of God, strikes or labor disputes, acts, laws, rules or regulations of any government or government agency, fires, floods, delays or failures in delivery of carriers or suppliers, shortages of materials and any other cause beyond Seller's control.

12. Entire Agreement/Governing Law: The terms and conditions set forth herein, together with any amendments, modifications and any different terms or conditions expressly accepted by Seller in writing, shall constitute the entire Agreement concerning the items sold, and there are no oral or other representations or agreements which pertain there/to. This Agreement shall be governed in all respects by the law of the State of Ohio. No actions arising out of the sale of the items sold hereunder or this Agreement may be brought by either party more than two (2) years after the cause of action accrues.

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