

Chelsea PTO Applications Catalog

Pro Gear Chelsea PTO Applications Catalog to assist with technical information for your Chelsea Power Take Off unit.

If you need any assistance identifying the correct Power Take Off unit for your truck and equipment, contact your Chelsea replacement part specialists at Pro Gear and Transmission.

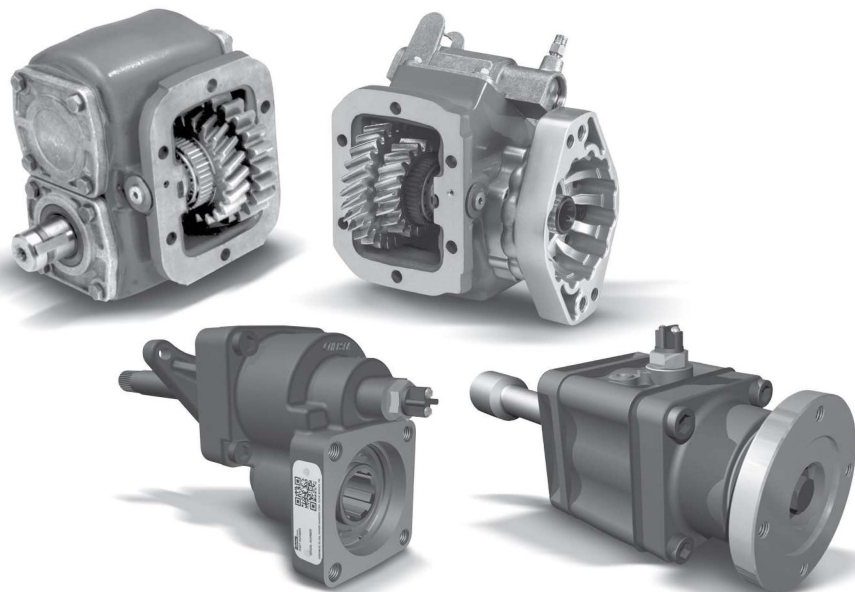
Pro Gear stocks every part for your Parker Chelsea PTO including: PTO housings, mounts, drive-shafts, gears, bearings, gaskets, cable shift cover assembly, post and plate assembly, brackets, stud kits, seal kits, lever control assembly, air shift cover assembly, direct mount pump conversion kits, stud kits including English and metric references, CAT D&H parts and much more.

Pro Gear Transmission has same day shipping and 1000's of products in stock and ready to ship internationally for your next project.

For parts or service contact the Chelsea specialists at Pro Gear & Transmission, Inc.

1 (877) 776-4600
(407) 872-1901
parts@eprogear.com

ZF



ENGINEERING YOUR SUCCESS.

RebuiltChelseaPTO.com by Pro Gear and Transmission • 906 W. Gore St. Orlando, FL 32805 • 1 (877) 776-4600 / (407) 872-1901

