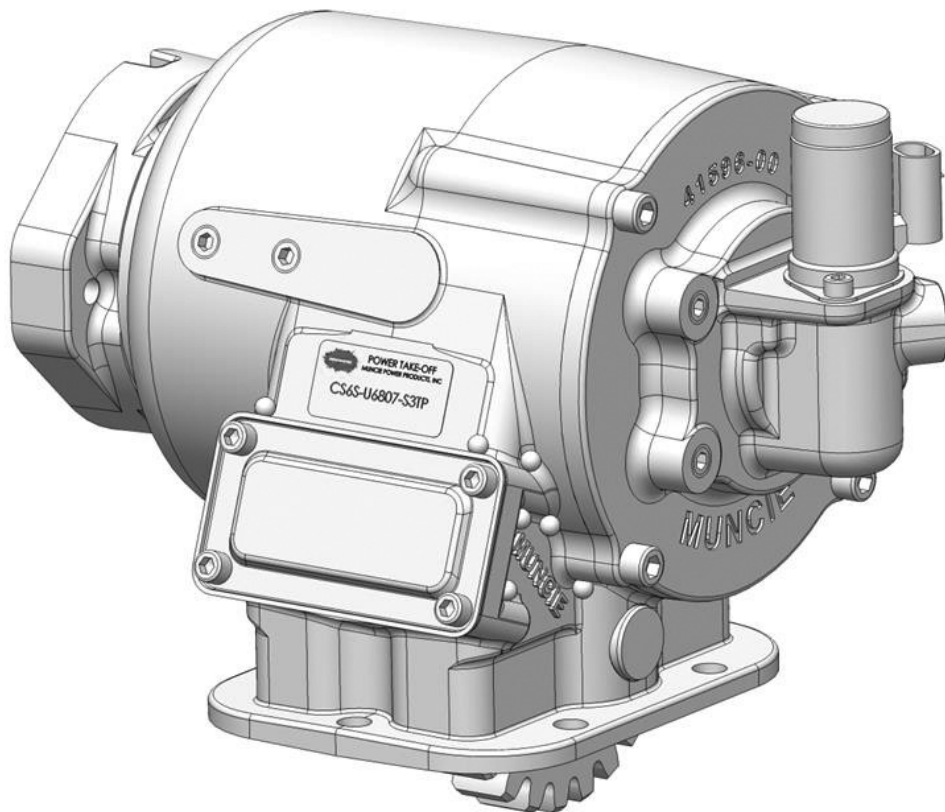




Muncie®
Power
Products

CS6, CS8 CB6 & CB8 SERIES CLUTCH SHIFT PTO

PARTS LIST AND SERVICE MANUAL



CS/CB Model Number Construction

CS 6S - U68 07 - S 3 T P

PTO Types

CS — Clutch Shift (Std. Drag Brake)
CB — Clutch Brake (Opt. Shaft Brake)

Mountings

6B — SAE 6-Bolt Std. Mtg. Metric
6C — SAE 6-Bolt Non-Std. Metric
6D — SAE 6-Bolt Non-Std. Mtg.
6F — SAE 6-Bolt Eaton Mtg.
6G — SAE 6-Bolt Low Profile Rear
6K — SAE 6-Bolt Non-Std. Mtg. — Less Stud Kit
6L — SAE 6-Bolt Std. Mtg. — Less Stud Kit
6N — SAE 6-Bolt Non-Std. Mtg. — Deep
6S — SAE 6-Bolt Std. Mtg.
8B — SAE 8-Bolt Std. Mtg. — Metric Studs
8C — SAE 8-Bolt Non-Std. Mtg. — Metric Studs
8D — SAE 8-Bolt Non-Std. Mtg.
8G — SAE 8-Bolt Clearance Cover/No Drag Brake
8K — SAE 8-Bolt Non-Std. Mtg. — Less Stud Kit
8L — SAE 8-Bolt Std. Mtg. — Less Stud Kit
8M — SAE 8-Bolt Mtg. Deep
8S — SAE 8-Bolt Std. Mtg.
8S — SAE 8-Bolt Non-Std. Mtg. — Metric

Transmission Input Gear Options

I84 — Aisin	8.46P 20° PA Spur
A67 — Allison	6.86P 20° PA Spur
C61 — Clark/Fuller	6.1P 25° PA 32° 16'48" LH
C70 — Clark/Fuller	7P 25° PA 30° 46'48" LH
F10 — Fuller	10.1P 20° Spur
F11 — Fuller	10.1P 21.5° PA Spur
F61 — Fuller	6.1P 20.5° PA 29° LH
F63 — Fuller	6.35P 20° PA 22° LH
F66 — Fuller	6.55P 20° PA 21.5° LH
F70 — Fuller	7.00P 23° PA 26° LH
F84 — Fuller	8.38P 18° PA 33.1° LH
F85 — Fuller	8.55P 21° PA Spur
F86 — Fuller	8.38P 18° PA 31.1° LH
M65 — Mack	8.48P 17.5° PA Spur
M83 — Mercedes	8.38P 17.5° PA 24.9° LH
S60 — Spicer	6.48P 17.65° PA 26° 10'37" LH
S68 — Spicer	6P or 6/8P 20° PA Spur Deep Reach
S70 — Spicer	7P 17.5° PA 28° 4'23" LH
S71 — Spicer	7P 17.5° PA 18° LH
S73 — Spicer	7.00P 22.5° PA 19° LH
U60 — Universal	6P 20° PA Spur
U68 — Universal	6P or 6/8PP 20° PA Spur

Speed Ratios*

03 — 0.33:1
04 — 0.44:1
05 — 0.47:1
06 — 0.56:1
07 — 0.70:1
09 — 0.87:1
12 — 1.15:1
14 — 1.44:1 (8-Bolt Only)

Note:

* Not all combinations are available for input gear options.
Refer to application catalog or service parts list for additional information.

