
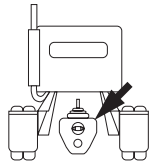
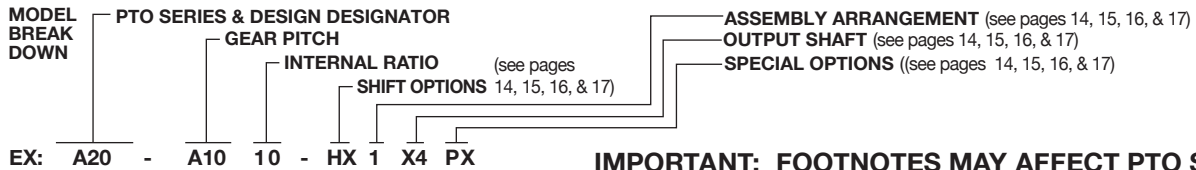


CAUTION: MAXIMUM OUTPUT SHAFT SPEED NOT TO EXCEED 2,500 RPM.

ALLISON TRANSMISSION								TOP SIDE ONLY (LEFT SIDE TURN PAGE)				
	3000*** SERIES *** (EVS, RDS, SPS) (MHS, BUS, TRV Optional) MD-SERIES W/TOP OPENING MD-3060P, MD3066P, MD3560P Footnotes (1, 2, 3, & 5)							ALLISON 10-BOLT OPENING PTO DRIVE GEAR DATA: 83T 10.16P L.H. LOCATION: Front PLMF: 1.775 PLV: 2266 FPM RPM: 1,000				
								10-BOLT TYPE	PTO MODEL NUMBER	FOOT NOTES	SHAFT ROTATION	
CONST. DRIVE MULTI GEAR									CONTINUOUS AND INTERMITTENT RATINGS ARE SAME			
	A30-A1005-MX5X4BX	7	Crnk	90	Included	None	None	400	77	N/A	N/A	
	A30-A1006-MX5X4BX	7	Crnk	104	Included	None	None	400	77	N/A	N/A	
	A30-A1007-MX5X4BX	7	Crnk	121	Included	None	None	415	79	N/A	N/A	
	A30-A1008-MX5X4BX	7	Crnk	139	Included	None	None	360	69	N/A	N/A	
	A30-A1009-MX5X4BX	7	Crnk	149	Included	None	None	340	65	N/A	N/A	
	A30-A1010-MX5X4BX	7	Crnk	160	Included	None	None	210	59	N/A	N/A	
	A30-A1011-MX5X4BX	7	Crnk	184	Included	None	None	275	52	N/A	N/A	
	A30-A1012-MX5X4BX	7	Crnk	198	Included	None	None	265	50	N/A	N/A	
A30-A1015-MX5X4BX	7	Crnk	245	Included	None	None	205	39	N/A	N/A		
CLUTCH SHIFT MULTI GEAR									CONTINUOUS AND INTERMITTENT RATINGS ARE SAME			
	A20-A1005-HX5X4BX	6, 7, 8	Crnk	90	Included	Power	None	400	77	N/A	N/A	
	A20-A1006-HX5X4BX	6, 7, 8	Crnk	104	Included	Power	None	400	77	N/A	N/A	
	A20-A1007-HX5X4BX	6, 7, 8	Crnk	121	Included	Power	None	415	79	N/A	N/A	
	A20-A1008-HX5X4BX	6, 7, 8	Crnk	139	Included	Power	None	360	69	N/A	N/A	
	A20-A1009-HX5X4BX	6, 7, 8	Crnk	149	Included	Power	None	340	65	N/A	N/A	
	A20-A1010-HX5X4BX	6, 7, 8	Crnk	160	Included	Power	None	310	59	N/A	N/A	
	A20-A1011-HX5X4BX	6, 7, 8	Crnk	184	Included	Power	None	275	52	N/A	N/A	
	A20-A1012-HX5X4BX	6, 7, 8	Crnk	198	Included	Power	None	265	50	N/A	N/A	
A20-A1015-HX5X4BX	6, 7, 8	Crnk	245	Included	Power	None	205	39	N/A	N/A		
CLUTCH SHIFT MULTI GEAR HEAVY DUTY	CS11-A1005-H1CB	6	Crnk	95	Included	Power	None	350	67	500	95	
	CS11-A1006-H1CB	6	Crnk	107	Included	Power	None	336	64	480	91	
	CS11-A1007-H1CB	6	Crnk	120	Included	Power	None	315	61	450	86	
	CS11-A1008-H1CB	6	Crnk	141	Included	Power	None	294	56	420	80	
	CS11-A1010-H1CB	6	Crnk	157	Included	Power	None	270	52	385	73	
	CS41-A1007-H1CB	4, 6, 8	Crnk	122	Included	Power	None	420	80	600	114	
	CS41-A1010-H1CB	4, 6, 8	Crnk	175	Included	Power	None	382	72	450	85	
CS41-A1012-H1CB	4, 6, 8	Crnk	200	Included	Power	None	343	65	395	75		
OPTIONAL REDUCTION GEARBOX												
ADAPTER TO CHANGE ROTATION			No Adapter Available				REFER TO ADAPTER GEAR ASSEMBLIES IN INDEX					