**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".

© Copyright 2018, Parker Hannifin Corporation, All Rights Reserved

ZF TRANSMISSION INDEX

Transmission Make and Model	PTO Appl. Number	Number Forward Speeds	Teeth in PTO Driver
12AS-1630TD (AS-Tronic)	ZF-66	12	CS
12AS-1930TD (AS-Tronic)	ZF-66	12	CS
12AS-1930TO (AS-Tronic)	ZF-64	12	CS
12AS-2130TD (AS-Tronic)	ZF-66	12	CS
12AS-2130TO (AS-Tronic)	ZF-64	12	CS
12AS-2140TD (AS-Tronic)	ZF-66	12	CS
12AS-2301 (AS-Tronic - 12.33/0.78 Ratio)	ZF-64	12	CS
12AS-2301 (AS-Tronic - 15.86/1.0 Ratio)	ZF-66	12	CS
12AS-2330TD (AS-Tronic)	ZF-66	12	CS
12AS-2330TO (AS-Tronic)	ZF-64	12	CS
12AS-2340TD (AS-Tronic)	ZF-66	12	CS
12AS-2530TD (AS-Tronic)	ZF-66	12	CS
12AS-2530TO (AS-Tronic)	ZF-64	12	CS
12AS-2540TD (AS-Tronic)	ZF-66	12	CS
12AS-2540TO (AS-Tronic)	ZF-64	12	CS
12AS-2740TO (AS-Tronic)	ZF-64	12	CS
12AS-2940TO (AS-Tronic)	ZF-64	12	CS
16AS-2601 (AS-Tronic - 14.12/0.83 Ratio)	ZF-65	16	CS
16AS-2630TO (AS-Tronic)	ZF-65	16	CS
6AS-700 (AS-Tronic Lite)	ZF-46	6	CS
6AS-850 (AS-Tronic Lite)	ZF-46	6	CS
6S-650 (Ford Only Prior to January 2007)	ZF-45	6	L39
6S-700	ZF-46	6	CS
6S-750 (Ford Only Prior to January 2007)	ZF-45	6	L39
6S-850 (6.72/0.78)	ZF-46	6	CS
6S-850 (ZF-ECOLITE, SYNCHROMESH, 6.72/0.78 Ratio)	ZF-46	6	CS
9S-1110 TD (12.72/1.00 Ratio)	ZF-7	9	CS
9S-1110 TO (9.48/0.75 Ratio)	ZF-7	9	CS
9S-1310 TD (12.72/1.00 Ratio)	ZF-7	9	CS
9S-1310 TO (9.48/0.75 Ratio)	ZF-7	9	CS
9S-1510 TO (9.48/0.75 Ratio)	ZF-7	9	CS
9S-910 TD (12.73/1.00 Ratio)	ZF-7	9	CS
S5-42 (7.5 Gas Wide Ratio)	ZF-4	5	L45-R45
S5-47 (Gas Wide Ratio 5.72/0.76)	ZF-4	5	L45-R45
S6-36 (6.93/0.80 Ratio)	ZF-2	6	CS
S6-650 (Ford Truck Models Prior to January 2007)	ZF-45	6	L39

ZF



IMPORTANT: See Safety Information in Section 1 of the Chelsea Applications catalog HY25-3000/US.

Transmission PTO Driver & Apertures (Viewed from Rear of Transmission)

L-Left Side R-Right Side B-Bottom Side T-Top Side CS-Countershaft

For transmissions not listed, contact your authorized Chelsea Distributor.

ZF TRANSMISSION INDEX

Transmission Make and Model	PTO Appl. Number	Number Forward Speeds	Teeth in PTO Driver
S6-650 (GM 3600 Cab/Chassis - Order Code ML6)	ZF-47	6	L39-R39
S6-850 (6.72/0.79 Ratio)	ZF-46	6	CS

ZF



IMPORTANT: See Safety Information
in Section 1 of the Chelsea Applications
catalog HY25-3000/US.

Transmission PTO Driver & Apertures (Viewed from Rear of Transmission)
L-Left Side R-Right Side B-Bottom Side T-Top Side CS-Countershaft
For transmissions not listed, contact your authorized Chelsea Distributor.

S6-36 (6.93/0.80 Ratio)

REAR SIDE ONLY**TRANSMISSION GEAR DATA:**

REAR 04-BOLT Opening

PITCH LINE TO APERTURE FACE:**CAUTION: Application Approval Required for PTO Output Shaft Speeds Above 2500 RPM**

PTO Model	Torq	Dir Rot	Engine %		Filler Block	Adapter Assy	Stud Kit	PTO Model	Torq	Dir Rot	Engine %		Filler Block	Adapter Assy	Stud Kit
	I / C †		Fwd	Rev					I / C †		Fwd	Rev			

REAR MOUNT & THRUSHAFT

511XRAAW-*-*	590 C	Opp	51				Furnished
523XTAAX-*-*	258 C	Eng	70				Furnished
523XVAAX-*-*	258 C	Eng	84				Furnished

† I = Intermittent Torque Only - De-Rate Torque Rating 30% for Continuous Duty.

C = Continuous or Intermittent Torque - No need to De-Rate Torque Rating.

