	ZED F TRANSMISSION													RIGHT SIDE ONLY (LEFT SIDE TURN PAGE)						
1													ZF 8-BOLT OPENING							
		NCIE	® IN HY			POWERLINE PACCAR TX8 Footnotes (2, 3, 4, & 5)							PTO DRIVE GEAR DA 51T 9.42P 20°PA 22.0° R LOCATION: Front PLV: 1417 FPM			ATA: H. LMF: 3.891 PM: 1,000				
Î	8-BOLT TYPE	MOD		O JMBER	FOOT NOTES	SHAF	T ION	ENGIN HI LO	E % RE\	ADA	PTER	S	PACE	R	STUD KIT	SH TY	IFT PE	INTERMITTEN @ 1,000 RPI Torque	NT RATING M of Pto HP	
0 RPM.	CLUTCH SHIFT	P58-2 P58-2 P60-2	Z1110-> Z1107-> Z1110->	KX52IBX KX52IBX KX52IBX	1 1 1	Crnk Crnk Crnk	(1 (1	121 92 121							Included Included Included	A A A	ir ir ir	420 331 258	80 63 49	
EXCEED 2,50	FOOTNOTES: 1 P58 Series available as pneumatic shift only 2 Chassis must be ordered with correct PTO prep codes 3 Connection to chassis "PTO ENGAGED SIGNAL" circuit must be made when PTO is engaged. Contact dealer for connection type and location. 4 Truck must be ordered with correct exhaust package for the PTO clearance. Contact dealer for details. 5 PTO operation permitted only in stationary or crawl modes.																			
HAFT SPEED NOT TO E	 Pump Selection Example: First you need to know the flow and pressure requirement of your application. Next find the closest pump output flow from the chart that is based on the most appropriate engine speed for your application. Follow the grid up to th top to read the basic pump series and size. This is the pump that will give you the flow you desire. If your system required 8 GPM to operate. Then you would look for 8 GPM in the columns. Finding the first one under the pump PH1-07 would give you a pump which will deliver the 8 GPM you require at an engine speed of 1,000 RPM. You would also get 8 GPM if you select the PH1-05 pump, but you would need to operate the engine at 1,300 RPM. After you have selected the Pump Series and size the complete pump model number can be ordered. The PH Series would follow PH1-**-02BSBR-S for "BB" output option. PK Series would follow PK1-**-02BSBB-S for "BB" output option. MODEL P58-Z1110-XX5BB*X or P60-Z1110-XX5BB*X (PTO OUTPUT "BB") APPROXIMATE PUMP OUTPUT FLOW AN MAXIMUM PRESSURE 															to the e , but				
NT S			PH1-11		PH1-09		PH1-08		PH	PH1-07		PH1-05		11-03						
Ë			GPM	MAX. PSI	GPM N	MAX. PSI	GPM	MAX. PSI	GPM	MAX. PSI	GPM	MAX. PSI	GPM	MAX. PS	51					
б	ENGINE	900	117	2 500	10.2	2 900	8.8	3 250	73	3 500	5.8	3 500	29	3 500						
