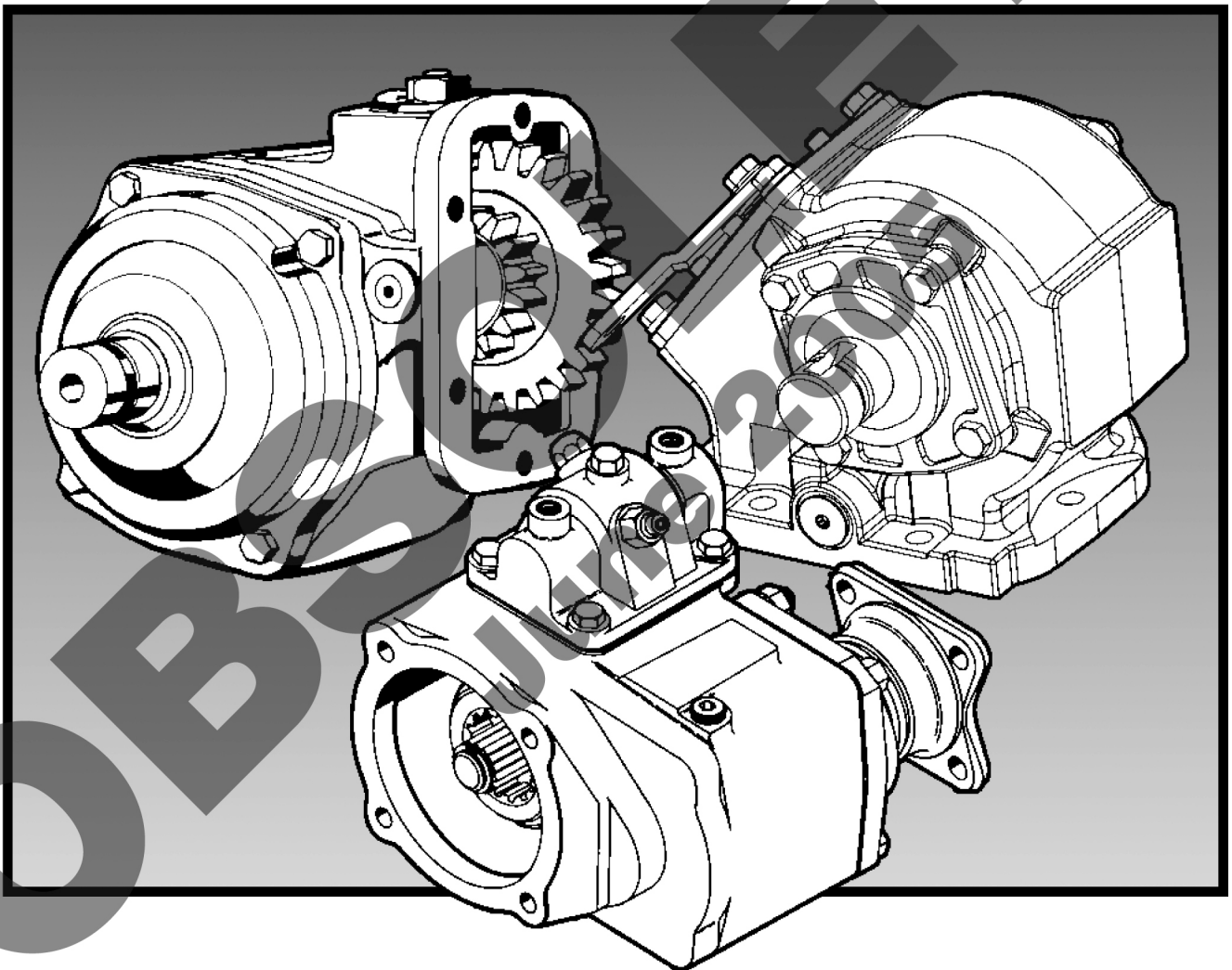


CHELSEA[®]