IMPORTANT: Refer to the back of this transmission section and read all notes associated with this application page.
Some notes may affect the proper PTO selection.

S5-42 (7.5 Gas Wide Ratio)
S5-47 (Gas Wide Ratio 5.72/0.76)

LEFT SIDE ONLY

TRANSMISSION GEAR DATA:

L.S. 06-BOLT Opening Gear FORWARD of Centerline
45 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

1.1953" (30.3606MM)

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

R.S. 06-BOLT Opening Gear FORWARD of Centerline
45 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

1.1953" (30.3606MM)

CAUTION: Application Approval Required for PTO Output Shaft Speeds Above 2500 RPM

PTO Model	Torq I / C †	Dir Rot	Engine % Fwd Rev	Filler Block	Adapter Assy	Stud Kit	PTO Model	Torq I / C †	Dir Rot	Engine % Fwd Rev	Filler Block	Adapter Assy	Stud Kit
ONE SPEED - TWO GEAR - MECHANICAL SHIFT													
442XFGSX-*5 (1)	250 I	Opp	53			Furnished	442XFGSX-*3 (1)	250 I	Opp	53			Furnished
442XLGSX-*5 (2)	250 I	Opp	68			Furnished	442XLGSX-*3 (2)	250 I	Opp	68			Furnished
442XQGSX-*5 (2)	225 I	Opp	74			Furnished	442XQGSX-*3 (2)	225 I	Opp	74			Furnished
442XRG SX-*5 (2)	225 I	Opp	85			Furnished	442XRG SX-*3 (2)	225 I	Opp	85			Furnished
442XSGSX-*5 (2)	200 I	Opp	102			Furnished	442XSGSX-*3 (2)	200 I	Opp	102			Furnished
442XUGSX-*5 (2)	195 I	Opp	121			Furnished	442XUGSX-*3 (2)	195 I	Opp	121			Furnished
442XWGSX-*5 (2)	175 I	Opp	142			Furnished	442XWGSX-*3 (2)	175 I	Opp	142			Furnished
442XXGSX-*5 (2)	140 I	Opp	168			Furnished	442XXGSX-*3 (2)	140 I	Opp	168			Furnished

ONE SPEED - FORWARD & REVERSE

340XFEDX-*5 (3)	200 I	Opp	41	43	7-A-140 7-A-270	7170-4X	340XFEDX-*5 (3)	200 I	Opp	41	43	7-A-140 7-A-270	7170-4X
-----------------	-------	-----	----	----	--------------------	---------	-----------------	-------	-----	----	----	--------------------	---------

† I = Intermittent Torque Only - De-Rate Torque Rating 30% for Continuous Duty.

C = Continuous or Intermittent Torque - No need to De-Rate Torque Rating.

IMPORTANT: Refer to the back of this transmission section and read all notes associated with this application page.
Some notes may affect the proper PTO selection.

(1) Input Gear Part No. 5-P-1151
(2) Input Gear Part No. 5-P-1152
(3) Input Gear Part No. 5-P-897

9S-1110 TD (12.72/1.00 Ratio)
 9S-1110 TO (9.48/0.75 Ratio)
 9S-1310 TD (12.72/1.00 Ratio)
 9S-1310 TO (9.48/0.75 Ratio)
 9S-1510 TO (9.48/0.75 Ratio)
 9S-910 TD (12.73/1.00 Ratio)

REAR SIDE ONLY**TRANSMISSION GEAR DATA:**

REAR 04-BOLT Opening

PITCH LINE TO APERTURE FACE:**CAUTION: Application Approval Required for PTO Output Shaft Speeds Above 2500 RPM**

PTO Model	Torq	Dir	Engine %		Filler Block	Adapter Assy	Stud Kit	PTO Model	Torq	Dir	Engine %		Filler Block	Adapter Assy	Stud Kit
	I / C †		Fwd	Rev					I / C †		Fwd	Rev			

REAR MOUNT & THRUSHAFT

511XRAQW-**-*	590 C	Opp	97				Furnished
523XTAQX-**-*	258 C	Eng	134				Furnished
523XVAQX-**-*	258 C	Eng	159				Furnished

† I = Intermittent Torque Only - De-Rate Torque Rating 30% for Continuous Duty.