Σ	SPEED	1.000	13.0	2,500	11.4	2,900	9.7	3,250	8.1	3,500	6.5	3.500	3.2	3,500	-					
Π		1,100	14.3	2,500	12.5	2,900	10.7	3,250	8.9	3,500	7.1	3,500	3.6	3,500						
X		1,200	15.6	2,500	13.6	2,900	11.7	3,250	9.7	3,500	7.8	3,500	3.9	3,500						
A		1,300	16.9	2,500	14.8	2,900	12.7	3,250	10.6	3,500	8.4	3,500	4.2	3,500						
2		1,400	18.2	2,500	15.9	2,900	13.6	3,250	11.4	3,500	9.1	3,500	4.5	3,500	_					
Z		1,500	19.5	2,500	17.1	2,900	14.6	3,250	12.2	3,500	9.7	3,500	4.9	3,500	_					
Ĕ		1,600	20.8	2,500	18.2	2,900	15.6	3,250	13.0	3,500	11.4	3,500	5.5	3,500	-					
P		1,800	23.4	2,500	20.5	2,900	17.5	3 250	14.6	3,500	11.7	3,500	5.8	3,500	-					
Ũ		1,900	24.7	2,500	21.6	2,900	18.5	3,250	15.4	3,500	12.3	3,500	6.2	3,500						
		2,000	26.0	2,500	22.7	2,900	19.5	3,250	16.2	3,500	13.0	3,500	6.5	3,500						
		MODI MAXI NOTE	ODEL P58-Z1110-XX5BB*X or P60-Z1110-XXX5BB*X (PTO OUTPUT "BB") APPROXIMATE PUMP OUTPUT FLOW AND AXIMUM PRESSURE DTE: PUMP P/N PK1-**-02BSBB-S																	
			PK1-17 3.94 cu. in./Rev		PK1-15 3.45 cu. in./Rev		PK1-13 2.96 cu. in./Rev		PK1-11 2.46 cu. in./Rev		PK1-08		3 PK1-06		PLEASE	NOT	E:			
											1.97 c	u. in./Rev	n./Rev 1.47 cu. in./Rev		If you ar	e acc ilic pi	ustomed to orderii		ering he	
			GPM	MAX. PSI	GPM N	IAX. PSI	GPM	MAX. PSI	GPM	MAX. PSI	GPM	MAX. PSI	GPM	MAX. PS	pump m	odel i	numb	er, you ma	ay be	
	ENGINE	900	18.6	2,500	16.3	2,500	14.0	3,000	11.6	3,000	9.3	3,000	6.9	3,000	ordering	a pui when	mp la vou a	rger than y polv that r	you oump	
	SPEED	1,000	20.6	2,500	18.1	2,500	15.5	3,000	12.9	3,000	10.3	3,000	7.7	3,000	to this a	pplica	tion.			
		1,100	22.7	2,500	19.9	2,500	17.1	3,000	14.2	3,000	11.4	3,000	8.5	3,000	To calcu	late th	ne PT	0 output s	peed:	
		1,200	24.8	2,500	21.7	2,500	18.6	3,000	15.5	3,000	12.4	3,000	9.2	3,000	Engine s	speed	× 12	1% = PTO) no	
		1,300	26.8	2,500	23.5	2,500	20.2	3,000	16.8	3,000	13.4	3,000	10.0	3,000	speed o	f 1,40	0 RPI	M would y	ield	
		1,400	28.9	2,500	25.3	2,500	21.1	3,000	10.0	3,000	14.4	3,000	11.8	3,000	the follo	wing:				
		1,600	33.0	2,500	28.9	2,500	24.8	3,000	20.6	3,000	16.5	3,000	12.3	3.000	1,400 ×	1.21 :	= 1,69	94 RPM P	10	
		1,700	35.1	2,500	30.7	2,500	26.4	3,000	21.9	3,000	17.5	3,000	13.1	3,000	A 7 GPM	/ num	n (lik	e the PH1.	-07)	
		1.800	37.1	2.500	32.5	2.500	27.9	3.000	23.2	3.000	18.6	3.000	13.9	3.000	would d	eliver	a the	oretical ou	itput	