Bulletin HY25-2540-M1/US

Parts List 540 Series

Effective: November 15, 2001
Supersedes: P410-540 Dated August, 1979





WARNING

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

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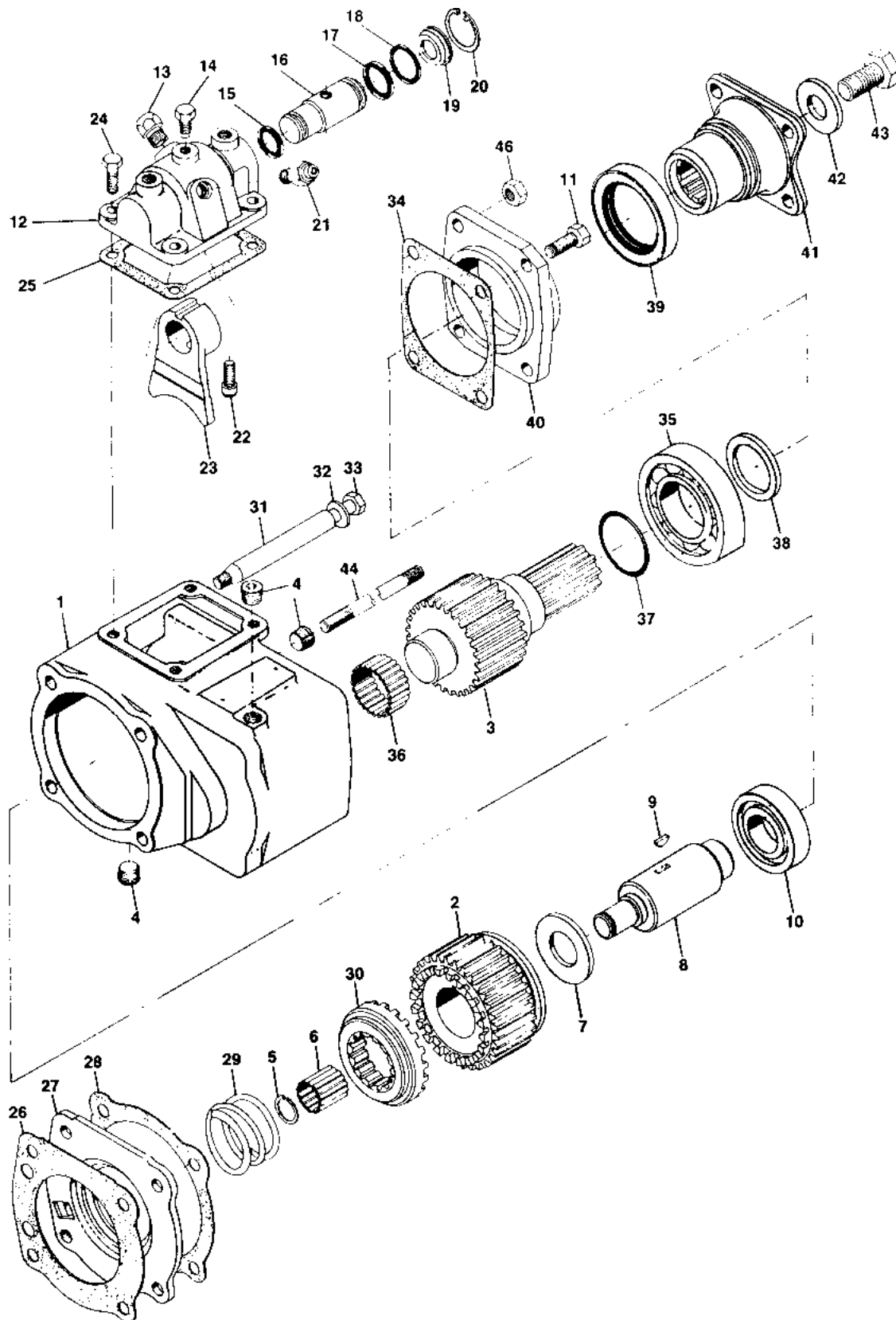
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Bill of Materials