**Integral Solenoid Shift CS6 Only

Special Features

X — None
C — Pulse Generator/Press Lube/SPD-2000
D — Pulse Generator/SPD-2000
H — Hino (ALLI-13)
P — Pressure Lube
R — Pulse Generator/No Pressure Lube
S — Pulse Generator/Pressure Lube
W — Wet Spline (Available with
"K" & "P" Outputs)
2 — 2021 & Later Hino (S Shift Type Only)

Output Types

B — 1 1/4" Round Keyed Shaft
C — 1410 Companion Flange
D — 36mm - 8T (DIN 5462)
E — 1 1/4" -14T, SAE "C" 2- & 4-Bolt
I — 36mm -8T, (DIN 5462) (Euro)
K — SAE "B" 7/8" -13T, SAE "B" 2- & 4-Bolt
L — 1"-15T, w/Low Box Mount
P — SAE "BB" 1" -15T, SAE "B" 2- & 4-Bolt
Q — SAE "B" 7/8" -13T, SAE "A" 2-Bolt
R — SAE "A" 7/8" -9T, SAE "A" 2-Bolt
S — SAE "B" 7/8" -13T, SAE "B" 2- Bolt
T — SAE "A" 3/4" -11T, SAE "A" 2- Bolt
Z — SAE "B" 1 1/4" -14T, SAE "B" 2- & 4-Bolt
2 — DIN 100 Companion Flange
6 — SAE "B" 7/8" -13T, SAE "B" 2-Bolt
7 — 1" -15T, SAE "BB" 2-Bolt

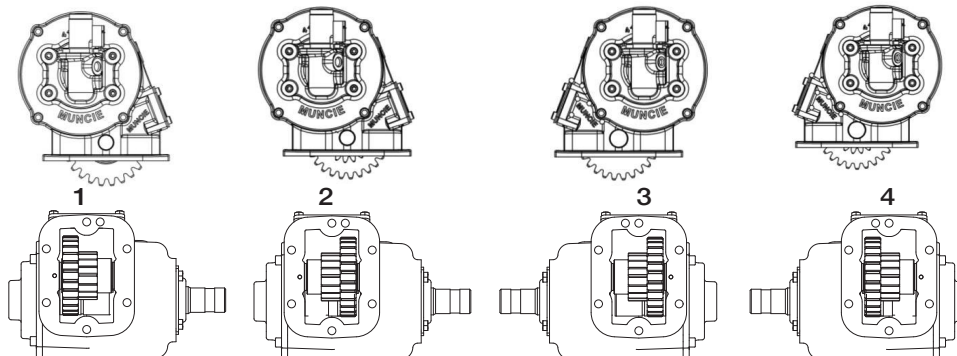
Assembly Arrangements

1 — Right Side Shaft Low
2 — Right Side Shaft Low, Gear to Rear
3 — Left Side Shaft Low
4 — Left Side Shaft Low, Gear To Rear
(See Assemblies Below)

Shift Types

A — Manual Air
B — 12 V Electric/Hydraulic (I84 Only)
D — 12 V Electric/Hydraulic 2013 Ram
E — 12 V Electric/Air
F — 24 V Electric/Air
G — 12 V Electric/Hydraulic Ram (2014 + Gas or Diesel Integral Solenoid) (I84 Only)
H — 12 V Electric/Hydraulic (Auto Trans. Only)
J — 24 V Electric/Hydraulic (Auto Trans. Only)
K — 24 V Manual Air
N — 12 V Electric/Hyd.** (1 Arr. PTO, Left Side; 3 Arr. PTO, Right Side Integral Solenoid) (A67/I84 Only)
P — Manual Air Shift Less Activation Controls
Q — 12 V Electric/Hydraulic Ram** (2013 Integral Solenoid) (I84 Only)
R — 24 V Electric/Hydraulic** (Integral Solenoid) (A67/I84 Only)
S — 12 V Electric/Hydraulic** (Integral Solenoid) (A67/I84 Only)
U — Hydraulic Shift** Less Activation Controls (Integral Solenoid)
2 — 12 V Electric/Hydraulic GM 4500-6500 (2019 & Later) & International CV

