

New 892/899 Series Allison 4700/4800 Transmissions

The 892/899 Series Power Take-Off (P.T.O.) is a new product offering in the 890 Family of Power Take-Offs for Allison 4700/4800 series of transmissions.

The unique design of the 892/899 allows it to mount to the 4700/4800 with an extended housing. The 892/899 has been specifically designed for the heavy duty Allison Transmission. It mounts like a standard side mount P.T.O. with an additional bracket at the rear of the transmission. It places the output of the P.T.O. beyond the rear of the transmission where there is extra space.

The 892 Series is a 10-Bolt Power Shift unit and the 899 Series is the Constant Mesh (non-shiftable) 10-Bolt design of the 892 Series.

Product Features and Benefits:

- **Moves the Pump mounting flange to the rear of the transmission** – Allows larger pumps to be mounted
- **Requires Less Space than current P.T.O.s** - Will help clear frame rails
- **Torque Ratings up to 591 Lbs.ft.** – Allows the use of higher flow and pressure pumps. *P.T.O. torque ratings as stated are for both Intermittent and Continuous duty cycles*
- **Can be installed in two sections** - One lighter P.T.O. Housing and then the shaft section for ease of installation
- **Single Piece Shaft** –Eliminates the spline at the housing end of the unit
- **Wet Spline Outputs** – Extends shaft Life. Eliminates the need to disassemble unit to frequently grease

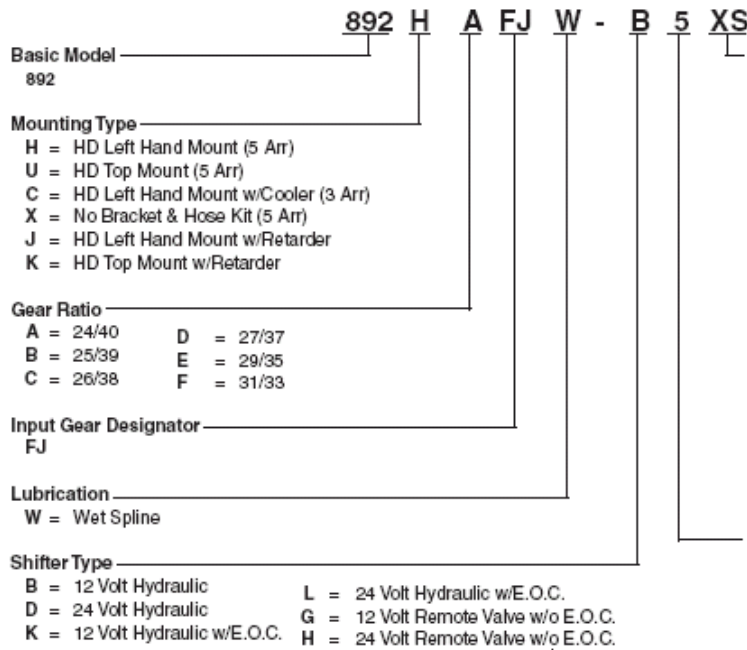
Some of the markets served by the 892/897 Series are the Refuse, Fire and Rescue, Sewer Sanitation, Aerial, Oil and Mining.

On the back of this bulletin is information for 892 Model Codes (P.T.O. Options) this also applies to the 899 Series. The units come in two assembly arrangements “3” & “5”. Attached is a page that includes application information. Please make sure to include this in your application book.

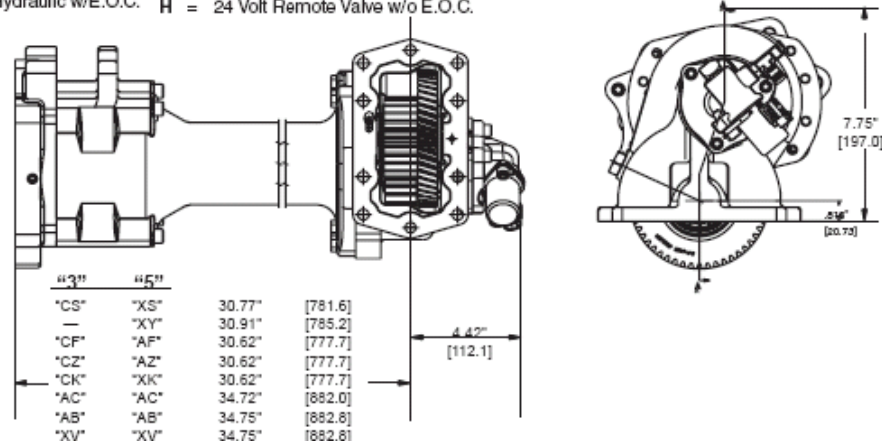
We are redoing the complete Allison application section to update all the options for the 890 Family on all MD & HD transmissions. This will expand our normal ALL-13 & 14 pages to include new pages for transmissions with integral cooler, retarder and transmission case lengths. These pages will include 890/892 & 897/899 units that we know will fit the transmission as “standard” but as with most applications you may have a unique requirement or application outside of the standard options. In this case please contact Chelsea Customer Service for assistance. All the updates will be coming in a bulletin mailing in Mid March.