Power Take-Off

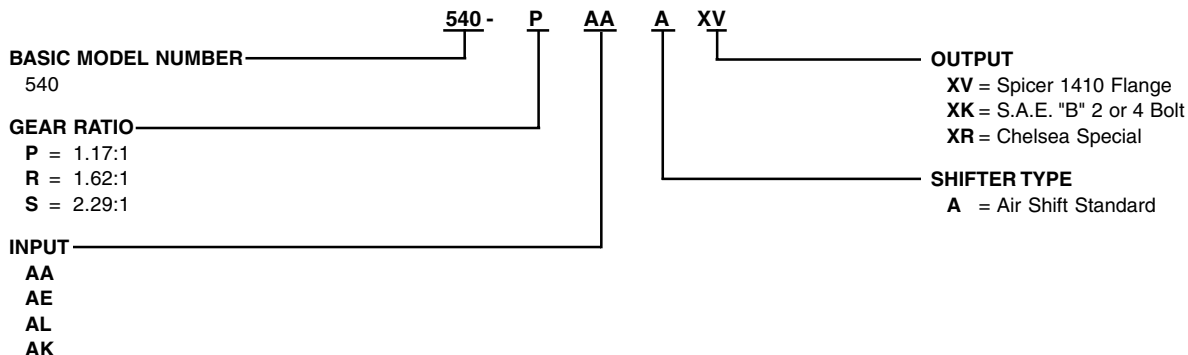
540 Series

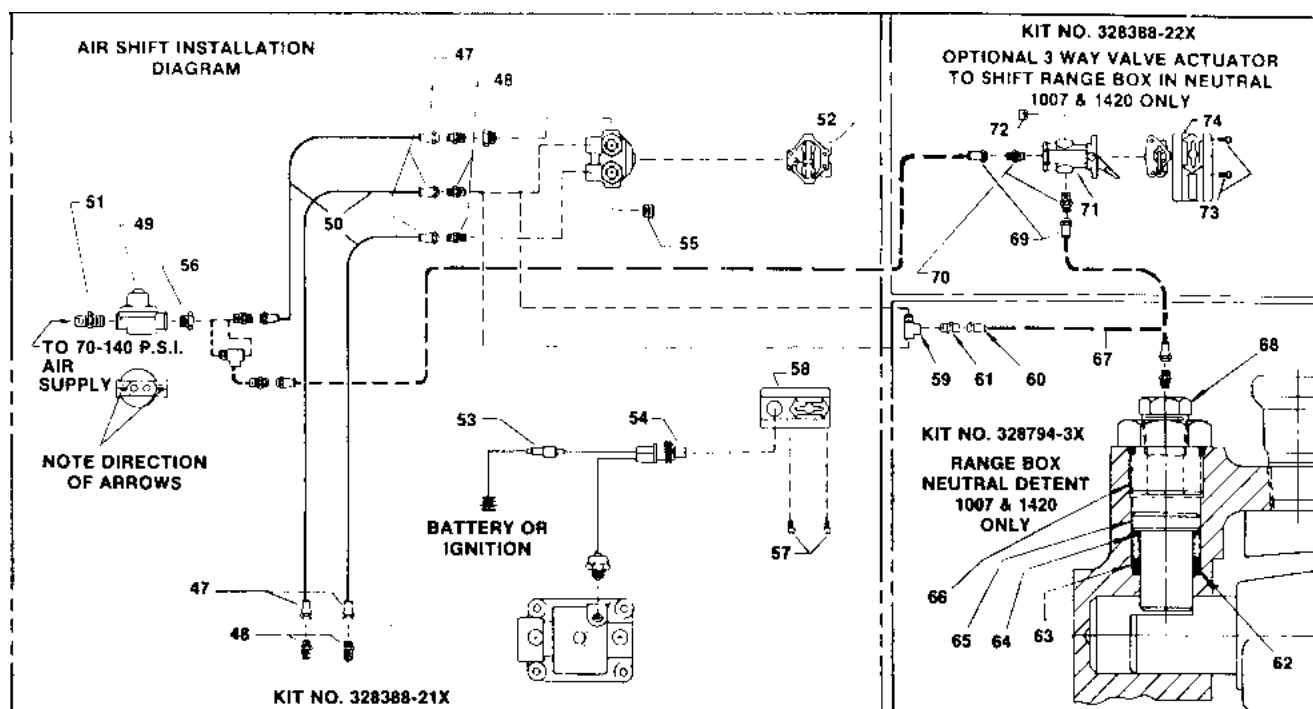
Item	Part Number	Description	Quantity
1	1-P-369	Housing, P.T.O. 1	1
	1-P-371	For 540-P or 540-R Ratios	
2	See Chart Pg. 5	For 540-S Ratio	
3	See Chart Pg. 5	Input Gear 1	1
4	378888	Output Gear & Shaft 1	1
5	379071	Pipe Plug (.250"-18) 3	3
6	550890	Retainer Ring 1	1
7	31-P-76	Roller Bearing Assembly 1	1
8	3-P-751	Thrust Washer 1	1
9	378210	Input Bearing Shaft 1	1
10	550697	Pro Key 1	1
11	378431-10	Ball Bearing 1	1
		Screw, Hex Head (.375"-16 x 1.00") 2	2
	328793X	AIR SHIFT ASSEMBLY (Includes items 12 thru 23) 1	1
12	34-P-72	Shifter Cover 1	1
13	378554	Cap 1	1
14	378285-1	Guide Screw (.312"-24) 1	1
15	28-P-71	O-ring 1	1
16	11-P-120	Shift Shaft 1	1
17	28-P-41	O-ring 1	1
18	28-P-42	O-ring 1	1
19	378315	Cover Plug 1	1
20	378316	Retainer Ring 1	1
N.S.	5008997-3	Shipping Plug 2	2
21	378969	Indicator Switch 1	1
22	378447-4	Screw, Socket Head (.312"-18 x .750") 1	1
23	32-P-137	Shift FORK 1	1
24	378430-8	Screw, Hex Head (.312"-18 X .750") 4	4
25	35-P-40	Gasket, Shift Cover 1	1
		MOUNTING KITS	
	328794-4X	MOUNTING KITS for Spicer 1007 & 1420 Transmission 1	1
		(Includes items 26 thru 33)	
	328794-5X	MOUNTING KITS for Spicer 1107 Transmission 1	1
		(Includes items 26 thru 33)	
26	22-P-61	Gasket, Adaptor Cover 1	1
27		Adaptor Cover 1	1
	21-P-351	For 540-*AB, Spicer 1007 & 1420 Transmissions	
	21-P-352	For 540-*AC, Spicer 1107 Transmissions	
28	22-P-62	Gasket, P.T.O. Mounting 1	1
29		Spring 1	1
	37-P-45	For 540-*AB, Spicer 1007 & 1420 Transmissions	
	37-P-46	For 540-*AC, Spicer 1107 Transmissions	
30	57-P-17	Clutch 1	1
31	379077	Cone Lock Sleeve 2	2
32	500365-26	Flat Washer 2	2
33	379433-14	Screw, Hex Hd. (.375"-16 x 3.00") 2	2

