
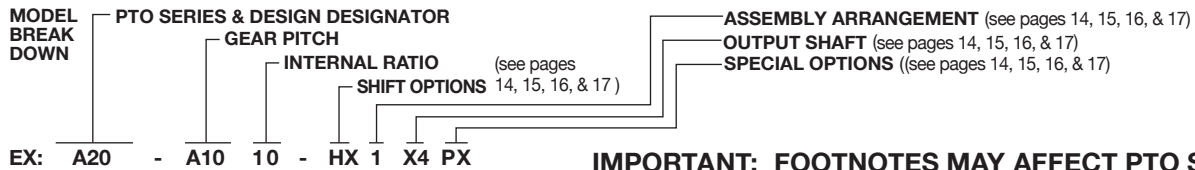
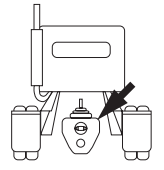


CAUTION: MAXIMUM OUTPUT SHAFT SPEED NOT TO EXCEED 2,500 RPM.

ALLISON TRANSMISSION							TOP SIDE ONLY (LEFT SIDE TURN PAGE)				
		4000*** SERIES *** (EVS, RDS, SPS) (MHS, BUS, TRV Optional) HD-4060P, HD-4560P, HD-4070P Footnotes (1, 2, 3, & 4)					ALLISON 10-BOLT OPENING				
							PTO DRIVE GEAR DATA: 97T 10.16P L.H. LOCATION: Front PLMF: 1.775 PLV: 2,648 FPM RPM: 1,000				
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-MX5X4BX	9, 11	Crnk	105	Included	None	See ALLI-6X	400	77	N/A	N/A
	A30-A1006-MX5X4BX	9, 11	Crnk	122	Included	None	See ALLI-6X	400	77	N/A	N/A
	A30-A1007-MX5X4BX	9, 11	Crnk	141	Included	None	See ALLI-6X	415	79	N/A	N/A
	A30-A1008-MX5X4BX	9, 11	Crnk	163	Included	None	See ALLI-6X	360	69	N/A	N/A
	A30-A1009-MX5X4BX	9, 11	Crnk	175	Included	None	See ALLI-6X	340	65	N/A	N/A
	A30-A1010-MX5X4BX	9, 11	Crnk	187	Included	None	See ALLI-6X	310	59	N/A	N/A
	A30-A1011-MX5X4BX	9, 11	Crnk	215	Included	None	See ALLI-6X	275	52	N/A	N/A
	A30-A1012-MX5X4BX	9, 11	Crnk	231	Included	None	See ALLI-6X	265	50	N/A	N/A
A30-A1015-MX5X4BX	9, 11	Crnk	287	Included	None	See ALLI-6X	205	39	N/A	N/A	
CLUTCH SHIFT MULTI GEAR	CONTINUOUS AND INTERMITTENT RATINGS ARE SAME										
	A20-A1005-HX5X4BX	8, 9, 10, 11	Crnk	105	Included	Power	See ALLI-6X	400	77	N/A	N/A
	A20-A1006-HX5X4BX	8, 9, 10, 11	Crnk	122	Included	Power	See ALLI-6X	400	77	N/A	N/A
	A20-A1007-HX5X4BX	8, 9, 10, 11	Crnk	141	Included	Power	See ALLI-6X	415	79	N/A	N/A
	A20-A1008-HX5X4BX	8, 9, 10, 11	Crnk	163	Included	Power	See ALLI-6X	360	69	N/A	N/A
	A20-A1009-HX5X4BX	8, 9, 10, 11	Crnk	175	Included	Power	See ALLI-6X	340	65	N/A	N/A
	A20-A1010-HX5X4BX	8, 9, 10, 11	Crnk	187	Included	Power	See ALLI-6X	310	59	N/A	N/A
	A20-A1011-HX5X4BX	8, 9, 10, 11	Crnk	215	Included	Power	See ALLI-6X	275	52	N/A	N/A
	A20-A1012-HX5X4BX	8, 9, 10, 11	Crnk	231	Included	Power	See ALLI-6X	265	50	N/A	N/A
A20-A1015-HX5X4BX	8, 9, 10, 11	Crnk	287	Included	Power	See ALLI-6X	205	39	N/A	N/A	
CLUTCH SHIFT MULTI GEAR HEAVY DUTY	CS10-A1005-H1CB	8	Crnk	111	Included	Power	None	350	67	500	95
	CS10-A1006-H1CB	8	Crnk	125	Included	Power	None	336	64	480	91
	CS10-A1007-H1CB	8	Crnk	139	Included	Power	None	315	61	450	86
	CS10-A1008-H1CB	5, 8	Crnk	164	Included	Power	None	292	56	417	79
	CS10-A1010-H1CB	5, 8	Crnk	184	Included	Power	None	261	50	372	71
	CS41-A1007-H1CB	5, 7, 8, 10	Crnk	144	Included	Power	None	429	82	479	91
	CS41-A1010-H1CB	5, 7, 8, 10	Crnk	206	Included	Power	None	332	63	332	63
ADAPTER TO CHANGE ROTATION			No Adapter Available				REFER TO ADAPTER GEAR ASSEMBLIES IN INDEX				




