

## Parts List 523 Series

Effective: January 15, 2015  
Supersedes: July 15, 2014

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### **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.

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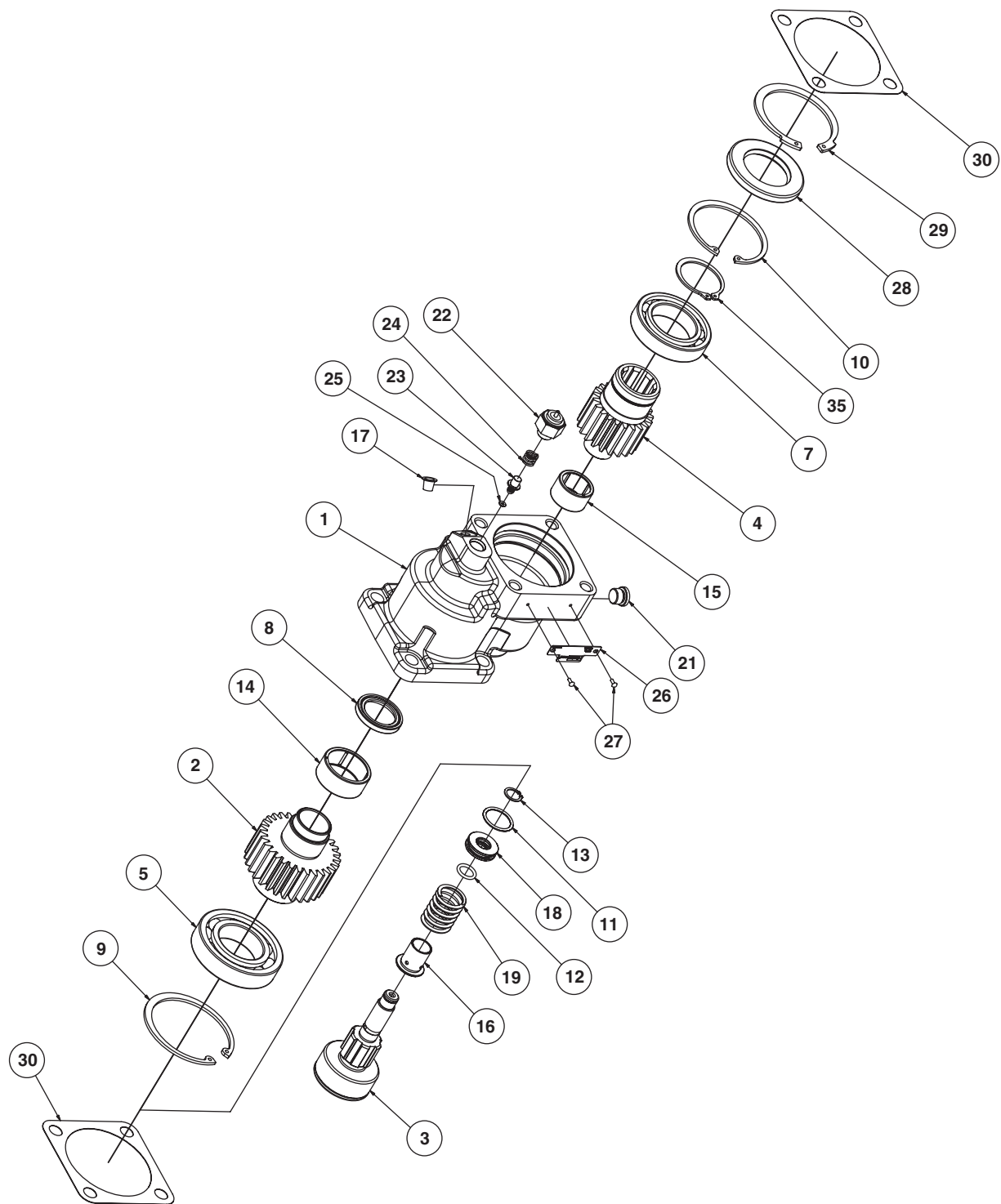
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## Bill of Materials

Parts List  
523 Series

Item	Part Number	Description	Qty.
1	1-P-663	Housing .....	1
2	5-P-1467	Input Gear ("T" Ratio) .....	1 or
	5-P-1472	Input Gear ("V" Ratio) .....	1
3	3-P-1064	Input Shaft ("AC", "AH", "AD", "AS") .....	1 or
	3-P-1073	Input Shaft ("AA", "AB", "AG", "AK", "AQ", "AS", "BD", "BJ", "LG", "LH") .....	1 or
	3-P-1078	Input Shaft ("AL") .....	1
4	2-P-890	Output Gear ("T" Ratio) .....	1 or
	2-P-899	Output Gear ("V" Ratio) .....	1
5	550038	Ball Bearing Input Shaft .....	1
7	561018	Ball Bearing, Output Shaft .....	1
8	28-P-323	Lip Seal .....	1
9	378263	Internal Lockring .....	1
10	379919	Internal Lockring .....	1
11	28-P-164	O-Ring (0.983" x 0.103") .....	1
12	28-P-191	O-Ring (0.594" x 0.103") .....	1
13	380372	External Lockring .....	1
14	561044	Needle Bearing, Input Shaft .....	1
15	561045	Needle Bearing, Output Shaft .....	1
16	380380	Sleeve Stopper .....	1
17	500897-5	Cap - Shipping .....	1
18	380374	Piston .....	1
19	37-P-70	Spring (1.141" x 2.73") .....	1
21	380017	Plug Connector .....	1
22	379652	Indicator Switch Normally "On" .....	1
23	380405	Indicator Plunger .....	1
24	37-P-71	Spring (0.500" x 0.466") .....	1
25	28-P-324	O-Ring (.114" x .070") .....	1
26	68-P-66	Name Plate .....	1
27	3911432004	Drive Screw .....	2
28	28-P-278	Oil Seal (2.953" x 1.772" x 0.315") ("X" Dry Spline Only) .....	1
29	378232	Lockring ("XY" Dry Spline Only) .....	1
35	380502	Internal Lockring .....	1
		<b>LOOSE PARTS</b>	
30	35-P-109	Gasket .....	2
	328388-98X	Installation Kit ("A" Shift Option) .....	1
	328388-47X	Installation Kit ("P" Shift Option) .....	1
	328388-82X	Installation Kit ("F" Shift Option) .....	1
	379075-1X	Hose .....	1
	4-6COSX-S	Elbow 90 Degrees .....	1

## Gear and Indicator Switch Charts

3 Input Shaft							
Part Number		Input Designator		Description		Qty.	
3-P-1064		AC, AD, AH,		45mm - 12 Tooth		1 or	
3-P-1073		AA, AB, AG, AK, AQ, AS, BD, BJ, LG, LH		40mm - 12 Tooth		1 or	
3-P-1078		AL		33mm - 26 Tooth		1 or	
3-P-1007		AR		40mm - 12 Tooth		1	
2 Input Gear				4 Output Gear			
Part Number		Input Designator	Description	Part Number		Input Designator	Description
5-P-1467		“T” Ratio	29 Teeth	2-P-890		“T” Ratio	21 Teeth
5-P-1472		“V” Ratio	23 Teeth	2-P-899		“R” Ratio	14 Teeth

