

CHELSEA®



ZED-F S6-650 FOR GM (Z/F-47)

PTO-APP-170

APPLICATION

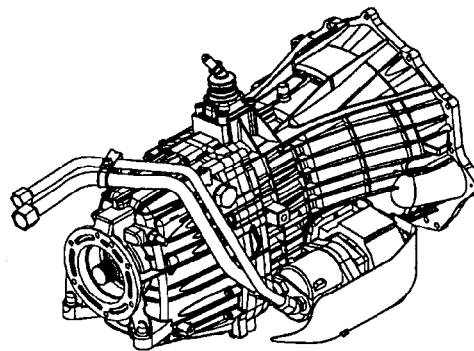
DATE: May 15, 2001

TO: All Chelsea® Power Take-Off Customers

Chelsea is pleased to announce the release of the 442 Series PTO for the NEW GM C/K 3600 cab-chassis (Z/F-47). This application has some special requirements for right side applications, as did the 251 Series on the Allison 1000 transmission for GM Truck.

GM Truck requires the use of a heat shield, hard tubes for the suction and discharge ports, direct mount pump, "RC" flange and an optional PTO wiring harness. 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 pump. The wiring harness interfaces with the engine control module for control of engine speed through the in dash PTO switch.

PTO INFO



Several features (Right Side) are:

- 442 Series operates from 65% to 160% of engine speed.
- Pumps used on this application range from 0.80 gal/min [3.028 liters/min] @ 1000 RPM to 6.20 gal/min [23.47 liters/min] @ 1000 RPM.
- Wiring harness to interface with the GM Power Control Module (PCM).
- "RC" Output Flange.

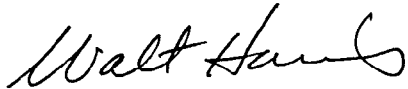
OVER

Drivetrain Service Division ♦ Dana Corporation ♦ www2.dana.com/expert ♦ www.dana.com
P.O. Box 321 ♦ Toledo, OH 43697 ♦ Phone: 419-866-3900 ♦ Fax: 419-866-3925

BH-PTO



There is an aperture pad on the left side of the transmission (driver side). P.T.O.s can be mounted on this side in 4 x 2 vehicle applications and geared adapters may also be used on this side. PTO wire harness assembly (part number 329333-4X) can also be used on this side; this will connect the PTO indicator switch to the GM power control module to control engine speed. This kit also includes the in dash PTO switch. See application page Z/F-47 for complete details



Walt Harris
Product Manager
Chelsea Auxiliary Power Products

This bulletin along with other technical, part number and application information can be found in the Expert located at **WWW.CHELSEAPOWERS.COM**.



LEFT SIDE ONLY	RIGHT SIDE ONLY
TRANSMISSION GEAR DATA: L.H. 6-Bolt Opening - Gear Forward of Centerline. 39 Teeth R.H. Helix PITCH LINE TO APERTURE FACE: 0.933" (23.6982mm)	TRANSMISSION GEAR DATA: R.H. 6-Bolt Opening - Gear Forward of Centerline. 39 Teeth R.H. Helix PITCH LINE TO APERTURE FACE: 0.933" (23.6982mm)

Caution: Application Approval Required For P.T.O. Output Shaft Speeds Above 2500 R.P.M.

Left Side P.T.O. Model	Inter. Torq.	Dir. Rot	Engine %			Filler Block	Adapter Assy.	Stud Kit	Right Side P.T.O. Model	Inter. Torq.	Dir. Rot	Engine %			Filler Block	Adapter Assy.	Stud Kit
			Hi	Lo	Rev							Hi	Lo	Rev			
ONE SPEED FORWARD & REVERSE																	
340XFHYX- ⁽¹⁾	200	Opp	46	-	48	-	-	FURNISHED									
352XSHYX- ⁽²⁾	140	Opp	98	-	126	-	-	FURNISHED									
ONE SPEED - TWO GEAR																	
442XLHYX- ⁽²⁾	250	Opp	65	-	-	-	-	FURNISHED	442XLHYX- ⁽²⁾	250	Opp	65	-	-	-	-	FURNISHED
442XQHYX- ⁽²⁾	225	Opp	70	-	-	-	-	FURNISHED	442XQHYX- ⁽²⁾	225	Opp	70	-	-	-	-	FURNISHED
442XRHYX- ⁽²⁾	225	Opp	81	-	-	-	-	FURNISHED	442XRHYX- ⁽²⁾	225	Opp	81	-	-	-	-	FURNISHED
442XSHYX- ⁽²⁾	200	Opp	96	-	-	-	-	FURNISHED	442XSHYX- ⁽²⁾	200	Opp	96	-	-	-	-	FURNISHED
442XUHYX- ⁽²⁾	195	Opp	115	-	-	-	-	FURNISHED	442XUHYX- ⁽²⁾	195	Opp	115	-	-	-	-	FURNISHED
442XWHYX- ⁽²⁾	175	Opp	135	-	-	-	-	FURNISHED	442XWHYX- ⁽²⁾	175	Opp	135	-	-	-	-	FURNISHED
442XXHYX- ⁽²⁾	140	Opp	160	-	-	-	-	FURNISHED	442XXHYX- ⁽²⁾	140	Opp	160	-	-	-	-	FURNISHED
ONE SPEED - DUAL SHAFT																	
452XSHYX- ⁽²⁾	140	Opp	98	-	-	-	-	FURNISHED									
GEARED ADAPTERS																	
626XHYX- ⁽²⁾	-	Eng	-	-	-	-	-	FURNISHED									
645XHYX- ⁽²⁾	-	Eng	-	-	-	-	-	FURNISHED									

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.

NOTE: Only 442 Series with the CABLE SHIFT option "W" and a SAE "A" 2 bolt output flange "RC" can 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").

NOTE: There is a left and right PTO opening for GM/Zed-F S6-650, the LEFT side aperture can be used in 4 x 2 vehicles. There is an interference on the 4 x 4 vehicles due to the front wheel driveshaft on the LEFT side.

NOTE: The 626 and 645 Series adapter 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.

NOTE: Chelsea P16-45/65 pumps can be mounted rearward and direct to the 442 Series on the LEFT side of the PTO is a 3 assembly, (bulge up), has the XK or RC flange, and is the F, L, R, S or U ratio.

NOTE: Wiring harness assembly number 329333-4X can be used on all applications to control engine speed. See owner's manual 379135 for complete instructions.

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