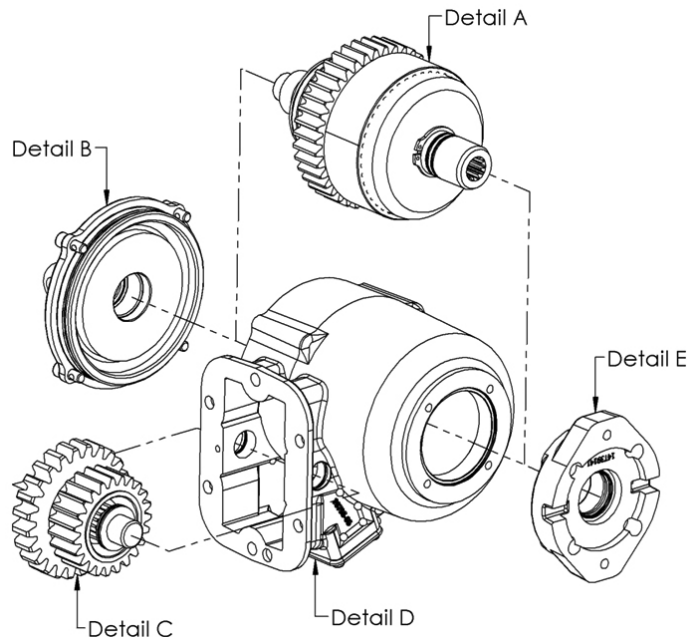
Assembly Arrangements



*Not all combinations are available for input gear options; refer to the application catalog or service parts list.

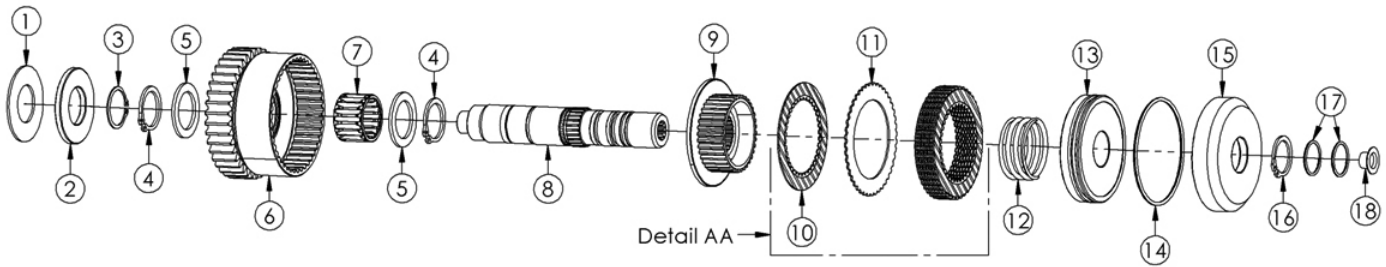
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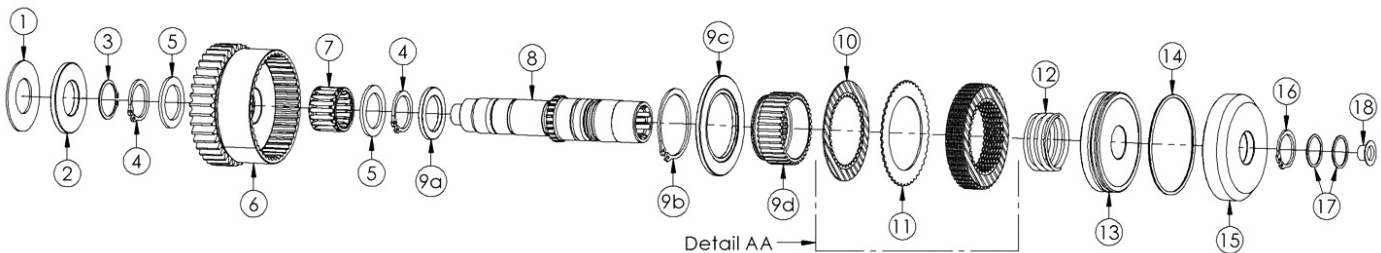
Detail A – Output Shaft Assemblies

Standard Output Shaft Assembly

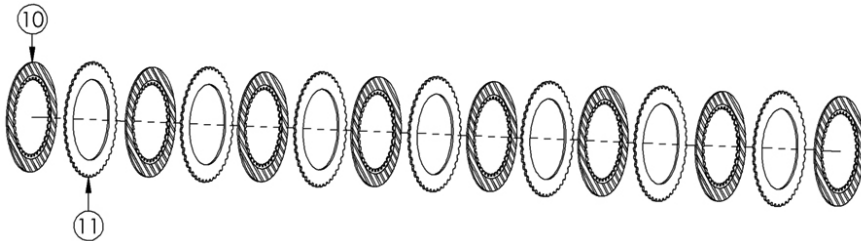


Note: A 2 & 4 assembly CS6/8 PTO with a speed ratio ranging from 05-09 uses a larger output gear and will require an additional roller bearing (item 7a) to be paired with the roller bearing (item 7) above.