N.S. — Not Shown

Bill of Materials**Power Take-Off****540 Series**

Item	Part Number	Description	Quantity
34	22-P-63 22-P-64	GASKET, Pump Flange & Bearing Cap For 540-P or 540-R For 540-S	1
35	550311 550010	BALL BEARING For 540-P or 540-R For 540-S	1
36	560959 560961	NEEDLE BEARING ASSEMBLY For 540-P or 540-R For 540-S	1
37	28-P-156	O-RING, For Standard Output Only on a 540-S	
38	4-P-76 378477 378748	RETAINER RING For Standard Output Only on a 540-P or 540-R For Pump Output Only on a 540-P or 540-R For Pump Output Only on a 540-S	1
39	28-P-35 28-P-77 28-P-52	OIL SEAL For 540-P or 540-R Standard Output For 540-S Standard Output For All Pump Outputs	1
40	21-P-354 21-P-356 21-P-360 21-P-364 21-P-358 21-P-362	PUMP FLANGES & BEARING CAPS Bearing Cap for 540-P or 540-R Standard Output Bearing Cap for 540-S Standard Output Pump Flange for 540-P or 540-R with 113 Pump Suffix Pump Flange for 540-S with 113 Pump Suffix Pump Flange for 540-P or 540-R with 225 Pump Suffix Pump Flange for 540-S with 225 Pump Suffix	1
41	3-1-3431 3-1-3881	1410 SERIES FLANGE For 540-P or 540-R For 540-S	1
42	4-P-130	Retainer Washer	1
43	378345-7	Screw, Hex Head (.625"-11 x 1.125")	1
44	328794-7X 379423-100	MOUNTING STUD KIT (Includes items 44 thru 46) Stud (.375"-16 x .375"-24 x 7.125")	1 2
46	379794	Flange Nut (.375"-24)	2