C = Continuous or Intermittent Torque - No need to De-Rate Torque Rating.

IMPORTANT: Refer to the back of this transmission section and read all notes associated with this application page.
 Some notes may affect the proper PTO selection.

6S-650 (Ford Only Prior to January 2007)
6S-750 (Ford Only Prior to January 2007)

LEFT SIDE ONLY**TRANSMISSION GEAR DATA:**

L.S. 06-BOLT Opening Gear FORWARD of Centerline
39 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

0.9330" (23.6982MM)

CAUTION: Application Approval Required for PTO Output Shaft Speeds Above 2500 RPM

PTO Model	Torq I / C †	Dir Rot	Engine % Fwd Rev	Filler Block	Adapter Assy	Stud Kit	PTO Model	Torq I / C †	Dir Rot	Engine % Fwd Rev	Filler Block	Adapter Assy	Stud Kit
-----------	-----------------	------------	---------------------	--------------	-----------------	----------	-----------	-----------------	------------	---------------------	--------------	-----------------	----------

ONE SPEED - TWO GEAR - MECHANICAL SHIFT

442XLHYX-*5 (1)	250 I	Opp	65			Furnished
442XQHXYX-*5 (1)	225 I	Opp	70			Furnished
442XRHYX-*5 (1)	225 I	Opp	81			Furnished
442XSHYX-*5 (1)	200 I	Opp	96			Furnished
442XUHYX-*5 (1)	195 I	Opp	115			Furnished
442XWHYX-*5 (1)	175 I	Opp	135			Furnished
442XXHYX-*5 (1)	140 I	Opp	160			Furnished

ONE SPEED - FORWARD & REVERSE

340XFHYX-*5 (2)	200 I	Opp	46	48		Furnished
-----------------	-------	-----	----	----	--	-----------

GEARED ADAPTERS

626XHYX-4JB	250 I	Eng				Furnished
630XHYX-4JB	250 I	Eng				Furnished
645XHYX-4JB	250 I	Eng				Furnished

† I = Intermittent Torque Only - De-Rate Torque Rating 30% for Continuous Duty.

C = Continuous or Intermittent Torque - No need to De-Rate Torque Rating.

IMPORTANT: Refer to the back of this transmission section and read all notes associated with this application page.
Some notes may affect the proper PTO selection.

(1) Input Gear Part No. 5-P-1237
(2) Input Gear Part No. 5-P-1245

6AS-700 (AS-Tronic Lite)
 6AS-850 (AS-Tronic Lite)
 6S-700
 6S-850 (ZF-ECOLITE, SYNCHROMESH, 6.72/0.78 Ratio)
 6S-850 (6.72/0.78)
 6S-850 (6.72/0.79 Ratio)

REAR SIDE ONLY**TRANSMISSION GEAR DATA:**

REAR 04-BOLT Opening

PITCH LINE TO APERTURE FACE:**CAUTION: Application Approval Required for PTO Output Shaft Speeds Above 2500 RPM**

PTO Model	Torq	Dir Rot	Engine %		Filler Block	Adapter Assy	Stud Kit	PTO Model	Torq	Dir Rot	Engine %		Filler Block	Adapter Assy	Stud Kit
	I / C †		Fwd	Rev					I / C †		Fwd	Rev			

REAR MOUNT - MECHANICAL SHIFT (6 SPEED TRANSMISSIONS)

511XRAAW-*-*	590 C	Opp	53				Furnished
523XTAAX-*-*	258 C	Eng	79				Furnished
523XVAAX-*-*	258 C	Eng	93				Furnished

† I = Intermittent Torque Only - De-Rate Torque Rating 30% for Continuous Duty.

C = Continuous or Intermittent Torque - No need to De-Rate Torque Rating.