“I”, “D” & “Z” Output Shaft Assembly

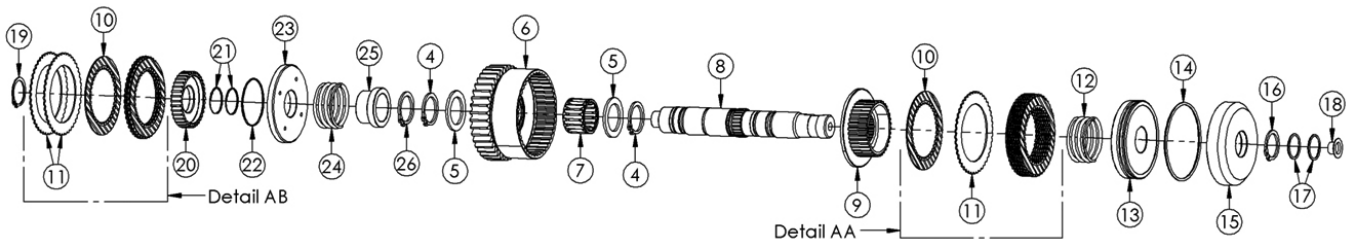


Detail AA – Standard Clutch Pack – Disc Locations*

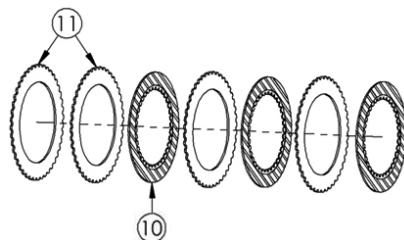


*The standard clutch pack assembly contains a single stator plate stacked between each friction disc. The assembly should begin and end with a friction disc.

Hi-Torque Brake Output Shaft Assembly (CB only)



Detail AB – Hi-Torque Brake Clutch Pack – Disc Locations*



*The Hi-torque clutch pack assembly contains a single stator plate stacked between each friction disc. The assembly should begin with two (2) stator plates and end with a friction disc.

ITEM	QTY.	PART NO.	DESCRIPTION	ITEM	QTY.	PART NO.	DESCRIPTION
1	1	21T36511	Washer	14	1	12T36054	O-Ring (CS8)
2	1	21T36512	Plate		1	12T36472	O-Ring (CS6)
3	1	24T27240	Snap Ring	15	1	49T36561	Piston Cup (5.25" O.D.) (CS8)
4	2	24T35480	Snap Ring		1	49T36464	Piston Cup (4.50" O.D.) (CS6)
5	2	21T29017	Thrust Washer		1	49T36115	Piston Cup (5.25" O.D.) ("I", "D", "E", & "Z")
6	1	See Table A	Bell Gear		1	49T38757	Piston Cup (5.25" O.D.) (2 & 4 Arr.)
7	1	10T36285	Needle Roller Bearing	16	1	24T36470	Snap Ring Std. Output
7A	1	10T37008	Needle Roller Bearing		1	24T36040	Snap Ring ("I", "D", "E", & "Z" Output)
8	1	See Detail E	Output Shaft	17	2	12T36471	O-Ring Std. Output
9	1	02T38792	Clutch Hub		2	12T36053	O-Ring ("I", "D", "E", & "Z" Output)
9a	1	21T38907	Washer	18	1	25T35520	Cap Plug ("R")
9b	1	24T37951	Snap Ring		1	25T35724	Cap Plug ("G", "K", "Q", "S", & "6")
9c	1	49T38818	Flange		1	25T35725	Cap Plug ("P")
9d	1	49T38819	Clutch Hub		1	25T37767	Cap Plug ("I" & "D")
10	8	49T33564	Friction Disc (CS)		1	25T35936	Cap Plug ("Z")
	3	49T33564	Friction Disc (CB)		1	25T37387	Cap Plug ("T")
11	7	49T33563	Spacer Disc (CS)	19	1	24T24315	Snap Ring
	4	49T33563	Spacer Disc (CB)	20	1	28T39964	Brake Hub
12	1	27T36112	Spring	21	2	12T35343	O-Ring
13	1	49T36560	Piston (CS8)	22	1	12T39967	O-Ring
	1	49T38878	Piston (CS6)	23	1	28T39963	Piston
	1	49T42027	Piston ("I", "D", "E", & "Z")	24	1	27T40389	Spring
	1	49T38758	Piston (2 & 4 Arr.)	25	1	28T40390	Spacer
				26	1	24T35480	Snap Ring

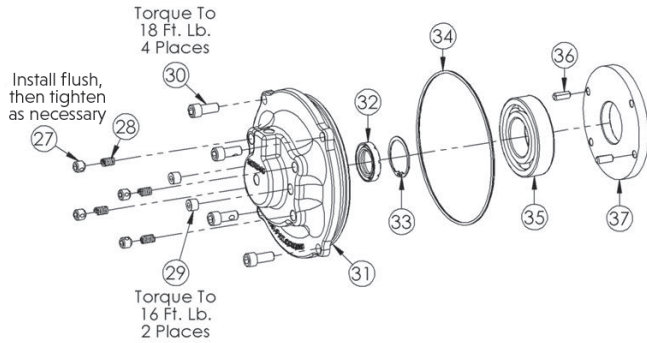
TABLE A - BELL GEAR (ITEM 6)