Model Number Designation



Item	Part Number	Description	Quantity
	328388-21X	AIR SHIFT INSTALLATION KIT (Includes items 47-58)	1
47	378356	Tube Nut	6
48	378360	Male Connector	6
49	378414	Pressure Protection Valve	1
50	378415-7	Nylon Tubing (35 Ft. Coil)	1
51	378416	Hex Nipple (1/4" NPT)	1
52	378504	Control Valve	1
53	378884	Fuse Holder	1
54	378978	Indicator Light (12 volt)	1
55	500133-3	Pipe Plug (1/4" NPT)	1
56	500714-1	Reducer (1/4" to 1/8" NPT)	2
57	500796-4	Screw	2
58	68-P-19	Control Plate	1

WARNING: The vehicle may start to move during this P.T.O. operation unless neutral is maintained in the range box and the brakes are set.

NOTE: The 1420-3A also must be shifted to its "on highway" mode for stationary operation. See transmission shifting instructions.

----- Follow these lines only when hooking up the 328790-3X Detnet Kit, for stationary applications only.

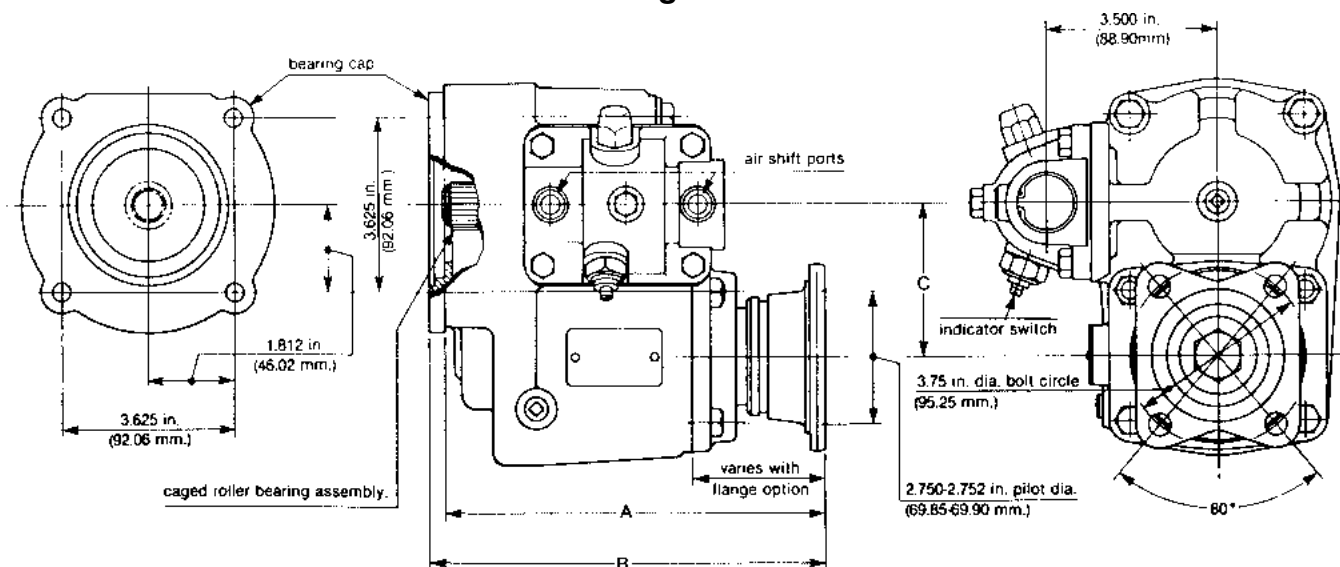
----- Follow these lines only when hooking up the 328790-3X Detent Kit, and the 328388-22X Air Shift Kit, for both mobile and stationary applications.