IMPORTANT: Refer to the back of this transmission section and read all notes associated with this application page.
 Some notes may affect the proper PTO selection.

S6-650 (GM 3600 Cab/Chassis - Order Code ML6)

LEFT SIDE ONLY

TRANSMISSION GEAR DATA:

L.S. 06-BOLT Opening Gear FORWARD of Centerline
39 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

0.9330" (23.6982MM)

RIGHT SIDE ONLY

TRANSMISSION GEAR DATA:

R.S. 06-BOLT Opening Gear FORWARD of Centerline
39 Teeth - R.H. HELIX

PITCH LINE TO APERTURE FACE:

0.9330" (23.6982MM)

CAUTION: Application Approval Required for PTO Output Shaft Speeds Above 2500 RPM

PTO Model	Torq l / C †	Dir Rot	Engine % Fwd Rev	Filler Block	Adapter Assy	Stud Kit	PTO Model	Torq l / C †	Dir Rot	Engine % Fwd Rev	Filler Block	Adapter Assy	Stud Kit
ONE SPEED - TWO GEAR - MECHANICAL SHIFT													
442XLHYX-*5 (1)	250 l	Opp	65			Furnished	442XLHYX-*5 (1)	250 l	Opp	65			Furnished
442XQHYX-*5 (1)	225 l	Opp	70			Furnished	442XQHYX-*5 (1)	225 l	Opp	70			Furnished
442XRHYX-*5 (1)	225 l	Opp	81			Furnished	442XRHYX-*5 (1)	225 l	Opp	81			Furnished
442XSHYX-*5 (1)	200 l	Opp	96			Furnished	442XSHYX-*5 (1)	200 l	Opp	96			Furnished
442XUHYX-*5 (1)	195 l	Opp	115			Furnished	442XUHYX-*5 (1)	195 l	Opp	115			Furnished
442XWHYX-*5 (1)	175 l	Opp	135			Furnished	442XWHYX-*5 (1)	175 l	Opp	135			Furnished
442XXHYX-*5 (1)	140 l	Opp	160			Furnished	442XXHYX-*5 (1)	140 l	Opp	160			Furnished
ONE SPEED - FORWARD & REVERSE													
340XFHYX-*5 (2)	200 l	Opp	46	48		Furnished							
GEARED ADAPTERS													
626XHYX-4JB (1)	250 l	Eng				Furnished							
630XHYX-4JB (1)	250 l	Eng				Furnished							
645XHYX-4JB (1)	250 l	Eng				Furnished							

† I = Intermittent Torque Only - De-Rate Torque Rating 30% for Continuous Duty.

C = Continuous or Intermittent Torque - No need to De-Rate Torque Rating.

IMPORTANT: Refer to the back of this transmission section and read all notes associated with this application page.
Some notes may affect the proper PTO selection.

CAUTION: It is required by GM Truck that the 442 Series when mounted on the right side of the transmission must have the direct mount pump, with hard tubing coming out of the rear of the pump, up and over the transmission output shaft, and a heat shield must be installed to cover the PTO and the pump. Order Kit number 329333X for complete pump and heat shield installation parts.

(1) Input Gear Part No. 5-P-1237
(2) Input Gear Part No. 5-P-1245

12AS-1930TO (AS-Tronic)
 12AS-2130TO (AS-Tronic)
 12AS-2301 (AS-Tronic - 12.33/0.78 Ratio)
 12AS-2330TO (AS-Tronic)
 12AS-2530TO (AS-Tronic)
 12AS-2540TO (AS-Tronic)
 12AS-2740TO (AS-Tronic)
 12AS-2940TO (AS-Tronic)

REAR SIDE ONLY**TRANSMISSION GEAR DATA:**

REAR 00-BOLT Opening

PITCH LINE TO APERTURE FACE:**CAUTION: Application Approval Required for PTO Output Shaft Speeds Above 2500 RPM**

PTO Model	Torq		Dir	Engine %		Filler Block	Adapter Assy	Stud Kit	PTO Model	Torq		Dir	Engine %		Filler Block	Adapter Assy	Stud Kit
	I / C †			Fwd	Rev					I / C †			Fwd	Rev			

REAR MOUNT - MECHANICAL SHIFT (12 SPEED TRANSMISSIONS)

511XRACW-*	590 C	Opp	135					Furnished
523XTACX-*	258 C	Eng	186					Furnished
523XVACX-*	258 C	Eng	221					Furnished

† I = Intermittent Torque Only - De-Rate Torque Rating 30% for Continuous Duty.