OVER

Model Number Designator



- Output Designation (5 Assembly Arrangement)**
 XS = Class "C" 2 & 4-Bolt Pump Mount
 XK = Class "B" 2 & 4-Bolt Pump Mount
 AF = Class "B-B" 2 & 4-Bolt Pump Mount
 XY = DIN 5462 Pump Mount
 AZ = Class "B" 2 & 4-Bolt Pump Flange, Class "C" Shaft
 XV = 1-1/2" - 10 Spline Shaft w/1410 Flange
 AB = 1-1/2" - 10 Spline Shaft w/DIN 120 Flange
 AC = 1-1/2" - 10 Spline Shaft w/DIN 100 Flange
- Output Designation (3 Assembly Arrangement)**
 CS = Class "C" 4-Bolt Pump Mount
 CK = Class "B" 2 & 4-Bolt Pump Mount
 CF = Class "B-B" 2 & 4-Bolt Pump Mount
 CZ = Class "B" 2 & 4-Bolt Pump Flange, Class "C" Shaft
 XV = 1-1/2" - 10 Spline Shaft with 1410 Flange
 AB = 1-1/2" - 10 Spline Shaft with DIN 120 Flange
 AC = 1-1/2" - 10 Spline Shaft with DIN 100 Flange
- Assembly Arrangement**
 5 Gear Forward Bulge Down Left Side Mount
 3 Gear Forward Bulge Up Left Side Mount



P.T.O. Ratio	892/899*A	892/899*B	892/899*C	892/899*D	892/899*E	892/899*F
Continuous Torque Rating (Lbs.ft)	591	552	515	482	425	376
Continuous Torque Rating (N.m)	801	748	698	653	576	510

NOTE: Stated Torque Ratings are for both Continuous & Intermittent Duty Cycles

If you have questions about this bulletin or other technical questions, contact us at:
 US: Chelsea Customer/Technical Services at **1-888-PH4-TRUK** (1-888-744-8785) or Fax 662.895.1069
 Canada: Parker Hannifin Canada 905-693-3020

Walt Harris
 Walt Harris
 Product Sales Manager
 Chelsea Products

892 Application sheet (4700/4800 Allison)

ALL-19

HD 4700-4800 LH and RH (top) openings Std max torque 685 ft lbs

Left Side					Right Side				
PTO Model	Inter Torq	Dir. Rot.	Engine % Hi	Stud Kit	PTO Model	Inter Torq	Dir. Rot.	Engine % Hi	Stud Kit
ONE SPEED - POWERSHIFT (HYD) EXTENDED SHAFT									
892HAFJW-*5 (1)	591	Eng	116	Furnished	892UAFJW-*5 (1)	591	Eng	116	Furnished
892HBFJW-*5 (2)	552	Eng	124	Furnished	892UBFJW-*5 (2)	552	Eng	124	Furnished
892HCFJW-*5 (3)	515	Eng	133	Furnished	892UCFJW-*5 (3)	515	Eng	133	Furnished
892HDFJW-*5 (4)	482	Eng	142	Furnished	892UDFJW-*5 (4)	482	Eng	142	Furnished
892HEFJW-*5 (5)	425	Eng	161	Furnished	892UEFJW-*5 (5)	425	Eng	161	Furnished
892HFFJW-*5 (6)	376	Eng	182	Furnished	892UFFJW-*5 (6)	376	Eng	182	Furnished

ALL-19C

HD 4700-4800 **With Cooler** LH opening Std max torque 685 ft lbs

Left Side					Right Side				
PTO Model	Inter Torq	Dir. Rot.	Engine % Hi	Stud Kit	PTO Model	Inter Torq	Dir. Rot.	Engine % Hi	Stud Kit
ONE SPEED - POWERSHIFT (HYD) EXTENDED SHAFT									
892CAFJW-*3 (1)	591	Eng	116	Furnished	892UAFJW-*5 (1)	591	Eng	116	Furnished
892CBFJW-*3 (2)	552	Eng	124	Furnished	892UBFJW-*5 (2)	552	Eng	124	Furnished
892CCFJW-*3 (3)	515	Eng	133	Furnished	892UCFJW-*5 (3)	515	Eng	133	Furnished
892CDFJW-*3 (4)	482	Eng	142	Furnished	892UDFJW-*5 (4)	482	Eng	142	Furnished
892CEFJW-*3 (3)	425	Eng	161	Furnished	892UEFJW-*5 (5)	425	Eng	161	Furnished
892CFFJW-*3 (6)	376	Eng	182	Furnished	892UFFJW-*5 (6)	376	Eng	182	Furnished

ALL-19R

HD 4700-4800 **With Retarder** LH and RH (top) openings Std max torque 685 ft lbs