Item	Part Number	Description	Quantity
	▲ 328794-3X	NEUTRAL DETENT INSTALLATION KIT (Includes items 59 thru 68)	1
59	500750-1	Street Tee (1/8" NPT)	1
60	378356	Tube Nut	2
61	378360	Male Connector	2
62	28-P-154	O-Ring	1
63	379072	Washer	1
64	37-P-44	Spring	1
65	66-P-10	Piston	1
66	379073	Adaptor	1
67	378415-7	Nylon Tubing (35 Ft. Coil)	1
68	500714-1	Pipe Reducer (1/4" to 1/8" NPT)	1
	* 328388-22X	AIR SHIFT INSTALLATION KIT FOR NEUTRAL DETENT	
		(Includes items 69 thru 74)	1
69	328356	Tube Nut	2
70	379360	Male Connector	2
71	378463	Control Valve	1
72	500132-3	Pipe Plug (1/8" NPT)	1
73	500796-4	Screw	2
74	68-P-23	Control Plate	1

▲ The Spicer 1007 & 1420-3A Transmission has a "range box" mounted to the rear of the main box. This range box must be kept in neutral, for stationary operation of the countershaft P.T.O. Detent Kit 329794-3X must be purchased separately and installed in the range box for stationary operation of the countershaft P.T.O.

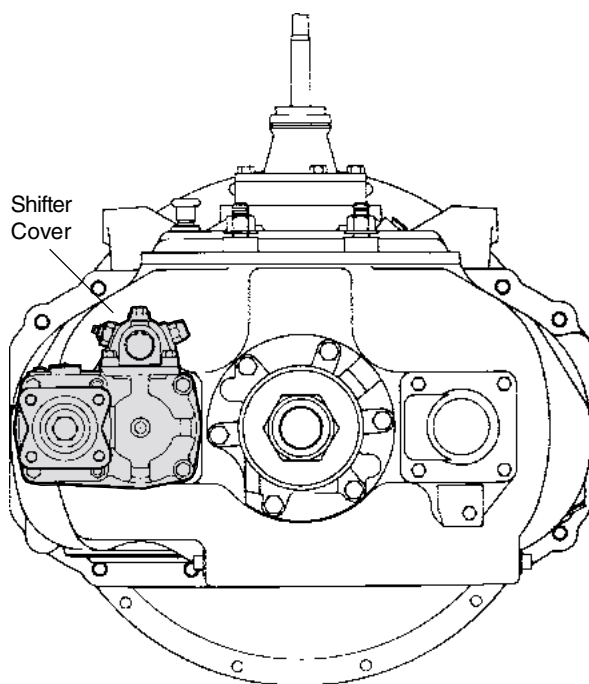
* This Air Shift Kit must be installed when the P.T.O. is to be used in both mobile and stationary applications.

