
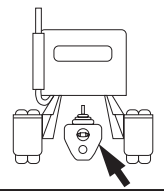
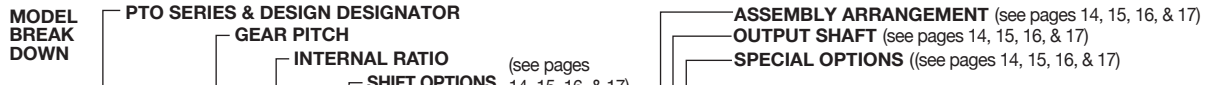


CAUTION: MAXIMUM OUTPUT SHAFT SPEED NOT TO EXCEED 2,500 RPM.

ALLISON TRANSMISSION								RIGHT SIDE ONLY (LEFT SIDE TURN PAGE)			
		<b>3000*** SERIES</b> <b>*** (EVS, RDS, SPS) (MHS, BUS, TRV Optional)</b> <b>MD-3000 Series with PTO Opening</b> Footnotes (1, 2, 4, 5, & 6)						<b>ALLISON 10-BOLT OPENING</b>			
								<b>PTO DRIVE GEAR DATA:</b> 68T 10.16P LH LOCATION: FRONT    PLMF: 1.775 PLV: 1,856 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-MX1X4PX	10	Crnk	74	Included	None	See ALLI-5X	400	77	N/A	N/A
	A30-A1006-MX1X4PX	10	Crnk	85	Included	None	See ALLI-5X	400	77	N/A	N/A
	A30-A1007-MX1X4PX	10	Crnk	99	Included	None	See ALLI-5X	415	79	N/A	N/A
	A30-A1008-MX1X4PX	10	Crnk	114	Included	None	See ALLI-5X	360	69	N/A	N/A
	A30-A1009-MX1X4PX	10	Crnk	122	Included	None	See ALLI-5X	340	65	N/A	N/A
	A30-A1010-MX1X4PX	10	Crnk	131	Included	None	See ALLI-5X	310	59	N/A	N/A
	A30-A1011-MX1X4PX	10	Crnk	151	Included	None	See ALLI-5X	275	52	N/A	N/A
	A30-A1012-MX1X4PX	10	Crnk	162	Included	None	See ALLI-5X	265	50	N/A	N/A
A30-A1015-MX1X4PX	10	Crnk	201	Included	None	See ALLI-5X	205	39	N/A	N/A	
CLUTCH SHIFT MULTI GEAR								CONTINUOUS AND INTERMITTENT RATINGS ARE SAME			
	A20-A1005-HX1X4PX	7, 9, 10, 11	Crnk	74	Included	Power	See ALLI-5X	400	77	N/A	N/A
	A20-A1006-HX1X4PX	7, 9, 10, 11	Crnk	85	Included	Power	See ALLI-5X	400	77	N/A	N/A
	A20-A1007-HX1X4PX	7, 9, 10, 11	Crnk	99	Included	Power	See ALLI-5X	415	79	N/A	N/A
	A20-A1008-HX1X4PX	7, 9, 10, 11	Crnk	114	Included	Power	See ALLI-5X	360	69	N/A	N/A
	A20-A1009-HX1X4PX	7, 9, 10, 11	Crnk	122	Included	Power	See ALLI-5X	340	65	N/A	N/A
	A20-A1010-HX1X4PX	7, 9, 10, 11	Crnk	131	Included	Power	See ALLI-5X	310	59	N/A	N/A
	A20-A1011-HX1X4PX	7, 9, 10, 11	Crnk	151	Included	Power	See ALLI-5X	275	52	N/A	N/A
	A20-A1012-HX1X4PX	7, 9, 10, 11	Crnk	162	Included	Power	See ALLI-5X	265	50	N/A	N/A
A20-A1015-HX1X4PX	7, 9, 10, 11	Crnk	201	Included	Power	See ALLI-5X	205	39	N/A	N/A	
CLUTCH SHIFT MULTI GEAR HEAVY DUTY	CS10-A1005-H1CX	7, 9	Crnk	78	Included	Power	See ALLI-5X	350	67	500	95
	CS10-A1006-H1CX	7, 9	Crnk	88	Included	Power	See ALLI-5X	336	64	480	91
	CS10-A1007-H1CX	7, 9	Crnk	98	Included	Power	See ALLI-5X	315	61	450	86
	CS10-A1008-H1CX	7, 9	Crnk	116	Included	Power	See ALLI-5X	294	56	420	80
	CS10-A1010-H1CX	7, 9	Crnk	129	Included	Power	See ALLI-5X	270	52	385	73
	CS41-A1007-H1CX	3, 7, 9, 11	Crnk	100	Included	Power	None	420	80	484	92
	CS41-A1010-H1CX	3, 7, 9, 11	Crnk	144	Included	Power	None	336	64	336	64
CS41-A1012-H1CX	3, 7, 9, 11	Crnk	163	Included	Power	None	298	57	298	57	
OPTIONAL REDUCTION GEARBOX	GB1B-205-125A	8	Opp	See Footnote 8				140	26	200	37