PART NO.	RATIO/TEETH	PART NO.	RATIO/TEETH
02T36744	03 Ratio (42T)	02T38991	06 Ratio (36T) "I" & "Z" Output
02T38988	03 Ratio (42T) "I" & "Z" Output	02T37913	06 Ratio (36T)
02T41324	03 Ratio (42T) A67	02T38764	06 Ratio (36T) 2 & 4 Assy.
02T41327	03 Ratio (42T) A67 "I" & "Z" Output	02T38765	07 Ratio (33T) 2 & 4 Assy.
02T36745	04 Ratio (39T)	02T42441	07 Ratio (33T) A67
02T38989	04 Ratio (39T) "I" & "Z" Output	02T36747	07 Ratio (33T)
02T41325	04 Ratio (39T) A67	02T38817	07 Ratio (33T) "I" & "Z" Output
02T41328	04 Ratio (39T) A67 "I" & "Z" Output	02T38766	09 Ratio (30T) 2 & 4 Assy.
02T38763	05 Ratio (38T) 2 & 4 Assy.	02T38992	09 Ratio (30T) "I" & "Z" Output
02T36746	05 Ratio (38T)	02T36748	09 Ratio (30T)
02T38990	05 Ratio (38T) "I" & "Z" Output	02T36749	12 Ratio (26T)
02T41326	05 Ratio (38T) A67	02T38994	12 Ratio (26T) "I" & "Z" Output
02T41329	05 Ratio (38T) A67 "I" & "Z" Output	02T36750	14 Ratio (23T)
		02T38995	14 Ratio (23T) "I" & "Z" Output

Detail B – End Cover Assemblies

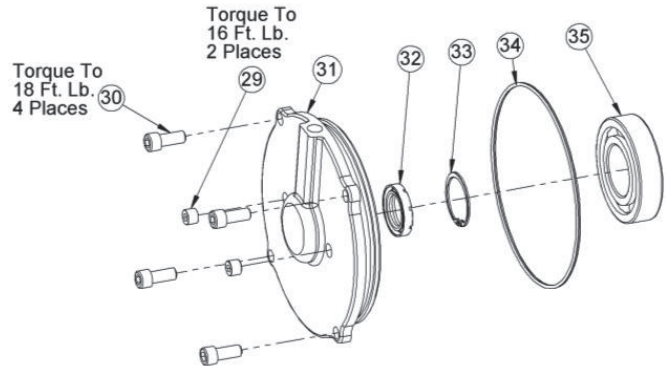
Standard End Cover Assembly

(CS6S, CS6B, CS6N, CS8S, & CS8B)



Low Profile End Cover Assembly

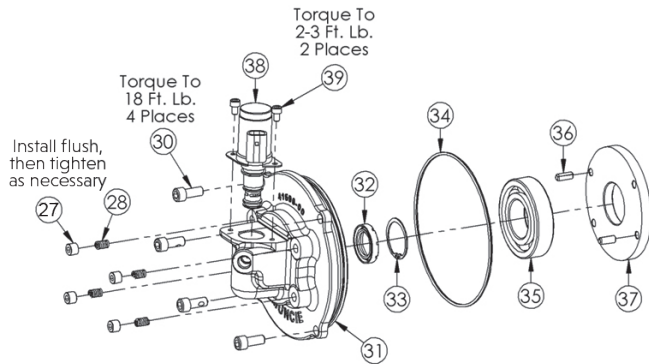
(CS6G & CS8G)



Drop-In Solenoid End Cover Assembly

(CS6S, CS6B, CS6N, CS8S, & CS8B)

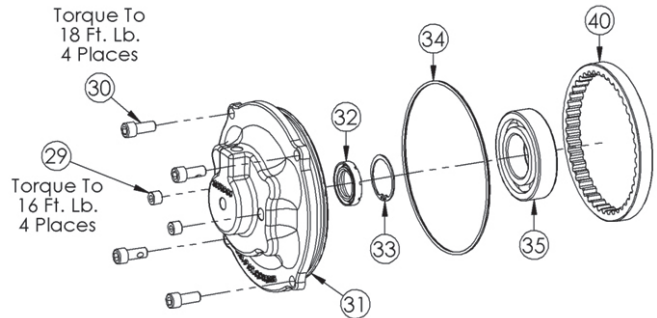
(Electric/Hydraulic Shift Only)



Hi-Torque Brake End Cover Assembly

(CB6* & CB8*)

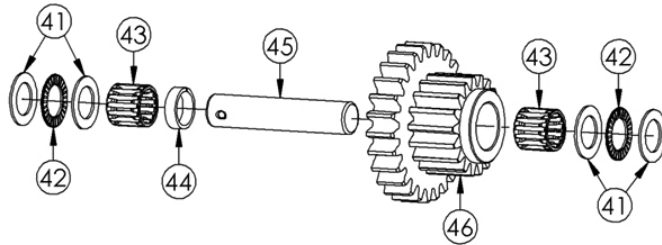
(Output Option "B", "K", & "P" Only)