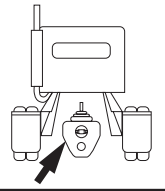



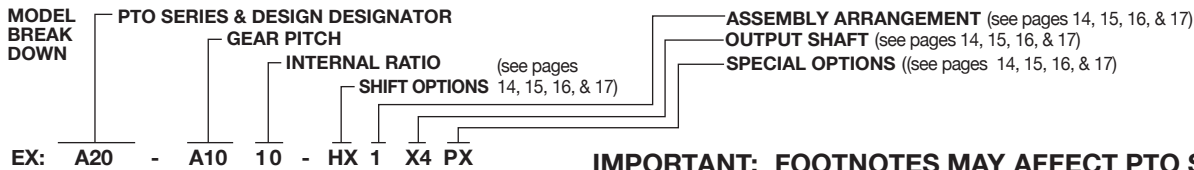
IMPORTANT: FOOTNOTES MAY AFFECT PTO SELECTION

FOOTNOTES:

- This opening is at the 1 o'clock position.
- PTO shown with assembly arrangement with output shaft low and to the rear. The shaft high assembly can be used in chassis with interference with the PTO shown. Direct mount pump applications may have clearance depending on the type of pump used. The shaft high assembly of the PTO may also allow direct mount pump installations. Due to the numerous chassis and engine combinations it is not possible to note all the information here.
- Standard option "X4" (A20 and A30) or "C" (CS11/41) 1410 companion flange outputs shown. Light-duty applications can use the "1X" or "B" output option which will reduce available PTO output torque to 210 lb.ft.
- The torque rating of this PTO is based on the Allison drive rating (for single PTO) of 790 lb.ft. intermittent Fire Pump rating and is shown on this page. Refer to the *Allison Tech Data Book* for more information. The CS41 PTO ratings are found on page 17 with continuous ratings for Fire Pump applications to be calculated as shown on page 3. Ratings above the transmission rating are not approved. Based on the PTO ratings shown on page 17, the CS41-A1007 is rated to 600 lb.ft. intermittent and 420 lb.ft. continuous when used on this transmission. The CS41-A1010 is rated to 450 lb.ft. continuous/382 lb.ft. intermittent and the CS41-A1012 is 395 lb.ft. continuous/343 lb.ft. intermittent.
- Connection to Allison "PTO enable" circuit must be made when PTO is engaged. Contact dealer for connection type and location.
- CS10, CS41, and A20 PTOs in fire pump applications are approved to 4,000 RPM PTO output shaft speed.
- A20 and A30 PTOs have single continuous/intermittent torque rating.
- PTO available with Muncie Start®; SX shift code on A20, 6 special feature on CS40.
- Direct mount pumps may interfere with transmission case depending on the pump.

CAUTION: MAXIMUM OUTPUT SHAFT SPEED NOT TO EXCEED 2,500 RPM.