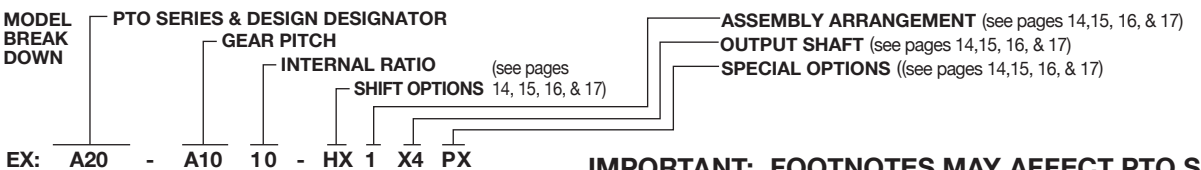
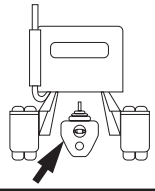
IMPORTANT: FOOTNOTES MAY AFFECT PTO SELECTION

FOOTNOTES:

- 1 This opening is at the 1 o'clock position and clearance of the vehicle cab varies with application.
- 2 Requires special lube kit included.
- 3 Internal clearance change in 2006. Transmissions built prior to 2006 are limited to PTO ratios "07" and below.
- 4 Standard output option "X4" (1410 companion flange) shown. Light-duty applications can use the "1X" option which will reduce available PTO output torque to 210 lb.ft.
- 5 The torque rating of this PTO is based on the Allison drive gear rating (for single PTO) of 685 lb.ft. continuous rating and is shown on this page. Refer to the *Allison Tech Data Book* for more information. The CS41 PTO ratings are found on pages 17 with continuous ratings for Fire Pump applications to be calculated as shown on page 3. Ratings above the transmission rating are not approved. The transmission rating means that PTO CS41-A1007 is rated to 479 lb.ft. intermittent and 429 lb.ft. continuous when used on this series of transmission. The CS41-A1010 is rated 332 lb.ft. intermittent and continuous.
- 6 Connection to Allison "PTO enable" circuit must be made when PTO is engaged. Contact dealer for connection type and location.
- 7 Check for CS41 housing interference at transmission flange prior to tightening mounting cap screws. Clearance can be made by using a flat file to clear housing to transmission
- 8 A20, CS10 and CS41 PTOs in Fire Pump applications are approved to 4,000 RPM PTO output shaft speed.
- 9 A20 and A30 have a single continuous/intermittent torque rating.
- 10 PTO available with Muncie Start®; SX shift code on A20, 6 special feature on CS40.
- 11 A20/A30 1 arrangement housing interferes with transmission. Use 5 arrangement housing.