PK Series requires pump support bracket. Use PK1-**-02BSBB-S which includes extended studs on pump.

23.2

24.5

25.8

* Theoretical Flow Shown.

2,500

2,500

2,500

32.5

34.3

36.1

2,500

2,500

2,500

27.9

29.5

31.0

3,000

3,000

3,000

3,000

3,000

3,000

18.6

19.6

20.6

3,000

3,000

3,000

13.9

14.6

15.4

3,000

3,000

3,000

1,800

1,900

2,000

37.1

39.2

41.3

flow of: Disp. × RPM/231

1.55 × 1,694/231 = 11.4 GPM

	ZED F TRANSMISSION													FT SIDE		[
1													ZF 8-			ונ		
				ERPUMP	POWERLINE PACCAR TX8 Footnotes (2, 3, & 4)								DRIVE 42P 20 TION: 1417 FF	E GEAR)°PA 22.0 Front PM	DATA: ° R.H. PLMF: 3.89 RPM: 1,00	ATA: R.H. PLMF: 3.891 IPM: 1,000		
	8-BOLT TYPE	MOD		O JMBER	FOOT NOTE	SHA	IFT	ENGIN HI LO	NE % D REV		PTER	S	PACE	R	STUD KIT	SHIFT TYPE	INTERMITTE @ 1,000 RP TORQUE	NT RATING M of Pto HP
DO RPM.	CLUTCH SHIFT	P58-2 P58-2 P60-2	Z1110-> Z1107-> Z1110->	XX52IPX XX52IPX XX52IPX	1 1 1	Crr Crr Crr	ik ik ik	121 92 121							Included Included Included	Air Air Air	420 331 258	80 63 49
XCEED 2,50	FOOTNOTES: 1 P58 Series available as pneumatic shift only 2 Chassis must be ordered with correct PTO prep codes 3 Connection to chassis "PTO ENGAGED SIGNAL" circuit must be made when PTO is engaged. Contact dealer for connection type and location. 4 PTO operation permitted only in stationary or crawl modes																	
Ξ	Pum	p Sele	ction	Example):					- 11 41								
5	a. b.	Next fir	nd the c	to know t losest pur	ne flow a np outpl	na pressu It flow froi	ire requ m the c	hart that is	r your ap s based o	plication.	st appro	priate en	aine spe	eed for vo	our application	. Follow th	e grid up	to the
01	top to read the basic pump series and size. This is the pump that will give you the flow you desire.															0 1		
ž	с.	If your	system	requires 8	B GPM to	operate, 8 GPM v	then yo	u would lo uire at an e	ook for 8	GPM in t	1e colum	ns. Findii	ng the f	irst one u get 8 GF	nder the pump) PH1-07 v st the PH1	vould give	e but
B		you a pump which will deliver the 6 GPW you require at an engine speed of 1,000 HPM. You would also get 8 GPW if you select the PH1-05 pump you would need to operate the engine at 1,300 RPM.															, but	
Ш	d.	After yo	ou have	selected	the Pum	Series a	nd size	the comp	lete pum	p model i	number o	an be or	dered.					
ร	The PH Series would follow PH1-**-02BSBR-S for "BB" output option. PK Series would follow PK1-**-02BSBB-S for "BB" output option.																	
Ē		MODE		B-Z1110	-XX5BI	3*X or P	60-Z1	110-XX	5BB*X	(PTO O	UTPUT	"BB")	APPR	OXIMA	TE PUMP C	OUTPUT	FLOW	and
Ϊ		NOTE	: PUN	1P P/N P	ארב 11-**-(D2BSBF	R-S											
Ĕ			PH1-11		PH1_09		PH	DH1_08		1-07	PH.	1-05	PH1-03		7			