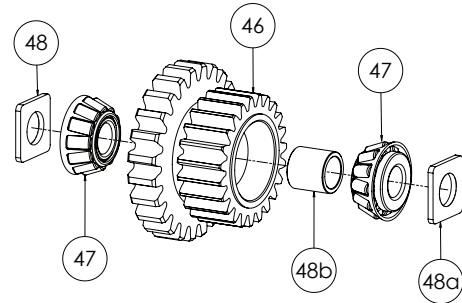
ITEM	QTY.	PART NO.	DESCRIPTION
27	4	19T36174	Set Screw
	4	19T41969	Set Screw (Drop-In)
28	4	27T36173	Spring
29	2	25T21684	Pipe Plug
30	4	19T35237	Cap Screw
31	1	15T36717	St. Closed Cover
	1	15T36860	Closed Cover (CS6G)
	1	15T39966	Closed Cover (CB*)
	1	15T41597	Closed Cover (w/Drop-In Solenoid)
32	1	11T66017	Seal
33	1	24T36894	Snap Ring
34	1	12T34003	O-Ring
35	1	10T21017	Bearing
	1	10T38248	Bearing
36	4	26T36175	Roll Pin
37	1	21T36473	Plate
38	1	35T40860	Solenoid
39	2	19T40859	Cap Screw
40	1	28T39965	Brake Ring

Detail C – Input Gear Assemblies

Standard for Ratios 03 & 04
(1 & 3 Assembly Arrangement Only)
Standard for Input Gear A6705
(Built after 06/2007)



Standard for Ratios 05, 06, 07, 09, 12, & 14
(1 & 3 Assy Arrangement Only)
Standard for Ratios 05, 06, 07, & 09
(2 & 4 Assy Arrangement Only)
(Standard for Input Gear A6805
Built before 06/2007 – See Note **)



ITEM	QTY.	PART NO.	DESCRIPTION	ITEM	QTY.	PART NO.	DESCRIPTION
41	4	21T34621	Thrust Race	46	1	See Table B	Input Gear
42	2	10T34620	Thrust Bearing	47	2	10T35776	Tapered Roller Bearings
43	2	10T34006	Needle Roller Bearing	48	1	18T41452	Input Bearing Shim
44	1	18T34622	Spacer	48a	1	See Table C.1	Input Bearing Shims
45	1	07T35947	Idler Shaft (03/04 Ratio, A6705)	48b	1	See Table C.2	Input Cone Spacer
	1	07T37071	Idler Shaft8 (05-14 Ratios)				

TABLE B – INPUT GEAR (ITEM 46)

DESIGNATOR	PART NO.	TEETH	GEAR DATA	DESIGNATOR	PART NO.	TEETH	GEAR DATA
A6703	03T65110	26/14	6.86P 20° PA Spur	M6504	03T36775	26/17	6.48P 17.65° PA Spur
A6704	03T41319	26/17	6.86P 20° PA Spur	M6505	03T37070	26/18	6.48P 17.65° PA Spur
A6705**	03T41320	26/18	6.86P 20° PA Spur	M6507	03T37058	26/23	6.48P 17.65° PA Spur
A6707*	03T42442	30/23	6.86P 20° PA Spur	M6509	03T37059	26/26	6.48P 17.65° PA Spur
C6112	03T37067	20/30	6.1P 25° PA 32.28° LH	M6512	03T37060	26/30	6.48° P 17.66° PA Spur
C7012	03T37068	23/30	7P 25° PA 30.78° LH	M8307	03T38761	30/23	8.38P 19.16° PA 24° 58' LH (2 & 4 Assy.)
F1012	03T37984	42/30	10.1P 20° PA Spur	M8309	03T38762	30/26	8.38P 19.16° PA 24° 58' LH (2 & 4 Assy.)
F6307	03T37086	24/23	6.35P 20° PA 22° LH	S6007	03T37061	21/23	6P 17.5° PA 26.17° LH
F6309	03T38356	24/26	6.35P 20° PA 22° LH	S6807	03T37062	26/23	6/8P 20° PA Spur
F6607	03T38502	24/23	6.65P 20° PA 21.5° LH	S6809	03T37063	26/26	6/8P 20° PA Spur
F6609	03T38503	24/26	6.65P 20° PA 21.5° LH	S6812	03T37064	26/30	6/8P 20° PA Spur
F6612	03T38504	24/30	6.65P 20° PA 21.5° LH	S7009	03T37065	24/26	7P 17.5° PA 28.07° LH
F7007	03T38194	26/23	7P 23° PA 26 LH	S7107	03T37149	29/23	7P 17.5° PA 18° LH
F7009	03T40234	26/26	7P 23° PA 26 LH	U6003	03T36737	24/14	6P 20° PA Spur
F8405	03T37741	28/18	8.38P 18° PA 33.1 LH	U6004	03T36738	24/17	6P 20° PA Spur
F8409	03T37743	28/26	8.38P 18° PA 33.1 LH	U6005	03T37069	24/18	6P 20° PA Spur
F8607	03T39447	28/23	8.38P 18° PA 33.1 RH	U6806	03T38262	24/20	6/8P 20° PA Spur
I8403	03T43310	34/14	8.46P 20° PA 29 LH	U6807	03T37038	24/23	6/8P 20° PA Spur
I8404	03T43311	34/17	8.46P 20° PA 29 LH	U6809	03T37039	24/26	6/8P 20° PA Spur
I8405	03T43312	34/18	8.46P 20° PA 29 LH	U6809	03T38801	24/26	6/8P 20° PA Spur (2 & 4 Assy.)
I8407	03T43313	34/23	8.46P 20° PA 29 LH	U6812	03T37040	24/30	6/8P 20° PA Spur
I8505	03T37091	38/18	8.46P 20° PA 29 LH	U6814 (8-Blt)	03T37042	24/33	6/8P 20° PA Spur