C = Continuous or Intermittent Torque - No need to De-Rate Torque Rating.

IMPORTANT: Refer to the back of this transmission section and read all notes associated with this application page.
 Some notes may affect the proper PTO selection.

16AS-2601 (AS-Tronic - 14,12/0,83 Ratio)
16AS-2630TO (AS-Tronic)

REAR SIDE ONLY**TRANSMISSION GEAR DATA:**

REAR 00-BOLT Opening

PITCH LINE TO APERTURE FACE:

CAUTION: Application Approval Required for PTO Output Shaft Speeds Above 2500 RPM

PTO Model	Torq l / C †	Dir Rot	Engine % Fwd Rev	Filler Block	Adapter Assy	Stud Kit	PTO Model	Torq l / C †	Dir Rot	Engine % Fwd Rev	Filler Block	Adapter Assy	Stud Kit
-----------	-----------------	------------	---------------------	--------------	-----------------	----------	-----------	-----------------	------------	---------------------	--------------	-----------------	----------

REAR MOUNT - MECHANICAL SHIFT (16 SPEED TRANSMISSIONS)

511XRACW-*. *	590 C	Opp	111			Furnished
523XTACX-*. *	258 C	Eng	153			Furnished
523XVACX-*. *	258 C	Eng	182			Furnished

† I = Intermittent Torque Only - De-Rate Torque Rating 30% for Continuous Duty.

C = Continuous or Intermittent Torque - No need to De-Rate Torque Rating.

IMPORTANT: Refer to the back of this transmission section and read all notes associated with this application page.
Some notes may affect the proper PTO selection.

12AS-1630TD (AS-Tronic)
 12AS-1930TD (AS-Tronic)
 12AS-2130TD (AS-Tronic)
 12AS-2140TD (AS-Tronic)
 12AS-2301 (AS-Tronic - 15.86/1.0 Ratio)
 12AS-2330TD (AS-Tronic)
 12AS-2340TD (AS-Tronic)
 12AS-2530TD (AS-Tronic)

12AS-2540TD (AS-Tronic)

REAR SIDE ONLY

TRANSMISSION GEAR DATA:

REAR 00-BOLT Opening

PITCH LINE TO APERTURE FACE:

CAUTION: Application Approval Required for PTO Output Shaft Speeds Above 2500 RPM

PTO Model	Torq l / C †	Dir Rot	Engine % Fwd Rev	Filler Block	Adapter Assy	Stud Kit	PTO Model	Torq l / C †	Dir Rot	Engine % Fwd Rev	Filler Block	Adapter Assy	Stud Kit
-----------	-----------------	------------	---------------------	--------------	-----------------	----------	-----------	-----------------	------------	---------------------	--------------	-----------------	----------

REAR MOUNT - MECHANICAL SHIFT (12 SPEED TRANSMISSIONS)

511XRACW-*	590 C	Opp	82			Furnished
523XTACX-*	258 C	Eng	113			Furnished
523XVACX-*	258 C	Eng	134			Furnished

† I = Intermittent Torque Only - De-Rate Torque Rating 30% for Continuous Duty.

C = Continuous or Intermittent Torque - No need to De-Rate Torque Rating.

IMPORTANT: Refer to the back of this transmission section and read all notes associated with this application page.
 Some notes may affect the proper PTO selection.

ZF Notes

ZF-2

1. 511/523 Rear Mounts - Use adapter ring 45-P-21 with the 511 Series and 45-P-20 for the 523 Series.