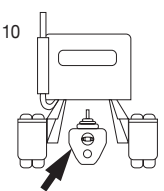

ADAPTER TO CHANGE ROTATION: No Adapter Available. REFER TO ADAPTER GEAR ASSEMBLIES IN INDEX.



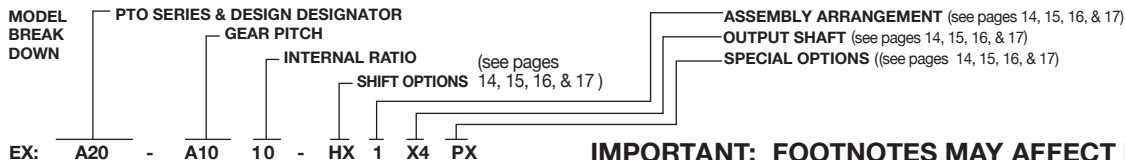
EX: A20 - A10 10 - HX 1 X4 PX      **IMPORTANT: FOOTNOTES MAY AFFECT PTO SELECTION**

- 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. 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/A30) or "C" (CS10/41) 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 485 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 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 rating shown on page 17, the CS41-A1007 is rated to 485 lb.ft. intermittent and 420 lb.ft. continuous when used on this transmission. The CS41-A1010 is rated to 336 lb.ft. continuous and intermittent and the CS41-A1012 is 298 lb.ft. continuous and intermittent.
  - Connection to Allison "PTO enable" circuit must be made when PTO is engaged. Contact dealer for connection type and location.
  - INTERNATIONAL® Trucks has a shift option code 60ABE which provides a PTO cab switch and connections for the Clutch Shift PTO.
  - The 3700 Series transmission PTOs fit the left side opening only. Use application page ALLI-11.
  - 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).
  - Optional Speed Reduction Gearbox. Reduces PTO Speeds shown by 50%. PTO shaft (1 1/4" Round, 5/16" Key) rotation changes to Opposite of Engine. PTO output "HX1BBPW" required.
  - CS10, CS41 and A20 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.