Left Side					Right Side				
PTO Model	Inter Torq	Dir. Rot.	Engine % Hi	Stud Kit	PTO Model	Inter Torq	Dir. Rot.	Engine % Hi	Stud Kit
ONE SPEED - POWERSHIFT (HYD) EXTENDED SHAFT									
892JAFJW-*3 (1)	591	Eng	116	Furnished	892KAFJW-*5 (1)	591	Eng	116	Furnished
892JBFJW-*3 (2)	552	Eng	124	Furnished	892KBFJW-*5 (2)	552	Eng	124	Furnished
892JCFJW-*3 (3)	515	Eng	133	Furnished	892KCFJW-*5 (3)	515	Eng	133	Furnished
892JDFJW-*3 (4)	482	Eng	142	Furnished	892KDFJW-*5 (4)	482	Eng	142	Furnished
892JEFJW-*3 (3)	425	Eng	161	Furnished	892KEFJW-*5 (5)	425	Eng	161	Furnished
892JFFJW-*3 (6)	376	Eng	182	Furnished	892KFFJW-*5 (6)	376	Eng	182	Furnished

Note: FJ input gear Part number 5-P-1428

899 Application sheet (4700/4800 Allison)

ALL-19

HD 4700-4800 LH and RH (top) openings Std max torque 685 ft lbs

Left Side					Right Side				
PTO Model	Inter Torq	Dir. Rot.	Engine % Hi	Stud Kit	PTO Model	Inter Torq	Dir. Rot.	Engine % Hi	Stud Kit
ONE SPEED - CONSTANT MESH EXTENDED SHAFT									
899HAFJW-*5 (1)	591	Eng	116	Furnished	899UAFJW-*5 (1)	591	Eng	116	Furnished
899HBFJW-*5 (2)	552	Eng	124	Furnished	899UBFJW-*5 (2)	552	Eng	124	Furnished
899HCFJW-*5 (3)	515	Eng	133	Furnished	899UCFJW-*5 (3)	515	Eng	133	Furnished
899HDFJW-*5 (4)	482	Eng	142	Furnished	899UDFJW-*5 (4)	482	Eng	142	Furnished
899HEFJW-*5 (5)	425	Eng	161	Furnished	899UEFJW-*5 (5)	425	Eng	161	Furnished
899HFFJW-*5 (6)	376	Eng	182	Furnished	899UFFJW-*5 (6)	376	Eng	182	Furnished

ALL-19C

HD 4700-4800 **With Cooler** LH opening Std max torque 685 ft lbs

Left Side					Right Side				
PTO Model	Inter Torq	Dir. Rot.	Engine % Hi	Stud Kit	PTO Model	Inter Torq	Dir. Rot.	Engine % Hi	Stud Kit
ONE SPEED - CONSTANT MESH EXTENDED SHAFT									
899CAFJW-*3 (1)	591	Eng	116	Furnished	899UAFJW-*5 (1)	591	Eng	116	Furnished
899CBFJW-*3 (2)	552	Eng	124	Furnished	899UBFJW-*5 (2)	552	Eng	124	Furnished
899CCFJW-*3 (3)	515	Eng	133	Furnished	899UCFJW-*5 (3)	515	Eng	133	Furnished
899CDFJW-*3 (4)	482	Eng	142	Furnished	899UDFJW-*5 (4)	482	Eng	142	Furnished
899CEFJW-*3 (3)	425	Eng	161	Furnished	899UEFJW-*5 (5)	425	Eng	161	Furnished
899CFFJW-*3 (6)	376	Eng	182	Furnished	899UFFJW-*5 (6)	376	Eng	182	Furnished

ALL-19R

HD 4700-4800 **With Retarder** LH and RH (top) openings Std max torque 685 ft lbs

Left Side					Right Side				
PTO Model	Inter Torq	Dir. Rot.	Engine % Hi	Stud Kit	PTO Model	Inter Torq	Dir. Rot.	Engine % Hi	Stud Kit
ONE SPEED - CONSTANT MESH EXTENDED SHAFT									
899JAFJW-*3 (1)	591	Eng	116	Furnished	899KAFJW-*5 (1)	591	Eng	116	Furnished
899JBFJW-*3 (2)	552	Eng	124	Furnished	899KBFJW-*5 (2)	552	Eng	124	Furnished
899JCFJW-*3 (3)	515	Eng	133	Furnished	899KCFJW-*5 (3)	515	Eng	133	Furnished
899JDFJW-*3 (4)	482	Eng	142	Furnished	899KDFJW-*5 (4)	482	Eng	142	Furnished
899JEFJW-*3 (3)	425	Eng	161	Furnished	899KEFJW-*5 (5)	425	Eng	161	Furnished
899JFFJW-*3 (6)	376	Eng	182	Furnished	899KFFJW-*5 (6)	376	Eng	182	Furnished

Note: FJ input gear Part number 5-P-1428