**Designators****Parts List  
523 Series**

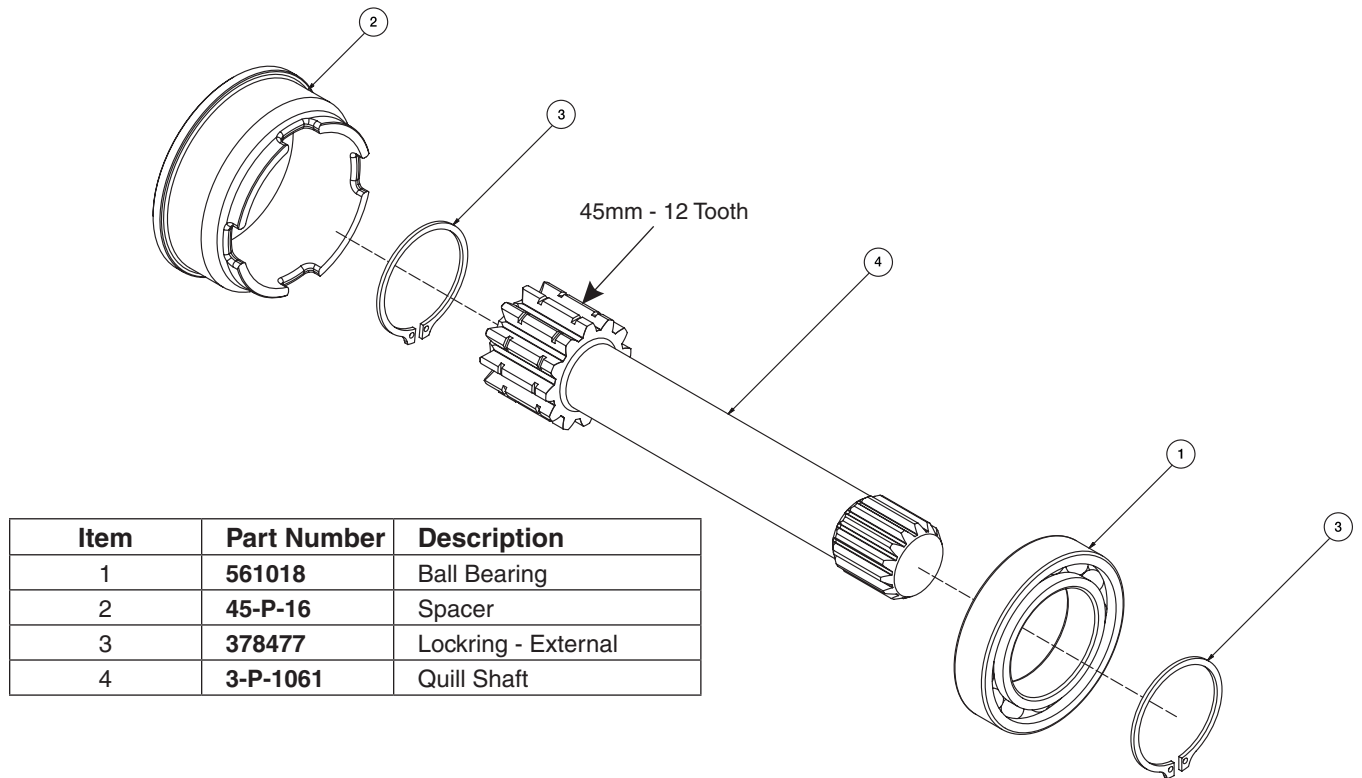
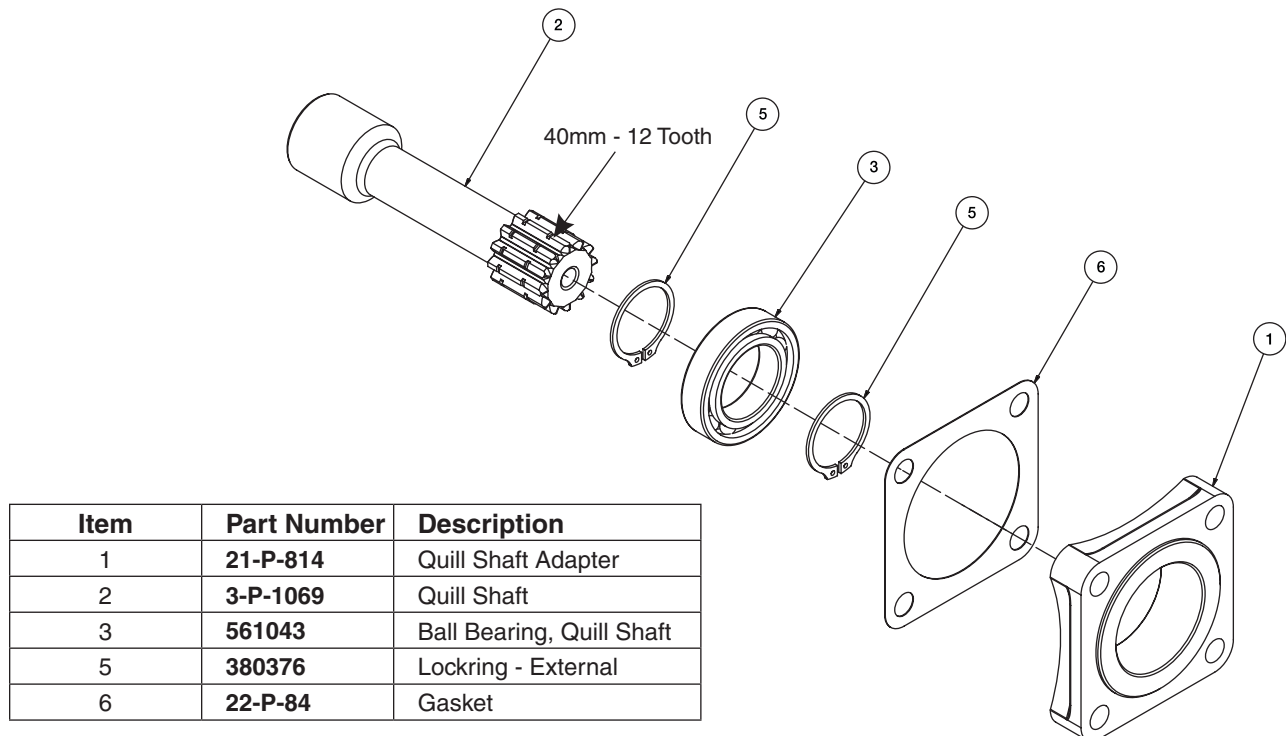
<b>Input Designator</b>	<b>Description</b>	<b>Kit Part Number</b>
AA	No Adapter Kit (ZF S6-36, 6S-850, 6S-700)	—
AB	Adapter Kit Assembly (IVECO 2845.6, 2855.5) (EATON FULLER FS-4106, FS-5206)	<b>329768X</b>
AC	Adapter Kit Assembly (ZF Astronic, Meritor, Freedomline)	<b>329755X</b>
AD	ZF 16S-151, 181, 221(w/o Intarder)	<b>329732X</b>
AE	Adapter Kit Assembly (Mercedes G60, G85)	<b>329761X</b>
AG	Adapter Kit Assembly (Volvo R & VT Series)	<b>329746X</b>
AH	No Adapter Kit (ZF S6-65/66/70/75/80/90, 6S-800, 6S-1000, 6S-1200)	—
AK	Adapter Kit Assembly (EATON FULLER FSO-10309)	<b>329745X</b>
AL	Adapter Kit Assembly (EATON FULLER FS-6206, 6306, 6406)	<b>329748X</b>
AM	Adapter Kit Assembly (EATON FULLER FS-4106, FS-5206)	<b>329768X</b>
AQ	Adapter Kit Assembly (ZF 9S-75, 9S-109, 16S-109, 9S-1110TD, 9S-1110TO, 9S-1310TO)	<b>329743X</b>
AR	Adapter Kit Assembly (EATON FULLER FS-6109, 6209A, 6309)	<b>329733X</b>
AS	Adapter Kit Assembly (Volvo I-Shift and Mack mDrive)	<b>329735X</b>
BD	Adapter Kit Assembly (EATON FULLER FO-16E309ALL-VMS)	<b>329767X</b>
BJ	Adapter Kit Assembly (EATON FULLER FTS-9, FTSO-9)	<b>329751X</b>
LG	Adapter Kit Assembly (EATON FULLER FTS-10, FTSO-10)	<b>329752X</b>
LH	Adapter Kit Assembly (EATON FULLER FTS-13, FTSO-13)	<b>329753X</b>

<b>Output Designator</b>	<b>Description</b>	<b>Kit Part Number</b>
XK	Output Adapter Assembly S.A.E. "B" 2 or 4-Bolt, 7/8" - 13T	<b>329801X</b>
XY	No Adapter Kit Required (DIN 5462)	—
XV	Output Adapter Assembly (1410 Flange)	<b>329750X</b>