540 Counter Shaft P.T.O. Dimensional Drawings

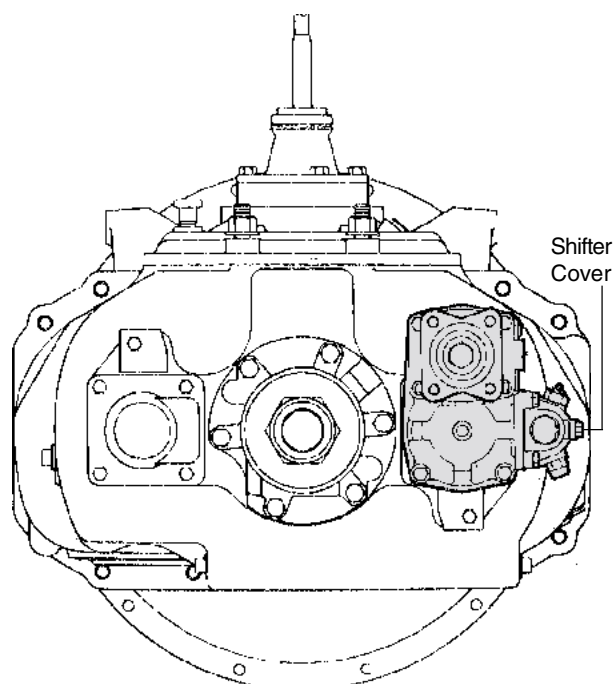


Gear Data

Model No.	Input Gear Item 2		Standard Output Shaft Spicer® 1410 Item 3		Pump Output Shaft XK and XR Item 3	
	Part Number	No. of Teeth	Part Number	No. of Teeth	Part Number	No. of Teeth
540-P	5-P-573	34	3-P-749	29	3-P-753	29
540-R	5-P-572	39	3-P-748	24	3-P-752	24
540-S	5-P-572	39	3-P-750	17	3-P-574	17



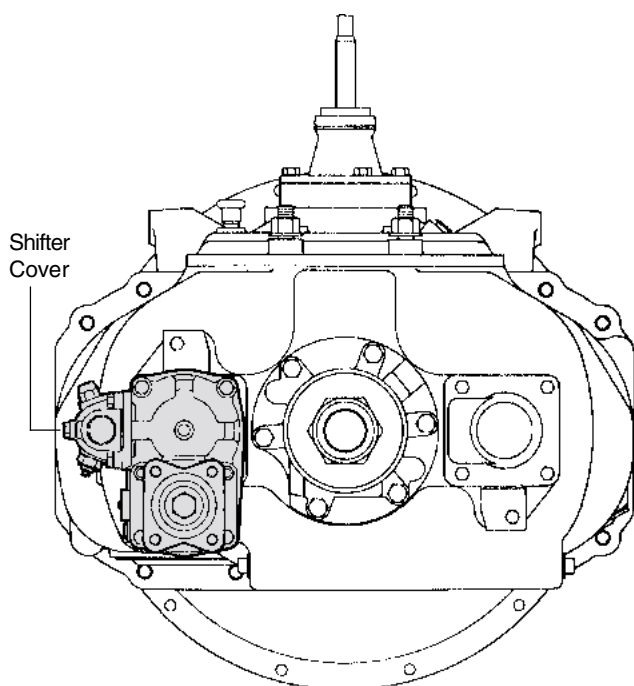
Standard position for left hand side of transmission, with shifter cover in top position.



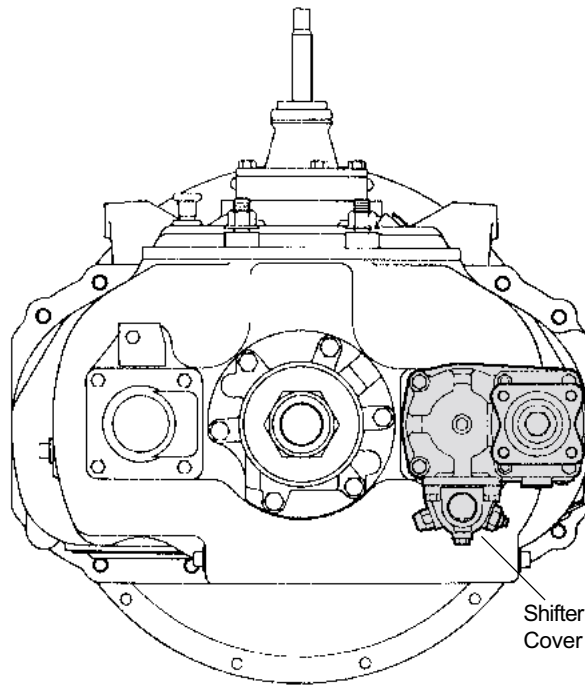
Standard position for right hand side of transmission, with shifter cover in side position.

Optional Mounting Positions

Use optional positions when interference prevents standard position mounting.



Optional position for left hand side of transmission, with shifter cover in side position.



Optional position for right hand side of transmission, with shifter cover in bottom position.

[illegible]

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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.

(B) Except 267, 277, 278, 242, 244, 246, 250, 251 and 859 series two (2) years from date of installation.

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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 thereto. 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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