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


ALLISON TRANSMISSION							LEFT SIDE ONLY (RIGHT SIDE TURN PAGE)				
 <b>3000*** SERIES</b> *** (EVS, RDS, SPS) (MHS, BUS, TRV Optional) <b>MD3000 Series with PTO Opening</b> Footnotes (1, 2, 4, 5, & 6)							ALLISON 10-BOLT OPENING				
							PTO DRIVE GEAR DATA:				
							68T 10.16P L.H.				
							LOCATION: Front		PLMF: 1.775		
							PLV: 1,856 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-MX3X4PX	10	Crnk	74	Included	None	See ALLI-5X	400	77	N/A	N/A
	A30-A1006-MX3X4PX	10	Crnk	85	Included	None	See ALLI-5X	400	77	N/A	N/A
	A30-A1007-MX3X4PX	10	Crnk	99	Included	None	See ALLI-5X	415	79	N/A	N/A
	A30-A1008-MX3X4PX	10	Crnk	114	Included	None	See ALLI-5X	360	69	N/A	N/A
	A30-A1009-MX3X4PX	10	Crnk	122	Included	None	See ALLI-5X	340	65	N/A	N/A
	A30-A1010-MX3X4PX	10	Crnk	131	Included	None	See ALLI-5X	310	59	N/A	N/A
	A30-A1011-MX3X4PX	10	Crnk	151	Included	None	See ALLI-5X	275	52	N/A	N/A
	A30-A1012-MX3X4PX	10	Crnk	162	Included	None	See ALLI-5X	265	50	N/A	N/A
A30-A1015-MX3X4PX	10	Crnk	201	Included	None	See ALLI-5X	205	39	N/A	N/A	
CLUTCH SHIFT MULTI GEAR	CONTINUOUS AND INTERMITTENT RATINGS ARE SAME										
	A20-A1005-HX3X4PX	7, 9, 10, 11	Crnk	74	Included	Power	See ALLI-5X	400	77	N/A	N/A
	A20-A1006-HX3X4PX	7, 9, 10, 11	Crnk	85	Included	Power	See ALLI-5X	400	77	N/A	N/A
	A20-A1007-HX3X4PX	7, 9, 10, 11	Crnk	99	Included	Power	See ALLI-5X	415	79	N/A	N/A
	A20-A1008-HX3X4PX	7, 9, 10, 11	Crnk	114	Included	Power	See ALLI-5X	360	69	N/A	N/A
	A20-A1009-HX3X4PX	7, 9, 10, 11	Crnk	122	Included	Power	See ALLI-5X	340	65	N/A	N/A
	A20-A1010-HX3X4PX	7, 9, 10, 11	Crnk	131	Included	Power	See ALLI-5X	310	59	N/A	N/A
	A20-A1011-HX3X4PX	7, 9, 10, 11	Crnk	151	Included	Power	See ALLI-5X	275	52	N/A	N/A
	A20-A1012-HX3X4PX	7, 9, 10, 11	Crnk	162	Included	Power	See ALLI-5X	265	50	N/A	N/A
A20-A1015-HX3X4PX	7, 9, 10, 11	Crnk	201	Included	Power	See ALLI-5X	205	39	N/A	N/A	
CLUTCH SHIFT MULTI GEAR HEAVY DUTY	CS10-A1005-H3CX	7, 9	Crnk	78	Included	Power	See ALLI-5X	350	67	500	95
	CS10-A1006-H3CX	7, 9	Crnk	88	Included	Power	See ALLI-5X	336	64	480	91
	CS10-A1007-H3CX	7, 9	Crnk	98	Included	Power	See ALLI-5X	315	61	450	86
	CS10-A1008-H3CX	7, 9	Crnk	116	Included	Power	See ALLI-5X	294	56	420	80
	CS10-A1010-H3CX	7, 9	Crnk	129	Included	Power	See ALLI-5X	270	52	385	73
	CS41-A1007-H3CX	3, 7, 9, 11	Crnk	100	Included	Power	See ALLI-5X	420	80	484	92
CS41-A1010-H3CX	3, 7, 9, 11	Crnk	144	Included	Power	See ALLI-5X	336	64	336	64	
CS41-A1012-H3CX	3, 7, 9, 11	Crnk	163	Included	Power	See ALLI-5X	298	57	298	57	
OPTIONAL REDUCTION GEARBOX	GB1B-205-125A	8	Opp	See Footnote 8				140	26	200	37

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. 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/A30) or "C" (CS10/41) 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 485 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 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 rating shown on page 17, the CS41-A1007 is rated to 485 lb.ft. intermittent and 420 lb.ft. continuous when used on this transmission. The CS41-A1010 is rated to 336 lb.ft. continuous and intermittent and the CS41-A1012 is 298 lb.ft. continuous and intermittent.
  - Connection to Allison "PTO enable" circuit must be made when PTO is engaged. Contact dealer for connection type and location.
  - INTERNATIONAL® Trucks has a shift option code 60ABE which provides a PTO cab switch and connections for the Clutch Shift PTO.
  - The 3700 Series transmission, PTOs fit the left side opening only. Use application page ALLI-11.
  - 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).
  - Optional Speed Reduction Gearbox. Reduces PTO Speeds shown by 50%. PTO shaft (1 1/4" Round, 5/16" Key) rotation changes to Opposite of Engine. PTO output "HX1BBPW" required.
  - CS10, CS41 and A20 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.