ZF-4

1. No adapters available for this application.
2. The 100 Series will not mount on the left side due to interference with the reverse idler bulge.
3. Gas tank may prohibit the remote mounting of a hydraulic pump on the Left Hand side.
4. If there is interference with the exhaust system at the right hand aperture, use assembly arrangement "5".
5. Chelsea pump model P16-45 thru-85 can be direct mounted to PTOs. Larger pumps can not be direct mounted due to interference with the transmission.

ZF-7

1. 511/523 Rear Mounts-The adapter 329743X is furnished with the PTO

ZF-45

1. A "5" assembly is shown here, but other assembly arrangements may work better depending on the chassis setup, whether or not a direct mount pump is to be used, and whether or not a geared adapter is to be used. Chelsea P16-45 and -65 pumps can be direct mounted rearward if the PTO is a "3" assembly (bulge up), uses the XK pump flange, and is the L,R,S or U ratio. All other combinations will have interference problems. Chelsea P16-45 and -65 pumps can be direct mounted forward if a "4" assembly is used (bulge down), an XK pump flange is used, and is the L,R,S, or U ratio. All other combinations will have interference problems. Other ratios, assemblies, pump flanges and pumps may work if a geared adapter is used, but the PTO may be the lowest component on the truck. It would be vulnerable to damage.
2. The 236 series cannot be used on this transmission unless the truck is equipped with an auxiliary air supply.
3. If a 626, 630 or 645 series geared adapter is used, the PTO input gear is the 5-P-1244 JB gear, and the HY gear is used in the adapter. If a 626XHY, 630XHY or 645XHY Series geared adapter is going to be used, the PTO must be a deep mount (ex: 442Z*JB). Use a 7-A-125 filler block, gaskets to establish .006" -.012" backlash, and a 328170-76X stud kit to mount the PTO to the adapter. Be aware that using a geared adapter will change the direction of PTO rotation, but will not affect the speeds shown above.
4. Refer to Ford Body Builders Book (Power Take-Off Applications SEIC/PTO) for information on removal of a tab on the M60D transmission case. This will help in direct mount pump installations.
5. Ford Super Duty MY 2005 applications with the 6.8L gas engine may have PTO to engine exhaust pipe interference problems. It is recommended that you use an assembly arrangement "3". This still leaves the PTO close to the engine exhaust pipe. Route cable and wiring away from the exhaust pipe. Heat may be an issue for PTO operation due to the proximity of the engine exhaust pipe.

ZF-46

1. 511/523 Rear Mounts - Use adapter ring 45-P-21 with the 511 Series and 45-P-20 for the 523 Series.

ZF-47

1. Only 442 Series with the CABLE SHIFT option "W" and a SAE "A" 2 bolt output flange "RC" must be used on right side applications. The 442 Series must be "Shaft High" #5 assembly arrangement due to exhaust pipe interference. "RC" field conversion kit number 328591-112X ("XD" to "RC")
2. There is a left and right PTO opening for GM/ ZF S6-650, the LEFT side aperture can be used in 4 x 2 vehicles. There is a interference on the 4 x 4 vehicles due to the front wheel driveshaft on the LEFT side.
3. The 626 and 645 Series adapters will mount to this transmission (LEFT Side Only) with the 5-P-1237 gear in the adapter and the 5-P-1244 gear in the 442 Series. The 442 Series must use a deep mount housing, stud kit 328170-76X and 7-A-125 spacer to mount to the adapter.
4. Parker P16-45/65 pumps can be mounted rearward and direct to the 442 series on the LEFT side if the PTO is a 3 assembly, (bulge up), has the XK or RC flange, and is the F, L, R, S, or U ratio.
5. Wiring harness assembly number 329333-4X can be used on all applications to control engine speed. See owner's manual HY25-1135-M1/US for complete instructions.

ZF-64

1. 511/523 Rear Mounts-The adapter 329755X is furnished with the PTO

ZF-65

1. 511/523 Rear Mounts-The adapter 329755X is furnished with the PTO

ZF-66

1. 511/523 Rear Mounts-The adapter 329755X is furnished with the PTO