PG			2.48 cu. in./Rev		2.17 cu. in./Rev		1.86 cu. in./Rev		1.55 ct	1.55 cu. in./Rev		1.24 cu. in./Rev		u. in./Rev				
5			GPM	MAX. PSI	GPM I	MAX. PSI	GPM	MAX. PSI	GPM I	MAX. PSI	GPM N	IAX. PSI	GPM	MAX. PSI				
0	ENGINE	900	11.7	2,500	10.2	2,900	8.8	3,250	7.3	3,500	5.8	3,500	2.9	3,500				
N	SPEED	1,000	13.0	2,500	11.4	2,900	9.7	3,250	8.1	3,500	6.5	3,500	3.2	3,500	_			
Σ		1,100	14.3	2,500	12.5	2,900	10.7	3,250	8.9	3,500	7.1	3,500	3.6	3,500	_			
¥		1.300	16.9	2,500	14.8	2,900	12.7	3.250	10.6	3,500	8.4	3,500	4.2	3,500	-			
Σ		1,400	18.2	2,500	15.9	2,900	13.6	3,250	11.4	3,500	9.1	3,500	4.5	3,500				
ä		1,500	19.5	2,500	17.1	2,900	14.6	3,250	12.2	3,500	9.7	3,500	4.9	3,500				
2		1,600	20.8	2,500	18.2	2,900	15.6	3,250	13.0	3,500	10.4	3,500	5.2	3,500	_			
5		1,700	22.1	2,500	19.3	2,900	16.6	3,250	13.8	3,500	11.0	3,500	5.5	3,500	_			
S		1,900	23.4	2,500	20.5	2,900	18.5	3,250	15.4	3,500	12.3	3,500	6.2	3,500	-			
		2,000	26.0	2,500	22.7	2,900	19.5	3,250	16.2	3,500	13.0	3,500	6.5	3,500				
		MODE	L P58	3-Z1110-	XXBB*	X or P6	0-Z11	10-XX5I	BB*X (F	TO OU	TPUT '	'BB'') A	PPRO	XIMATI	E PUMP OL	JTPUT F	LOW A	ND
		MAXIN	NUM	PRESSL	JRE													
		NOTE			K1-**-02BSBE										┐ ┌────			
					PK1-15		PK1-13			PK1-11		1-08	PK1-06		PLEASE	NOTE:		
			GPM	MAX	GPM I		GPM	MAX PS	CPM	ΜΔΥ	GPM	MAY	GPM	MAX PS	If you are a hydrau	e accuston llic pump b	ned to ord ased on t	lering he
	ENCINE	000		0.500	10.0	0.500	14.0	0.000	PSI	0.000	PSI	0.000		0.000	pump m	odel numb	er, you ma	ay be
	SPEED	1 000	20.6	2,500	18.1	2,500	14.0	3,000	12.9	3,000	9.3	3,000	7.7	3,000	require v	vhen you a	pply that	pump
		1,100	22.7	2,500	19.9	2,500	17.1	3,000	14.2	3,000	11.4	3,000	8.5	3,000	to this ap	oplication.	0	
		1,200	24.8	2,500	21.7	2,500	18.6	3,000	15.5	3,000	12.4	3,000	9.2	3,000	Engine s	peed × 12	1% = PTC))
		1,300	26.8	2,500	23.5	2,500	20.2	3,000	16.8	3,000	13.4	3,000	10.0	3,000	output s	peed. Exar	nple: Engi	ne
		1,400	28.9	2,500	25.3	2,500	21.7	3,000	18.0	3,000	14.4	3,000	10.8	3,000	the follow	wing:	vi woula y	leiu
		1,600	33.0	2,500	28.9	2,500	24.8	3,000	20.6	3,000	16.5	3,000	12.3	3,000	1,400 × 1	1.21 = 1,69	4 RPM P	то
		1,700	35.1	2,500	30.7	2,500	26.4	3,000	21.9	3,000	17.5	3,000	13.1	3,000				07)
		1,800	37.1	2,500	32.5	2,500	27.9	3,000	23.2	3,000	18.6	3,000	13.9	3,000	A / GPN would de	i pump (lik eliver a the	e της PH1 oretical οι	-07) utput
		1,900	39.2	2,500	34.3	2,500	29.5	3,000	24.5	3,000	19.6	3,000	14.6	3,000	flow of: [Disp. × RPI	M/231	
		2,000	41.3	2,500	36.1	2,500	31.0	3,000	25.8	3,000	20.6	3,000	15.4	3,000	1.55 × 1	,094/231 =	11.4 GPI	VI

PK Series requires pump support bracket. Use PK1-**-02BSBB-S which includes extended studs on pump.

* Theoretical Flow Shown.