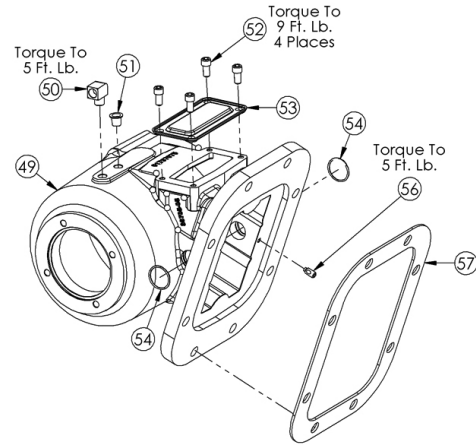
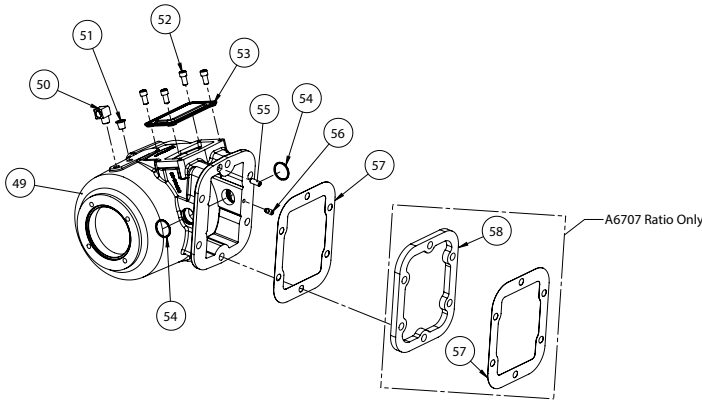
NOTES:

*Requires 23M60350 and 20TK6390 to mount.

**Produced after 06/07; uses needle bearings and requires a 03-04 ratio housing. An A67 input gear replaces an A68 input gear.

Detail D – PTO Housing Assemblies

6-Bolt Housing 8-Bolt Housing



ITEM	QTY.	PART NO.	DESCRIPTION	ITEM	QTY.	PART NO.	DESCRIPTION
49	1	See Table D	PTO Housing	55	2	26T37992	Dowel Pin (F84 Only)
50	1	43T37385	Orifice Fitting (P – Special Feature)	56	1	19T35785	Set Screw
51	1	25T36570	Cap Plug	57	1	See Table E	Gasket
52	4	19T41118	Cap Screw	*58	1	23M60350X	Spacer
53	1	16T41119	Cover	*A6707 Ratio Only			
54	2	12T35949	O-Ring				
	2	12T35774	O-Ring				

TABLE C.1 – BEARING SHIMS (ITEM 48a)

PART NO.	DESCRIPTION	DIMENSION	PART NO.	DESCRIPTION	DIMENSION
18TK5233	Service Part Kit	All Bearings	18T41451	Bearing Shim	(.1500"/.1480")
18T41437	Bearing Shim	(.1150"/.1130")	18T41438	Bearing Shim	(.1175"/.1155")
18T41439	Bearing Shim	(.1200"/.1180")	18T41440	Bearing Shim	(.1225"/.1205")
18T41441	Bearing Shim	(.1250"/.1230")	18T41442	Bearing Shim	(.1275"/.1255")
18T41443	Bearing Shim	(.1300"/.1280")	18T41444	Bearing Shim	(.1325"/.1305")
18T41445	Bearing Shim	(.1350"/.1330")	18T41446	Bearing Shim	(.1375"/.1355")
18T41447	Bearing Shim	(.1400"/.1380")	18T41448	Bearing Shim	(.1425"/.1405")
18T41449	Bearing Shim	(.1450"/.1430")	18T41450	Bearing Shim	(.1475"/.1455")

TABLE C.2 – PAGE 8 CONE SPACER (ITEM 48b)

PART NO.	DESCRIPTION	DIMENSION	PART NO.	DESCRIPTION	DIMENSION
18T38635	Spacer, Bearing	(0.998" / 0.996")	18T38642	Spacer, Bearing	(0.977"/0.975")
18T38636	Spacer, Bearing	(0.995" / 0.993")	18T38643	Spacer, Bearing	(0.974"/0.972")
18T38637	Spacer, Bearing	(0.992" / 0.990")	18T38644	Spacer, Bearing	(0.971"/0.969")
18T38638	Spacer, Bearing	(0.989" / 0.987")	18T38645	Spacer, Bearing	(0.968"/0.966")
18T38639	Spacer, Bearing	(0.986" / 0.984")	18T38646	Spacer, Bearing	(0.965"/0.963")
18T38640	Spacer, Bearing	(0.983" / 0.981")	18T38647	Spacer, Bearing	(0.962"/0.960")
18T38641	Spacer, Bearing	(0.980" / 0.978")	18T38648	Spacer, Bearing	(0.959"/0.957")
			18T38649	Spacer, Bearing	(0.956"/0.954")

TABLE D – PTO HOUSING (ITEM 49)