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

ALLISON TRANSMISSION								LEFT SIDE ONLY (RIGHT SIDE TURN PAGE)			
		4000*** SERIES *** (EVS, RDS, SPS) (MHS, BUS, TRV Optional) HD-4060P, HD-4560P, HD-4070P Footnotes (1, 2, 3, & 5)						ALLISON 10-BOLT OPENING			
								PTO DRIVE GEAR DATA: 97T 10.16P L.H. LOCATION: Front PLMF: 1.775 PLV: 2,648 RPM: 1,000			
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	9	Crnk	105	Included	None	See ALLI-6X	400	77	N/A	N/A
	A30-A1006-MX3X4PX	9	Crnk	122	Included	None	See ALLI-6X	400	77	N/A	N/A
	A30-A1007-MX3X4PX	9	Crnk	141	Included	None	See ALLI-6X	415	79	N/A	N/A
	A30-A1008-MX3X4PX	9	Crnk	163	Included	None	See ALLI-6X	360	69	N/A	N/A
	A30-A1009-MX3X4PX	9	Crnk	175	Included	None	See ALLI-6X	340	65	N/A	N/A
	A30-A1010-MX3X4PX	9	Crnk	187	Included	None	See ALLI-6X	310	59	N/A	N/A
	A30-A1011-MX3X4PX	9	Crnk	215	Included	None	See ALLI-6X	275	52	N/A	N/A
	A30-A1012-MX3X4PX	9	Crnk	231	Included	None	See ALLI-6X	265	50	N/A	N/A
A30-A1015-MX3X4PX	9	Crnk	287	Included	None	See ALLI-6X	205	39	N/A	N/A	
CLUTCH SHIFT MULTI GEAR	CONTINUOUS AND INTERMITTENT RATINGS ARE SAME										
	A20-A1005-HX3X4PX	8, 9, 10	Crnk	105	Included	Power	See ALLI-6X	400	77	N/A	N/A
	A20-A1006-HX3X4PX	8, 9, 10	Crnk	122	Included	Power	See ALLI-6X	400	77	N/A	N/A
	A20-A1007-HX3X4PX	8, 9, 10	Crnk	141	Included	Power	See ALLI-6X	415	79	N/A	N/A
	A20-A1008-HX3X4PX	8, 9, 10	Crnk	163	Included	Power	See ALLI-6X	360	69	N/A	N/A
	A20-A1009-HX3X4PX	8, 9, 10	Crnk	175	Included	Power	See ALLI-6X	340	65	N/A	N/A
	A20-A1010-HX3X4PX	8, 9, 10	Crnk	187	Included	Power	See ALLI-6X	310	59	N/A	N/A
	A20-A1011-HX3X4PX	8, 9, 10	Crnk	215	Included	Power	See ALLI-6X	275	52	N/A	N/A
	A20-A1012-HX3X4PX	8, 9, 10	Crnk	231	Included	Power	See ALLI-6X	265	50	N/A	N/A
A20-A1015-HX3X4PX	8, 9, 10	Crnk	287	Included	Power	See ALLI-6X	205	39	N/A	N/A	
CLUTCH SHIFT MULTI GEAR HEAVY DUTY	CS10-A1005-H3CX	8	Crnk	111	Included	Power	See ALLI-6X	350	67	500	95
	CS10-A1006-H3CX	8	Crnk	125	Included	Power	See ALLI-6X	336	64	480	91
	CS10-A1007-H3CX	8	Crnk	139	Included	Power	See ALLI-6X	315	61	450	86
	CS10-A1008-H3CX	5, 8	Crnk	164	Included	Power	See ALLI-6X	292	56	417	79
	CS10-A1010-H3CX	5, 8	Crnk	184	Included	Power	See ALLI-6X	261	50	372	71
	CS41-A1007-H3CX	5, 7, 8, 10	Crnk	144	Included	Power	See ALLI-6X	429	82	479	91
	CS41-A1010-H3CX	5, 7, 8, 10	Crnk	206	Included	Power	See ALLI-6X	332	63	332	63
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 and A30 can use 5 arrangement housing; 1 arrangement has interference with transmission. 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 installs. Due to the numerous chassis and engine combinations it is not possible to note all the information here.
 - Requires special lube kit included.
 - Internal clearance change in 2006. Transmissions built prior to 2006 are limited to PTO ratios "07" and below.
 - Standard output option "X4" (1410 companion flange) shown. Light duty applications can use the "1X" option which will reduce available PTO output torque to 210 lb.ft.
 - The torque rating of this PTO is based on the Allison drive gear rating (for single PTO) of 685 lb.ft. continuous rating and is shown on this page. Refer to the *Allison Tech Data Book* for more information. The CS41 PTO ratings are found on pages 17 with continuous ratings for Fire Pump applications to be calculated as shown on page 3. Ratings above the transmission rating are not approved. The transmission rating means that PTO CS41-A1007 is rated to 479 lb.ft. intermittent and 429 lb.ft. continuous when used on this series of transmission. The CS41-A1010 is rated 332 lb.ft. intermittent and 332 lb.ft. continuous.
 - Connection to Allison "PTO enable" circuit must be made when PTO is engaged. Contact dealer for connection type and location.
 - Check for CS41 housing interference at transmission flange prior to tightening mounting cap screws. Clearance can be made by using a flat file to clear housing to transmission
 - A20, CS10 and CS41 PTOs in Fire Pump applications are approved to 4,000 RPM PTO output shaft speed.
 - A20 and A30 have a single continuous/intermittent torque rating.
 - PTO available with Muncie Start®; SX shift code on A20, 6 special feature on CS40.