<b>ALLISON TRANSMISSION</b>		
	<b>3000*** SERIES MUNCIE PTO SHAFT EXTENSIONS</b>	<b>ALLISON 10-BOLT OPENING</b>
	*** (EVS, RDS, SPS) (MHS, BUS, TRV OPTIONAL) MD-3050P, MD-3550P, MD-3060P, MD-3066P, MD-3560P, MD-3566P, MD-3070PT <b>Footnotes (2 &amp; 4)</b>	<b>PTO DRIVE GEAR DATA:</b> 68T 10.16P L.H. <b>LOCATION:</b> Front <b>PLMF:</b> 1.775 <b>PLV:</b> 1856 FPM <b>RPM:</b> 1,000


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

PTO SERIES	<b>ALLISON 3000*** WITHOUT RETARDER OR COOLER</b>	
	LEFT SIDE	RIGHT SIDE
A20 and A30	XSMC-A30XX-X3**XX A*0-A10**-**3CBPW	XSMC-A30XX-X1**XX A*0-A10**-**1CBPW
CS10	49TA***** (TURN PAGE)	NOT AVAILABLE
CS41	NOT AVAILABLE	NOT AVAILABLE
	<b>ALLISON 3000*** WITH RETARDER</b>	
	LEFT SIDE	RIGHT SIDE
A20 and A30	XSMC-A30XX-X3**RX A*0-A10**-**3CBPW	XSMC-A30XX-X1**RX A*0-A1-**-**1CBPW
CS10	XS10-A30XX-X3**RX CS10-A10**-H3VX	NOT AVAILABLE
CS41	XS41-A30XX-X3**RX CS41-A10**-M3VX	NOT AVAILABLE
	<b>ALLISON 3000*** WITH INTEGRAL COOLER</b>	
	LEFT SIDE	RIGHT SIDE
A20 and A30	XSMC-A30XX-X4**CX A*0-A10**-**5CBPW	XSMC-A30XX-X2**CX A*0-A10**-**5CBPW
CS10	NOT AVAILABLE	NOT AVAILABLE
CS41	NOT AVAILABLE	NOT AVAILABLE

**IMPORTANT: FOOTNOTES MAY AFFECT PTO SELECTION**

<p><b>FOOTNOTES:</b></p> <ol style="list-style-type: none"> <li>1 49TA***** part numbers are choices for aluminum housing versions of shaft extension. These are shown on back of this page.</li> <li>2 PTOs and shaft extensions for integral cooler applications must be mounted shaft high in order to clear cooler.</li> <li>3 PTO and shaft extension sold separately.</li> <li>4 No shaft extension option for Allison 3700 Series or Allison 3000 Series with top opening.</li> <li>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.</li> <li>6 See Page ALLI-05 for PTO application details</li> </ol>
--

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

<b>ALLISON TRANSMISSION</b>			
	<b>3000*** SERIES MUNCIE PTO SHAFT EXTENSIONS</b>	<b>ALLISON 10-BOLT OPENING</b>	
	*** (EVS, RDS, SPS) (MHS, BUS, TRV OPTIONAL) MD-3050P, MD-3550P, MD-3060P, MD-3066P, MD-3560P, MD-3566P, MD-3070PT <b>Footnotes (2 &amp; 4)</b>	<b>PTO DRIVE GEAR DATA:</b> 68T 10.16P L.H. <b>LOCATION:</b> Front <b>PLMF:</b> 1.775 <b>PLV:</b> 1856 FPM <b>RPM:</b> 1,000	
<b>PTO SERIES</b>	<b>OUTPUT</b>	<b>ALLISON 3000*** WITHOUT RETARDER OR COOLER</b>	
		<b>LEFT SIDE</b>	<b>RIGHT SIDE</b>
CS10	SAE BB	49TA5448A CS10-A10**-H3VX	NOT AVAILABLE
	SAE C	49TA5449A CS10-A10**-H3VX	NOT AVAILABLE

**IMPORTANT: FOOTNOTES MAY AFFECT PTO SELECTION**

**FOOTNOTES:**

- 1 PTO and shaft extension sold separately.
- 2 No shaft extension option for Allison 3700 Series or Allison 3000 Series with top opening.
- 3 Table shows shaft extension part number on top, with corresponding PTO listed below. Some combinations are not available, and are listed as such.  
For transmissions with retarder or integral cooler, see front of this page.
- 5 See Page ALLI-05 for PTO application details.