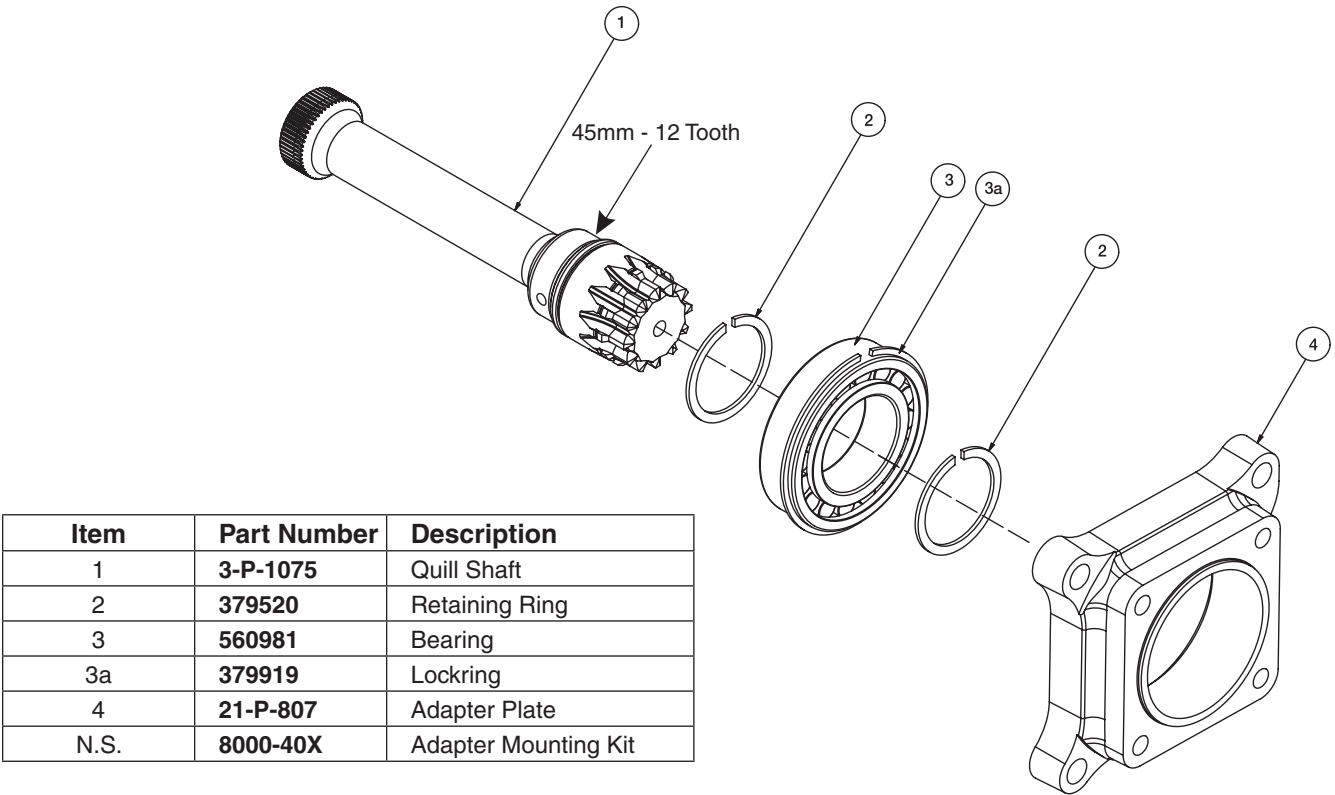
<b>Shifter Designator</b>	<b>Description</b>	<b>Kit Part Number</b>
A	Air Shift / Non Insulated Indicator Switch	<b>328388-101X</b>
H	No Shift Kit	—
P	12V Electric / Air Shift	<b>328388-104X</b>
Q	24V Electric / Air Shift	<b>328388-110X</b>
V	Volvo I-Shift and Mack mDrive Kit	<b>329809X</b>
F	12V Electric / Air Shift (ZF Astronic, Meritor, Freedomline)	<b>328388-82X</b>

**Mounting Kit Chart**

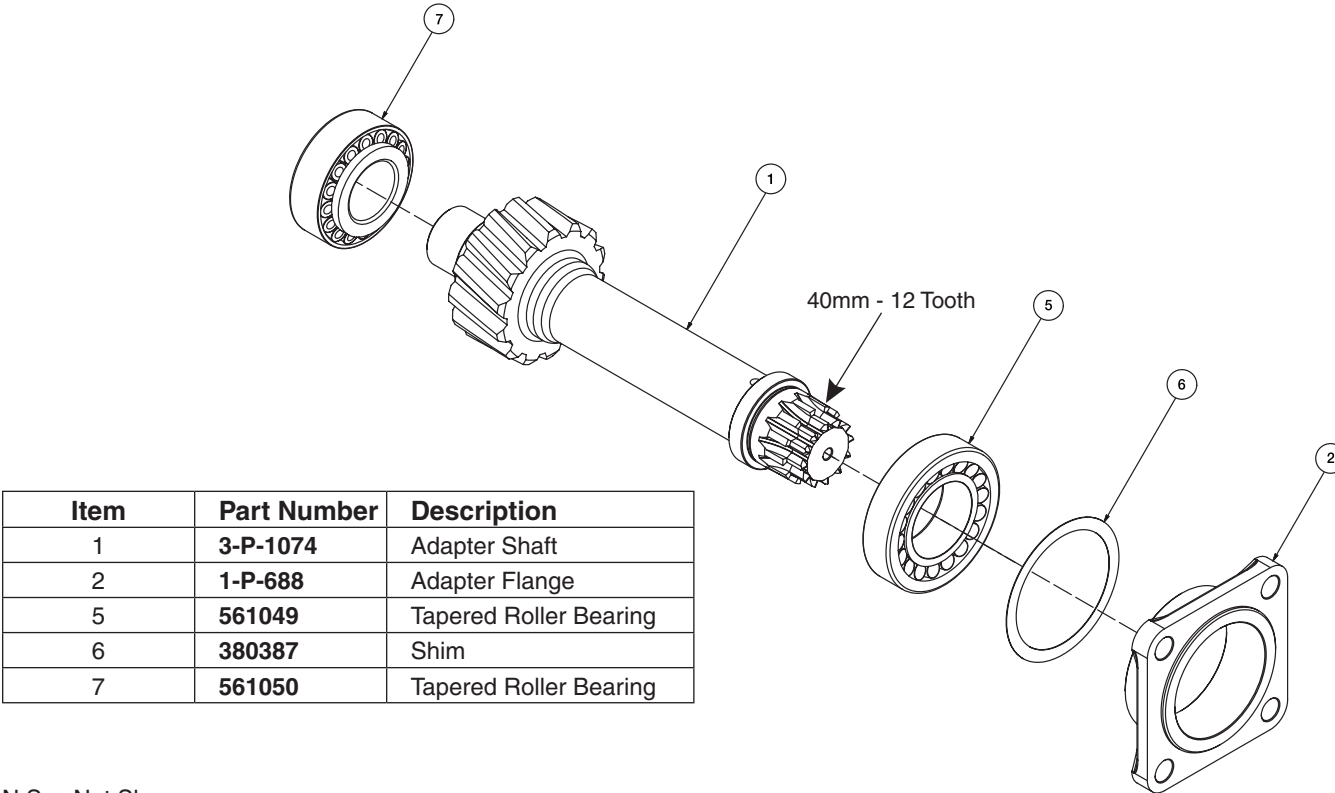
<b>Kit Designator</b>	<b>Kit Part Number</b>	<b>Adapter Mounting Kit</b>	<b>P.T.O. Mounting Kit</b>	<b>Kit Designator</b>	<b>Kit Part Number</b>	<b>Adapter Mounting Kit</b>	<b>P.T.O. Mounting Kit</b>
AA	<b>N/R (40MM)</b>	N/R	8000-22X	AL	329748X	8000-41X	8000-25X
AB	<b>329768X</b>	N/R	8000-24X	AQ	329743X	N/R	8000-23X
AC	<b>329755X</b>	N/R	8000-24X	AR	329733X	N/R	8000-24X
AD	<b>329732X</b>	N/R	8000-22X	AS	329735X	8000-40X	8000-26X
AE	<b>329761X</b>	8000-42X	8000-22X	BD	329767X	8000-39X	8000-26X
AG	<b>329746X</b>	8000-40X	8000-26X	BJ	329751X	8000-39X	8000-26X
AH	<b>N/R (45MM)</b>	N/R	8000-22X	LG	329752X	8000-39X	8000-26X
AK	<b>329745X</b>	N/R	8000-24X	LH	329753X	8000-39X	8000-26X

**329732X – Input Adapter Kit Assembly “AD” – ZF 16S-151, 181, 221 (w/o Intarder)****329733X – Input Adapter Kit Assembly “AR” – EATON FULLER FS-6109, 6209A, 6309**