ALLISON TRANSMISSION		
	4000*** SERIES MUNCIE PTO SHAFT EXTENSIONS	ALLISON 10-BOLT OPENING
	*** (EVS, RDS, SPS, OFS) (MHS, BUS, TRV OPTIONAL) HD-4060P, HD-4560P, HD-4070P Footnotes (2 & 4)	PTO DRIVE GEAR DATA: 97T 10.16P L.H. LOCATION: Front PLMF: 1.775 PLV: 2648 FPM RPM: 1,000

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


PTO SERIES	ALLISON 4000*** WITHOUT RETARDER OR COOLER	
	LEFT SIDE	TOP SIDE
A20 and A30	XSMC-A40XX-X3**XX A*0-A10**-**3CBPW	XSMC-A40XX-X5**XX A*0-A10**-**5CBPW
CS10	XS10-A40XX-X3**XX CS10-A10**-**H3VX	NOT AVAILABLE
CS41	49TA**** (TURN PAGE)	NOT AVAILABLE
	ALLISON 4000*** WITH RETARDER	
	LEFT SIDE	TOP SIDE
A20 and A30	XSMC-A40XX-X4**RX A*0-A10**-**5CBPW	NOT AVAILABLE
CS10	XS10-A40XX-X3**RX CS10-A10**-H3VX	NOT AVAILABLE
CS41	XS41-A40XX-X3**RX CS41-A10**-M3VX	NOT AVAILABLE
	ALLISON 4000*** WITH INTEGRAL COOLER	
	LEFT SIDE	TOP SIDE
A20 and A30	XSMC-A40XX-X4**CX A*0-A10**-**5CBPW	XSMC-A40XX-X5**XX A*0-A10**-**5CBPW
CS10	NOT AVAILABLE	NOT AVAILABLE
CS41	XS41-A40XX-X4**CX CS41-A10**-H1VX	NOT AVAILABLE

IMPORTANT: FOOTNOTES MAY AFFECT PTO SELECTION

FOOTNOTES:

- 1 49TA**** part numbers are choices for aluminum housing versions of shaft extension. These are shown on back of this page.
- 2 PTOs and shaft extensions for integral cooler applications must be mounted shaft high in order to clear cooler.
- 3 PTO and shaft extension sold separately.
- 4 Shaft extension choices for Allison 4700 Series transmission not shown. Only available options are XSMC-A47XX-X3**XX/ A*0-A10****3CBPW or for left side, or XSMC-A47XX-X5**XX/A*0-A10**-**5CBPW for top opening without retarder or cooler. SAE outputs only. DIN option not available.
- 5 Table shows shaft extension part number on top, with corresponding PTO listed below where applicable. Some combinations are not available, and are listed as such.
- 6 See page ALLI-06 for PTO application details.

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

ALLISON TRANSMISSION			
	4000*** SERIES MUNCIE PTO SHAFT EXTENSIONS *** (EVS, RDS, SPS, OFS) (MHS, BUS, TRV OPTIONAL) HD-4060P, HD-4560P, HD-4070P Footnotes (2 & 4)	ALLISON 10-BOLT OPENING	
		PTO DRIVE GEAR DATA: 97T 10.16P L.H. LOCATION: Front PLMF: 1.775 PLV: 2648 FPM RPM: 1,000	
PTO SERIES	OUTPUT	ALLISON 4000*** WITHOUT RETARDER OR COOLER	
		LEFT SIDE	TOP SIDE
CS41	DIN-5462	49TA5445A CS41-A10**-H3VX	NOT AVAILABLE
	SAE B-C	49TA5446A CS41-A10**-H3VX	NOT AVAILABLE
	SAE C	49TA5447A CS41-A10**-H3VX	NOT AVAILABLE

IMPORTANT: FOOTNOTES MAY AFFECT PTO SELECTION

FOOTNOTES:

- 1 PTO and shaft extension sold separately.
- 2 Shaft extension choices for Allison 4700 Series transmission not shown. Only available options are XSMC-A47XX-X3**XX/ A*0-A10***3CBPW for left side or XSMC-A47XX-X5**XX/ A*0-A10**-**5CBPW for top opening without retarder or cooler. SAE outputs only. DIN option not available.
- 3 Table shows shaft extension part number on top, with corresponding PTO listed below where applicable. Some combinations are not available, and are listed as such.
- 4 For transmissions with retarder or integral cooler, see front of this page.
- 5 See Page ALLI-06 for PTO application details.