ALLISON TRANSMISSION							LEFT SIDE ONLY (TOP SIDE TURN PAGE)					
 3000*** SERIES *** (EVS, RDS, SPS) (MHS, BUS, TRV Optional) MD-SERIES W/TOP OPENING MD-3060, MD3066, MD3560 Footnotes (1, 2, & 4)							ALLISON 10-BOLT OPENING					
							PTO DRIVE GEAR DATA:					
10-BOLT TYPE	PTO MODEL NUMBER	FOOT NOTES	SHAFT ROTATION	ENGINE %	STUD KIT	SHIFT TYPE	SHAFT EXTENSION	CONTINUOUS RATING @ 1,000 RPM of PTO		INTERMITTENT RATING @ 1,000 RPM of PTO		
								TORQUE	HP	TORQUE	HP	
CONST. DRIVE MULTI GEAR	CONTINUOUS AND INTERMITTENT RATINGS ARE SAME											
	A30-A1005-MX3X4PX	7	Crnk	92	Included	None	None	400	77	N/A	N/A	
	A30-A1006-MX3X4PX	7	Crnk	104	Included	None	None	400	77	N/A	N/A	
	A30-A1007-MX3X4PX	7	Crnk	121	Included	None	None	415	79	N/A	N/A	
	A30-A1008-MX3X4PX	7	Crnk	139	Included	None	None	360	69	N/A	N/A	
	A30-A1009-MX3X4PX	7	Crnk	149	Included	None	None	340	65	N/A	N/A	
	A30-A1010-MX3X4PX	7	Crnk	160	Included	None	None	310	59	N/A	N/A	
	A30-A1011-MX3X4PX	7	Crnk	184	Included	None	None	275	52	N/A	N/A	
	A30-A1012-MX3X4PX	7	Crnk	198	Included	None	None	265	50	N/A	N/A	
	A30-A1012-MX3X4PX	7	Crnk	245	Included	None	None	205	39	N/A	N/A	
CLUTCH SHIFT MULTI GEAR	CONTINUOUS AND INTERMITTENT RATINGS ARE SAME											
	A20-A1005-HX3X4PX	5, 6, 7, 8	Crnk	90	Included	Power	None	400	77	N/A	N/A	
	A20-A1006-HX3X4PX	5, 6, 7, 8	Crnk	104	Included	Power	None	400	77	N/A	N/A	
	A20-A1007-HX3X4PX	5, 6, 7, 8	Crnk	121	Included	Power	None	415	79	N/A	N/A	
	A20-A1008-HX3X4PX	5, 6, 7, 8	Crnk	139	Included	Power	None	360	69	N/A	N/A	
	A20-A1009-HX3X4PX	5, 6, 7, 8	Crnk	149	Included	Power	None	340	65	N/A	N/A	
	A20-A1010-HX3X4PX	5, 6, 7, 8	Crnk	160	Included	Power	None	310	59	N/A	N/A	
	A20-A1011-HX3X4PX	5, 6, 7, 8	Crnk	184	Included	Power	None	275	52	N/A	N/A	
	A20-A1012-HX3X4PX	5, 6, 7, 8	Crnk	198	Included	Power	None	265	50	N/A	N/A	
	A20-A1015-HX3X4PX	5, 6, 7, 8	Crnk	245	Included	Power	None	205	39	N/A	N/A	
CLUTCH SHIFT MULTI GEAR HEAVY DUTY	CS11-A1005-H3CX	5, 6	Crnk	95	Included	Power	None	350	67	500	95	
	CS11-A1006-H3CX	5, 6	Crnk	107	Included	Power	None	336	64	480	91	
	CS11-A1007-H3CX	5, 6	Crnk	120	Included	Power	None	315	61	450	86	
	CS11-A1008-H3CX	5, 6	Crnk	141	Included	Power	None	294	56	420	80	
	CS11-A1010-H3CX	5, 6	Crnk	157	Included	Power	None	270	52	385	73	
	CS41-A1007-H3CX	3, 5, 6, 8	Crnk	122	Included	Power	None	420	80	600	114	
	CS41-A1010-H3CX	3, 5, 6, 8	Crnk	175	Included	Power	None	382	72	450	85	
CS41-A1012-H3CX	3, 5, 6, 8	Crnk	200	Included	Power	None	343	65	395	75		
OPTIONAL REDUCTION GEARBOX												
ADAPTER TO CHANGE ROTATION			No Adapter Available				REFER TO ADAPTER GEAR ASSEMBLIES IN INDEX					



IMPORTANT: FOOTNOTES MAY AFFECT PTO SELECTION

- FOOTNOTES:**
- PTO shown with assembly arrangement with Output Shaft Low and to the rear. The Shaft High assembly can be used in chassis with interference with the PTO shown. A20/A30 use the 5 arrangement for Shaft High assembly. Direct mount pump applications may have clearance depending on the type of pump used. The Shaft High assembly of the PTO may also allow direct mount pump installations. Due to the numerous chassis and engine combinations, it is not possible to note all the information here.
 - Standard option "X4" (A20 and A30) or "C" (CS11/41) 1410 companion flange outputs shown. Light-duty applications can use the "1X" or "B" output option which will reduce available PTO output torque to 210 lb.ft.
 - The torque rating of this PTO is based on the Allison drive rating (for single PTO) of 790 lb.ft. intermittent Fire Pump rating and is shown on this page. Refer to the *Allison Tech Data Book* for more information. The CS41 PTO ratings are found on page 17 with continuous ratings for Fire pump applications to be calculated as shown on page 3. Ratings above the transmission rating are not approved. Based on the PTO ratings shown on page 17, the CS41-A1007 is rated to 600 lb.ft. intermittent and 420 lb.ft. continuous when used on this transmission. The CS41-A1010 is rated to 450 lb.ft. continuous/382 lb.ft. intermittent and the CS41-A1012 is 395 lb.ft. continuous/343 lb.ft. intermittent.
 - Connection to Allison "PTO enable" circuit must be made when PTO is engaged. Contact dealer for connection type and location.
 - Interference to end cover can be minimized by use of remote mount solenoid option. This is specified by ordering the CS11 or CS41 housing option in place of CS10 or CS40, or by using the HR shift code (A20 only).
 - A20, CS10, and CS41 PTOs in fire pump applications are approved to 4,000 RPM PTO output shaft speed.
 - A20 and A30 PTOs have single continuous/intermittent torque rating.
 - PTO available with Muncie Start®; SX shift code on A20, 6 special feature on CS40.