**329735X – Input Adapter Kit Assembly “AS” – Volvo I-Shift and Mack mDrive**

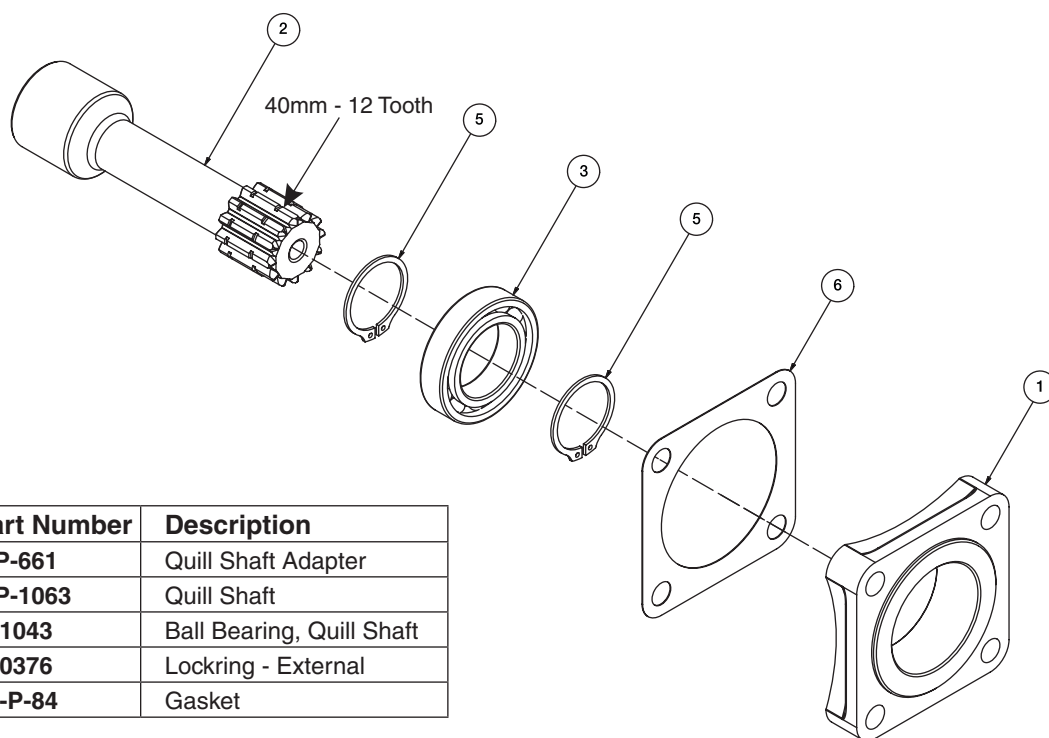


**329743X – Input Adapter Kit Assembly “AQ” –  
ZF 9S-75, 9S-109, 16S-109, 9S-1110TD, 9S-1110TO, 9S-1310TO**

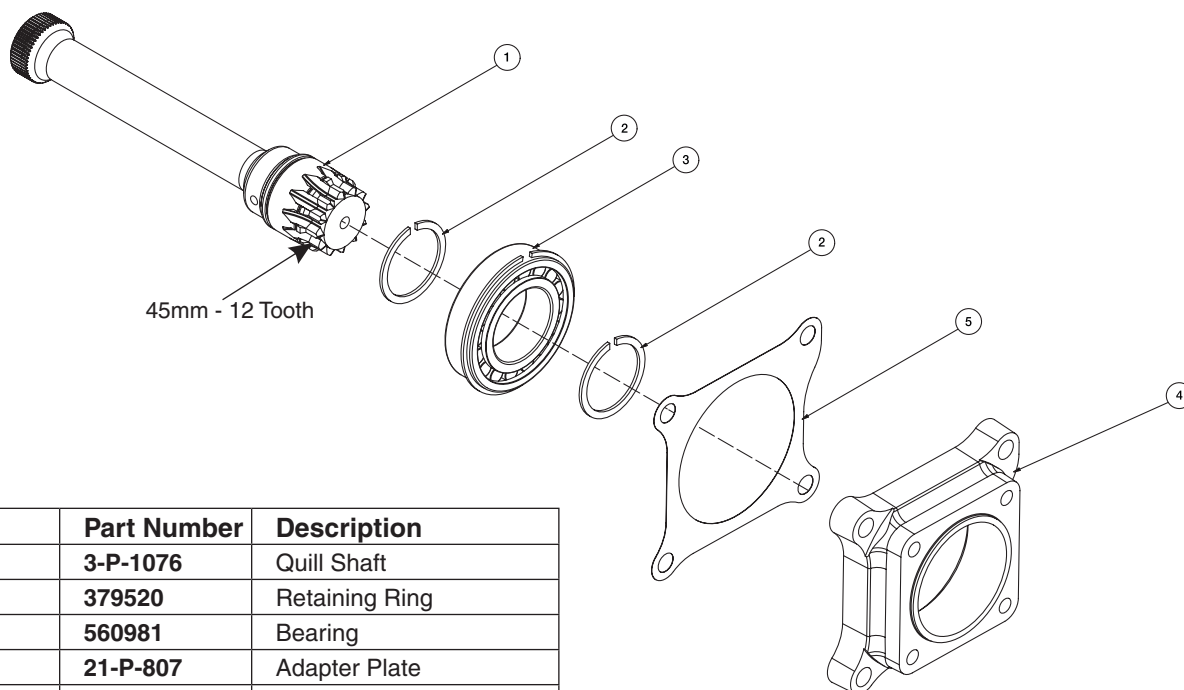


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**329745X – Input Adapter Kit Assembly “AK” – EATON FULLER FSO-10309**

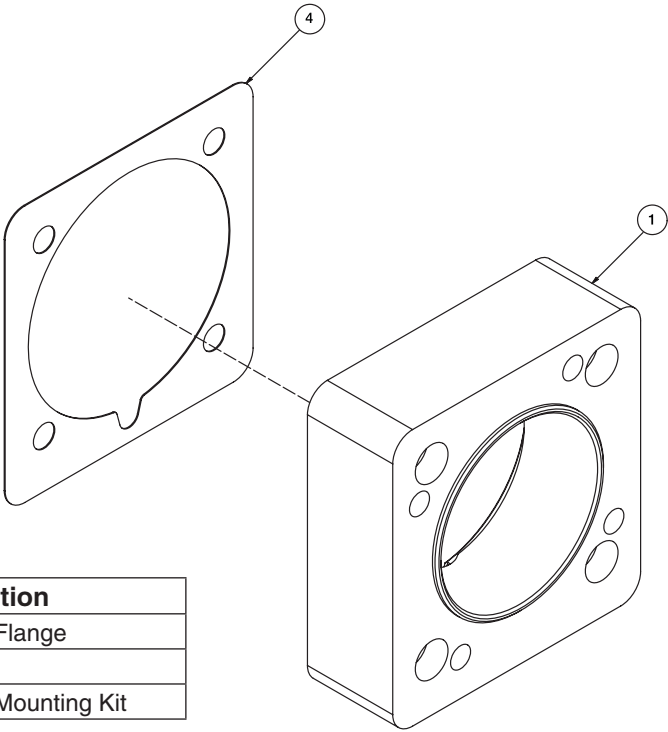
Item	Part Number	Description
1	1-P-661	Quill Shaft Adapter
2	3-P-1063	Quill Shaft
3	561043	Ball Bearing, Quill Shaft
5	380376	Lockring - External
6	22-P-84	Gasket

**329746X – Input Adapter Kit Assembly “AG” – Volvo R & VT**

Item	Part Number	Description
1	3-P-1076	Quill Shaft
2	379520	Retaining Ring
3	560981	Bearing
4	21-P-807	Adapter Plate
5	35-P-110	Gasket
N.S.	8000-40X	Adapter Mounting Kit

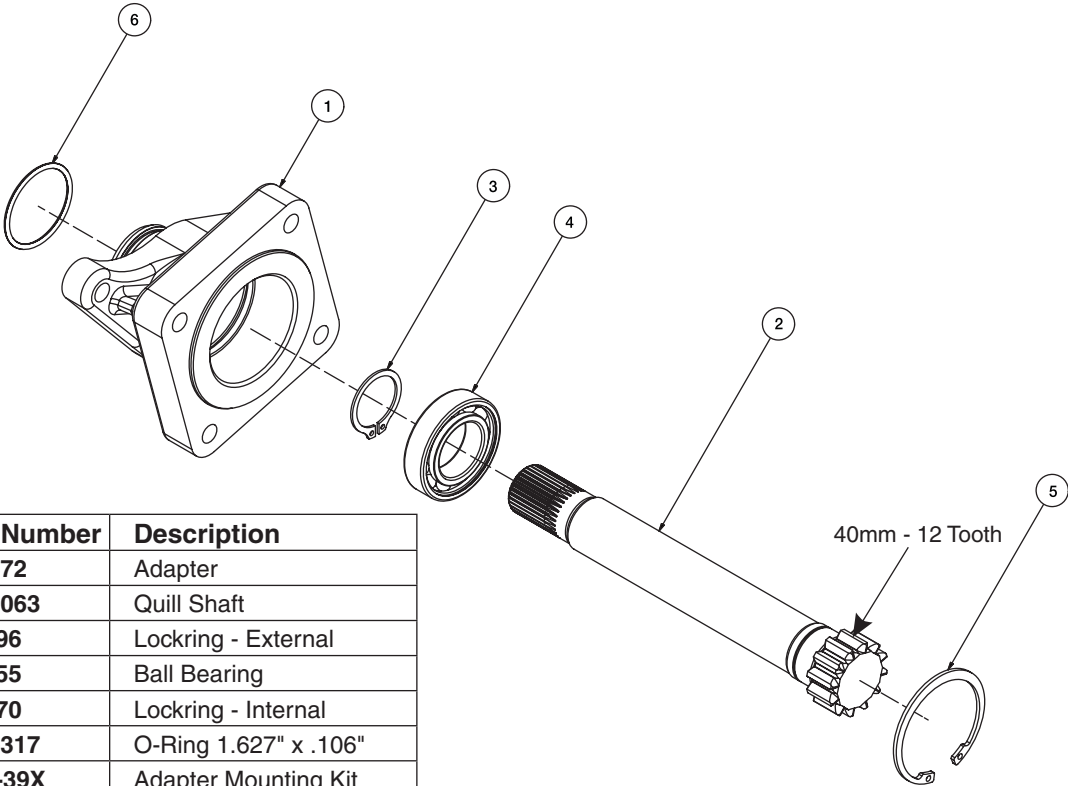
N.S. – Not Shown

329748X – Input Adapter Kit Assembly “AL” – EATON FULLER FS-6206, 6306, 6406



Item	Part Number	Description
1	1-P-669	Adapter Flange
4	22-P-136	Gasket
N.S.	8000-41X	Adapter Mounting Kit

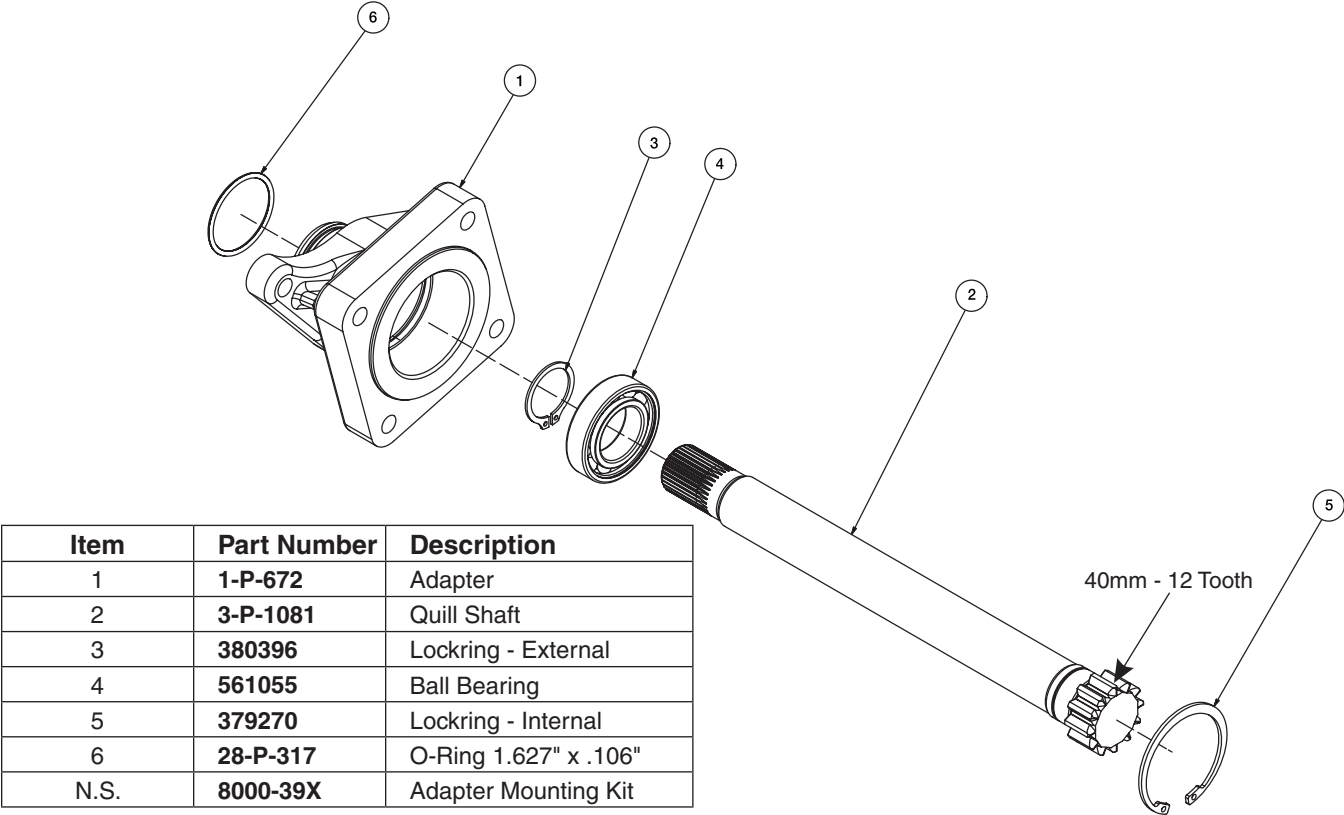
329751X – Input Adapter Kit Assembly “BJ” – EATON FULLER FTS-9, FTSO-9



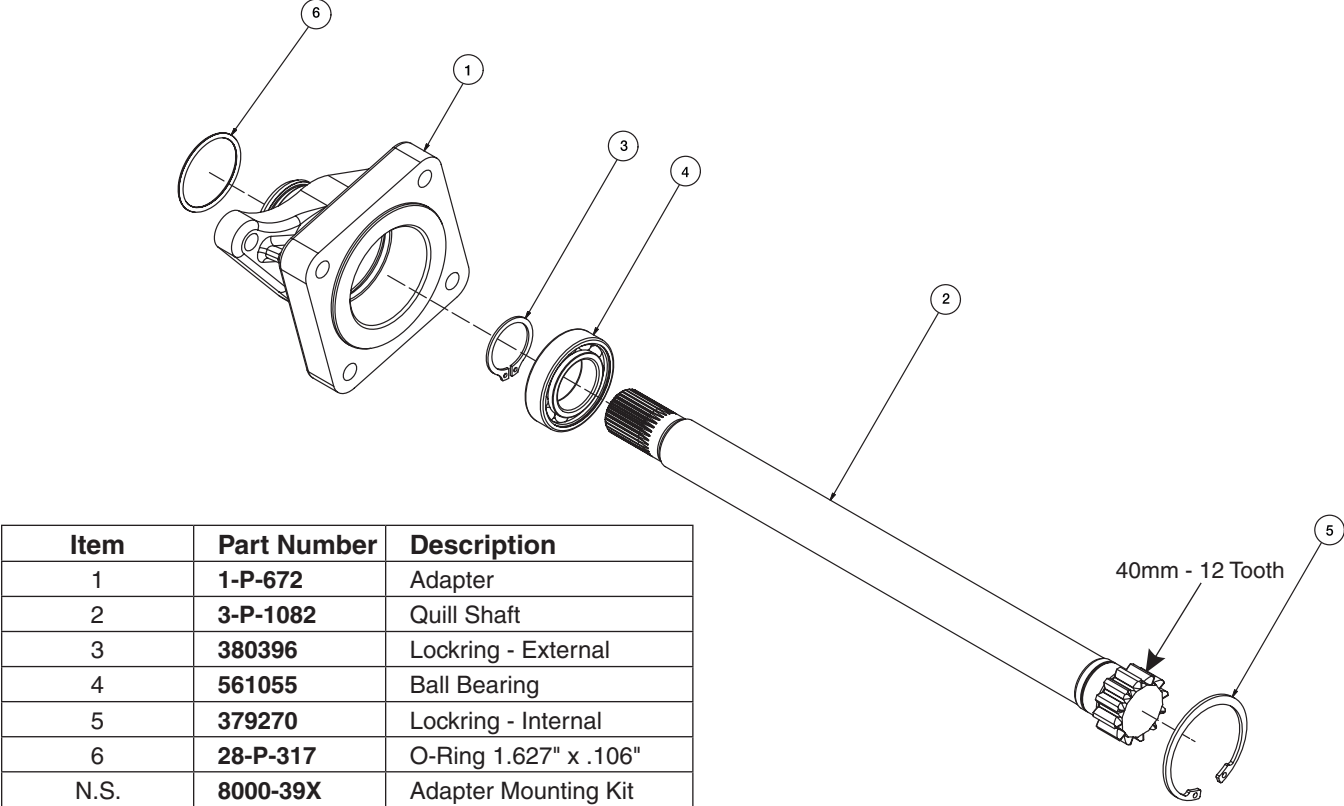
Item	Part Number	Description
1	1-P-672	Adapter
2	3-P-1063	Quill Shaft
3	380396	Lockring - External
4	561055	Ball Bearing
5	379270	Lockring - Internal
6	28-P-317	O-Ring 1.627" x .106"
N.S.	8000-39X	Adapter Mounting Kit

N.S. – Not Shown

329752X – Input Adapter Kit Assembly “LG” – EATON FULLER FTS-10, FTSO-10

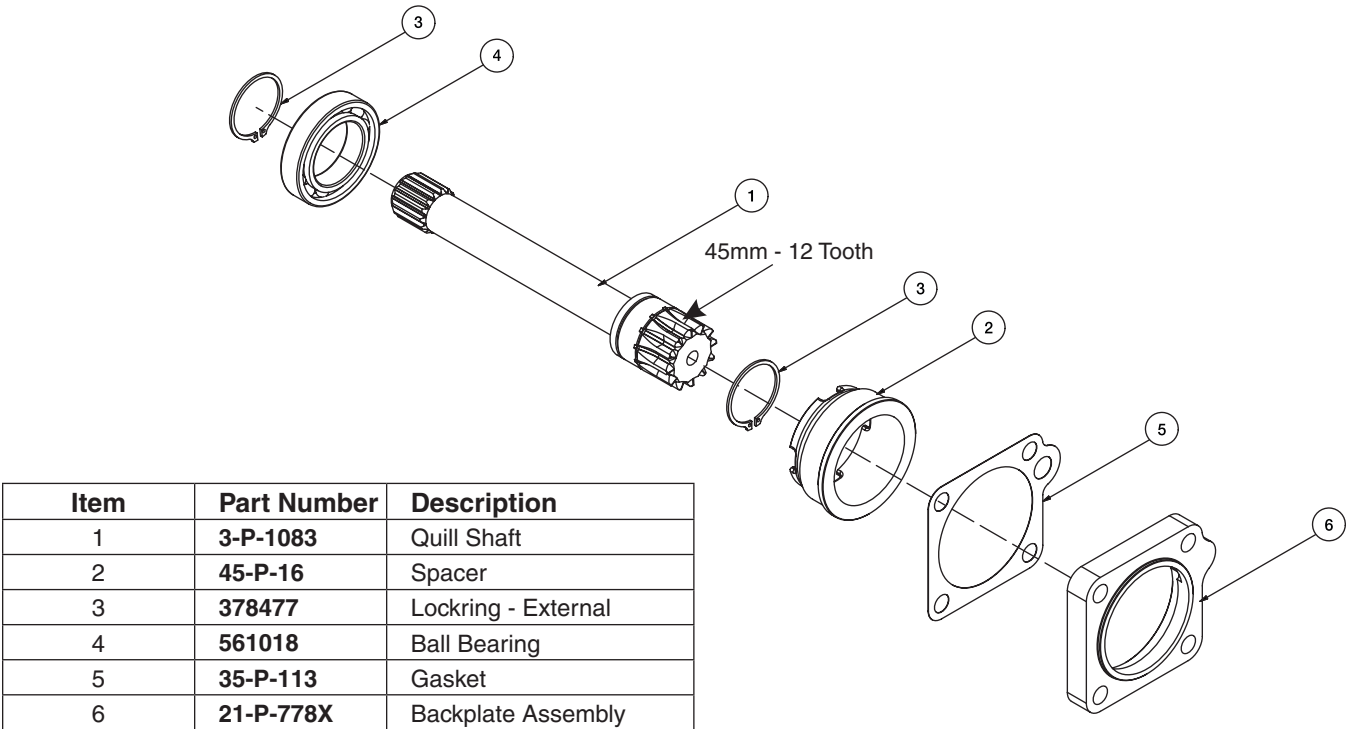


329753X – Input Adapter Kit Assembly “LH” – EATON FULLER FTS-13, FTSO-13

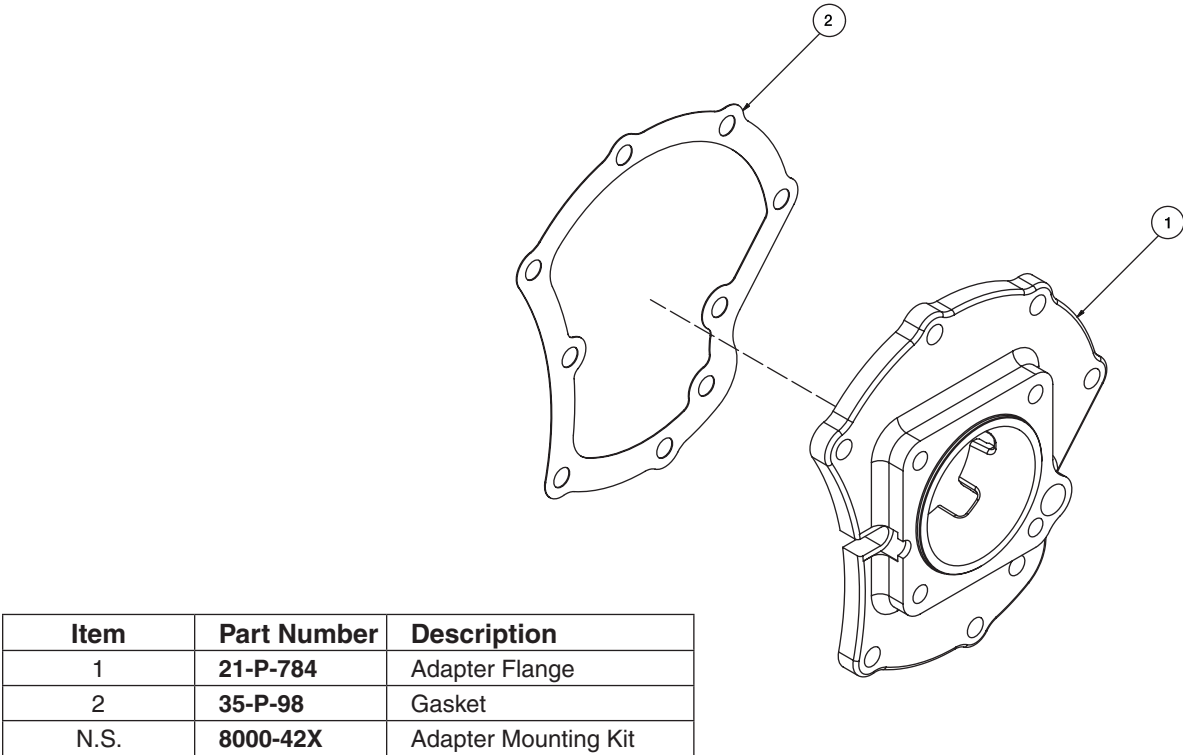


N.S. – Not Shown

**329755X – Input Adapter Kit Assembly “AC” – ZF Astronic Meritor Freedomline**

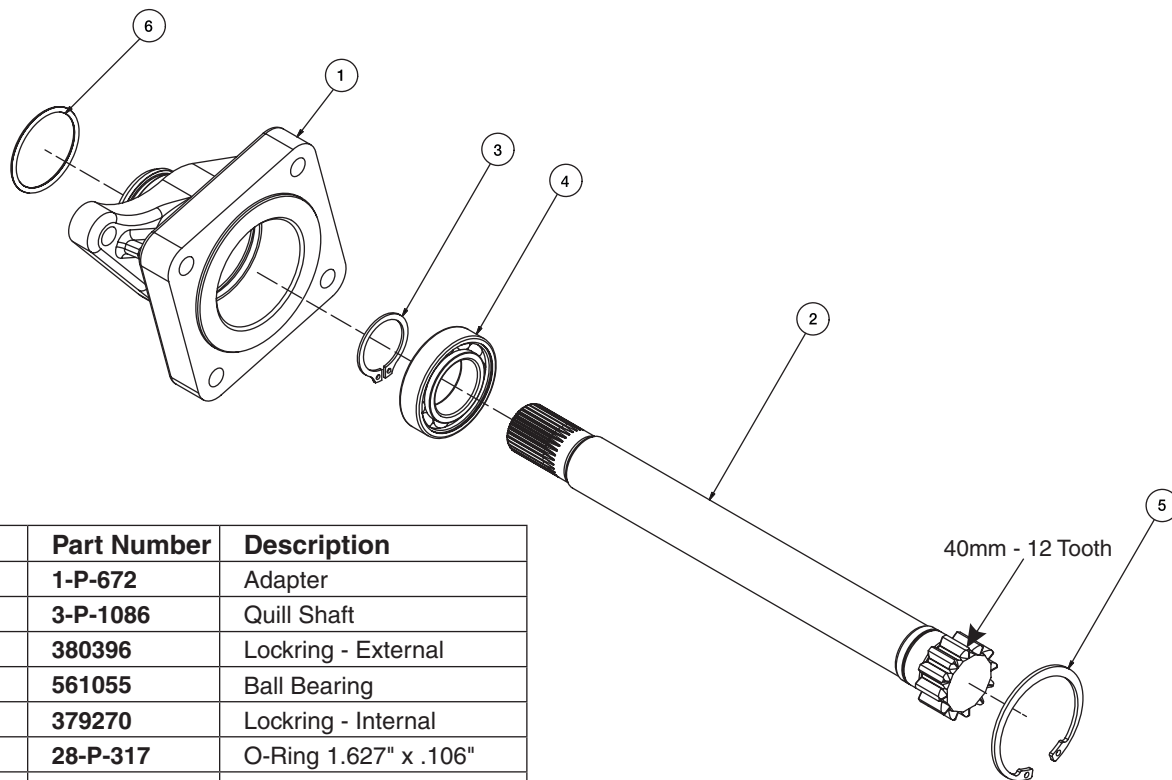


**329761X – Input Adapter Kit Assembly “AE” – Mercedes G60, G85**



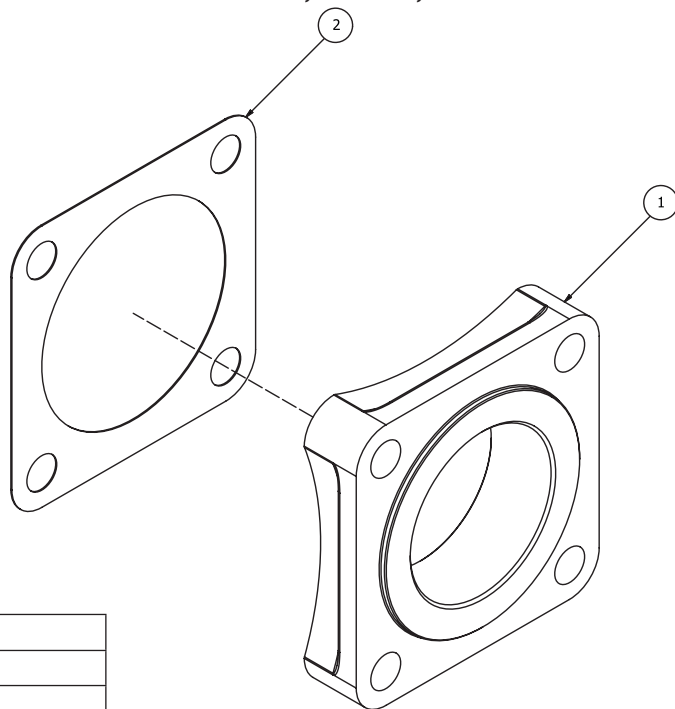
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**329767X – Input Adapter Kit Assembly “BD” – EATON FULLER FO-16E309ALL-VMS**



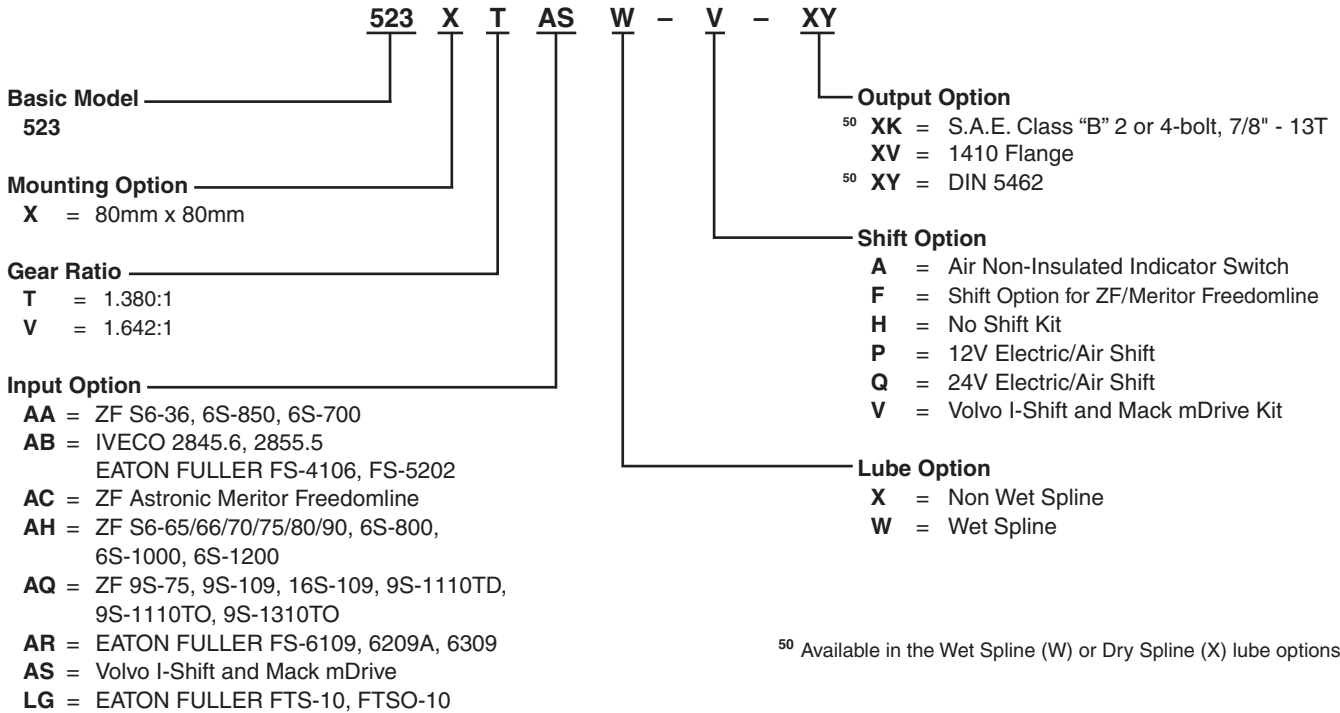
Item	Part Number	Description
1	1-P-672	Adapter
2	3-P-1086	Quill Shaft
3	380396	Lockring - External
4	561055	Ball Bearing
5	379270	Lockring - Internal
6	28-P-317	O-Ring 1.627" x .106"
N.S.	8000-39X	Adapter Mounting Kit

**329768X – Input Adapter Kit Assembly “AB” – IVECO 2845.6, 2855.5, EATON FULLER FS-4106, FS-5206**

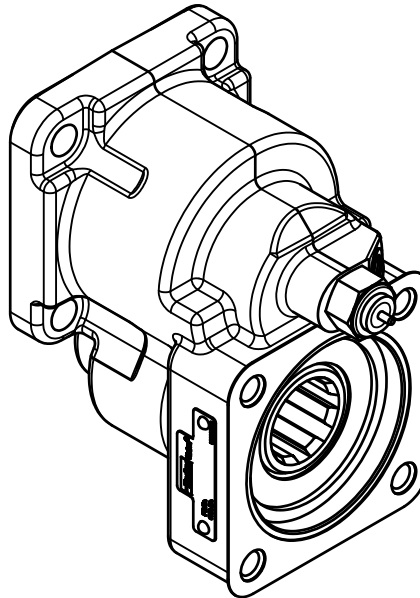


Item	Part Number	Description
1	21-P-786	Back Plate
2	22-P-84	Gasket

N.S. – Not Shown

**Model Number Chart****Parts List  
523 Series**

<sup>50</sup> Available in the Wet Spline (W) or Dry Spline (X) lube options.

**Housing Dimensions**

<b>328388-47X</b> P-Shift Installation Kit		<b>8000-23X</b> Stud Kit "AQ"	
328388-46X	Installation Kit .....	379140-7	Lockwasher - M12 ..... 4
378414	Pressure Protection Valve.....	379149-10	Socket HD. Capscrew M12 x 1.75" x 45mm Lg ..... 4
378881	Rocker Swivel .....		
378978	Indicator Light, 12V .....		
379044-6	Nylon Tubing .....	<b>8000-24X</b> Stud Kit "AR", "AK", 1"AB", "AC"	
379252	Butt Connector.....	379140-7	Lockwasher - M12 ..... 4
379258	Bracket.....	379149-11	Socket HD. Capscrew M12 x 1.75" x 50mm Lg ..... 4
379303-1	Valve 12V.....		
379336	Switch Bracket.....	<b>8000-25X</b> Stud Kit "AL"	
379254-3	Wire, Green .....	379140-7	Lockwasher - M12 ..... 4
379106	Breather Cap .....	379149-8	Socket HD. Capscrew M12 x 1.75" x 35mm Lg ..... 4
379640	Booted Connector.....		
<b>328388-82X</b> F-Shift Installation Kit		<b>8000-26X</b> Stud Kit "AG", "AS", "BJ", "BD", "LG", "LH"	
378416	Hex Nipple .....	379140-7	Lockwasher - M12 ..... 4
379042	Male Connector .....	379149-8	Socket HD. Capscrew M12 x 1.75" x 35mm Lg ..... 4
379043	Male Elbow .....		
379253	Ring Connector.....		
379257	Splice Connector .....		
500357-7	Lockwasher.....		
500457-6	Slotted Screw .....		
378414	Pressure Protection Valve.....		
379044-6	Nylon Tubing .....		
379258	Bracket.....		
75-P-10	Air Solenoid .....		
75-P-9	Harness .....		
379106	Breather Cap.....		
<b>328388-98X</b> Installation Kit Air Shift			
328388-97X	Air Shift .....		
329090-6X	Kit Valve .....		
379044-6	Nylon Tubing .....		
379130	Support Bracket.....		
379640	Booted Connector.....		
<b>329809X</b> Volvo I-Shift and Mack mDrive Installation Kit "AS"			
328751-1X	Cable/Lever Installation Kit .....		
379043	Male Elbow .125" NPT/Push .....		
379044-6	Nylon Tubing.....		
379652	Switch Indicator .....		
4-6 C5OX-S	90 Degree Elbow .....		
<b>8000-22X</b> Stud Kit "AA", "AD", "AE", "AH"			
379140-7	Lockwasher - M12 .....		
379149-7	Socket HD. Capscrew M12 x 1.75" x 30mm Lg .....		

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## Parker Hannifin Corporation – Chelsea Division

# Offer of Sale

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**5. Claims; Commencement of Actions.** Buyer shall promptly inspect all Products upon delivery. No claims for shortages will be allowed unless reported to the Seller within 10 days of delivery. No other claims against Seller will be allowed unless asserted in writing within 30 days after delivery. Buyer shall notify Seller of any alleged breach of warranty within 30 days after the date the defect is or should have been discovered by Buyer. Any action based upon breach of this agreement or upon any other claim arising out of this sale (other than an action by Seller for an amount due on any invoice) must be commenced within 12 months from the date of the breach without regard to the date breach is discovered.

**6. LIMITATION OF LIABILITY. UPON NOTIFICATION, SELLER WILL, AT ITS OPTION, REPAIR OR REPLACE A DEFECTIVE PRODUCT, OR REFUND THE PURCHASE PRICE. IN NO EVENT SHALL SELLER BE LIABLE TO BUYER FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR AS THE RESULT OF, THE SALE, DELIVERY, NON-DELIVERY, SERVICING, USE OR LOSS OF USE OF THE PRODUCTS OR ANY PART THEREOF, OR FOR ANY CHARGES OR EXPENSES OF ANY NATURE INCURRED WITHOUT SELLER'S WRITTEN CONSENT, EVEN IF SELLER HAS BEEN NEGLIGENT, WHETHER IN CONTRACT, TORT OR OTHER LEGAL THEORY. IN NO EVENT SHALL SELLER'S LIABILITY UNDER ANY CLAIM MADE BY BUYER EXCEED THE PURCHASE PRICE OF THE PRODUCTS.**

**7. User Responsibility.** The user, through its own analysis and testing, is solely responsible for making the final selection of the system and Product 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 and follow applicable industry standards and Product information. If Seller provides Product or system options, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the Products or systems.

**8. Loss to 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, will be considered obsolete and may be destroyed by Seller after two consecutive years have elapsed without Buyer ordering the items 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. Special Tooling.** A tooling charge may be imposed for any special tooling, including without limitation, dies, fixtures, molds and patterns, acquired to manufacture Products. 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 Products, 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.

**10. Buyer's Obligation; Rights of Seller.** To secure payment of all sums due or otherwise, Seller shall retain a security interest in the goods delivered and this agreement shall be deemed 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 its security interest.

**11. Improper use and Indemnity.** Buyer shall indemnify, defend, and hold Seller harmless from any claim, liability, damages, lawsuits, and costs (including attorney fees), whether for personal injury, property damage, patent, trademark or copyright infringement or any other claim, brought by or incurred by Buyer, Buyer's employees, or any other person, arising out of: (a) improper selection, improper application or other misuse of Products purchased by Buyer from Seller; (b) any act or omission, negligent or otherwise, of Buyer; (c) Seller's use of patterns, plans, drawings, or specifications furnished by Buyer to manufacture Product; or (d) Buyer's failure to comply with these terms and conditions. Seller shall not indemnify Buyer under any circumstance except as otherwise provided.

**12. Cancellations and Changes.** Orders shall not be subject to cancellation or change by Buyer 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. Seller may change product features, specifications, designs and availability with notice to Buyer.

**13. Limitation on Assignment.** Buyer may not assign its rights or obligations under this agreement without the prior written consent of Seller.

**14. Force Majeure.** Seller does not assume the risk 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, strikes or labor disputes, acts of any government or government agency, acts of nature, delays or failures in delivery from carriers or suppliers, shortages of materials, or any other cause beyond Seller's reasonable control.

**15. Waiver and Severability.** Failure to enforce any provision of this agreement will not waive that provision nor will any such failure prejudice Seller's right to enforce that provision in the future. Invalidation of any provision of this agreement by legislation or other rule of law shall not invalidate any other provision herein. The remaining provisions of this agreement will remain in full force and effect.

**16. Termination.** Seller may terminate this agreement for any reason and at any time by giving Buyer thirty (30) days written notice of termination. Seller may immediately terminate this agreement, in writing, if Buyer: (a) commits a breach of any provision of this agreement (b) appoints a trustee, receiver or custodian for all or any part of Buyer's property (c) files a petition for relief in bankruptcy on its own behalf, or by a third party (d) makes an assignment for the benefit of creditors, or (e) dissolves or liquidates all or a majority of its assets.

**17. Governing Law.** This agreement and the sale and delivery of all Products hereunder shall be 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 this agreement.

**18. 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 Section. Seller will defend and indemnify Buyer against allegations of infringement of U.S. patents, U.S. trademarks, copyrights, trade dress and trade secrets ("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 a Product sold pursuant to this Agreement 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 a Product 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 the Product, replace or modify the Product so as to make it noninfringing, or offer to accept return of the Product 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 Products 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 Product sold hereunder. The foregoing provisions of this Section shall constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights.

**19. Entire Agreement.** This agreement contains the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive expression of the terms of sale. All prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter are herein merged.

**20. Compliance with Law, U. K. Bribery Act and U.S. Foreign Corrupt Practices Act.** Buyer agrees to comply with all applicable laws and regulations, including both those of the United Kingdom and the United States of America, and of the country or countries of the Territory in which Buyer may operate, including without limitation the U. K. Bribery Act, the U.S. Foreign Corrupt Practices Act ("FCPA") and the U.S. Anti-Kickback Act (the "Anti-Kickback Act"), and agrees to indemnify and hold harmless Seller from the consequences of any violation of such provisions by Buyer, its employees or agents. Buyer acknowledges that they are familiar with the provisions of the U. K. Bribery Act, the FCPA and the Anti-Kickback Act, and certifies that Buyer will adhere to the requirements thereof. In particular, Buyer represents and agrees that Buyer shall not make any payment or give anything of value, directly or indirectly to any governmental official, any foreign political party or official thereof, any candidate for foreign political office, or any commercial entity or person, for the purpose of influencing such person to purchase products or otherwise benefit the business of Seller.

07/14



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