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
01T36713	6-Bolt Housing (03-04) "1" Std. & "1" w/A6705	01T36706	6-Bolt Housing (03-04) "3" Std. & "3" w/A6705
01T42111*	6-Bolt Housing (05-14) "1" & "2" Std.	01T42110*	6-Bolt Housing (05-14) "3" & "4" Std.
01T42884*	6-Bolt Housing (05-14) "1" N - Mounting	01T42883*	6-Bolt Housing (05-14) "3" N - Mounting
01T42184*	6-Bolt Housing (05-14) "1" F - Mounting	01T42185*	6-Bolt Housing (05-14) "3" F - Mounting
01T39816	6-Bolt Housing (03-04) "1" (I, D, or Z) & "1" w/A6705 (I, D, or Z)	01T39817	6-Bolt Housing (03-04) "3" (I, D, or Z) & "3" w/A6705 (I, D, or Z)
01T42181*	6-Bolt Housing (05-14) "1" (I, D, or Z)	01T42180*	6-Bolt Housing (05-14) "3" (I, D, or Z)
01T36715	8-Bolt Housing (03-04) "1" Std.	01T36711	8-Bolt Housing (03-04) "3" Std.
01T42182*	8-Bolt Housing (05-14) "1" & "2" Std.	01T42183*	8-Bolt Housing (05-14) "3" & "4" Std.
01T42187*	8-Bolt Housing (05-14) "1" (I, D, or Z)	01T42186*	8-Bolt Housing (05-14) "3" (I, D, or Z)
01T42188*	8-Bolt Housing (05-14) "1" (E)	01T42189*	8-Bolt Housing (05-14) "3" (E)

NOTE: *These housings use square thrust washers on both sides of input gear

Detail D – PTO Housing Assemblies (continued)

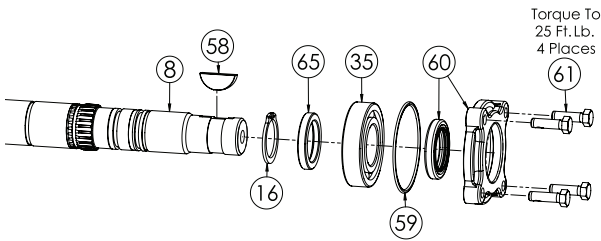
TABLE E – GASKETS (ITEM 57)

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
13M13541	1	Allison Gasket 0.031 (U60)	13M35151	2	Gasket 0.010 (8-Bolt)
13M35092	1	Gasket 0.020 (6-Bolt)	13M35198	1	Gasket 0.010 (I85)
13M35152	2	Gasket 0.020 (8-Bolt)	13T63159	1	*Gasket 0.010 (6-Bolt)
13M35199	1	Gasket 0.020 (I85)	13T63988	1	*Gasket 0.020 (6-Bolt)
13M35091	1	Gasket 0.010 (6-Bolt)	13T63989	1	*Gasket 0.030 (6-Bolt)

*Metal Core Gaskets

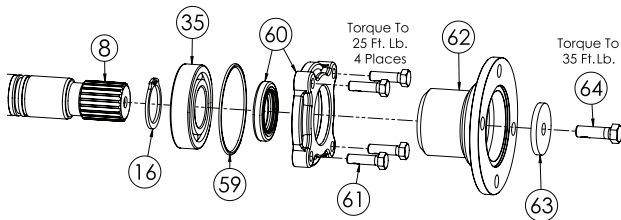
Detail E – Output Options

“B” Output



ITEM	QTY.	PART NO.	DESCRIPTION
8	1	06T36892	Output Shaft “B” – 1.3" Rd. Keyed; CS6/8S
	1	06T37167	Output Shaft “B” – 1.3" Rd. Keyed; CS6/8G
	1	06T38767	Output Shaft “B” – 1.3" Rd. Keyed; 2 & 4 Assy.
	1	06T39874	Output Shaft “B” – (CB6/8)
16	1	24T36470	Snap Ring
35	1	10T21017	Bearing
58	1	26T01627	Woodruff Key
59	1	12T36751	O-Ring
60	1	15TA5220	Flange/Seal Assembly
61	4	19T41756	Cap Screw
65	1	28T62371	Spacer, Bearing

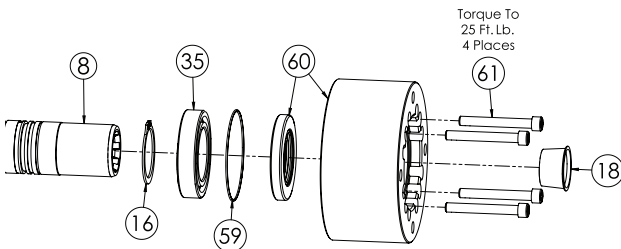
“C” & “2” Output Option



ITEM	QTY.	PART NO.	DESCRIPTION
8	1	06T37372	Output Shaft “2”, “C”, & “X” 1.3"-20T
16	1	24T36470	Snap Ring
35	1	10T21017	Bearing
59	1	12T36751	O-Ring
60	1	15TA5220	Flange/Seal Assembly
61	4	19T41756	Cap Screw
62	1	14T37357	Companion Flange “C”
	1	14T37378	Companion Flange “2”
63	1	21T20092	Flat Washer
64	1	19T38266	Cap Screw

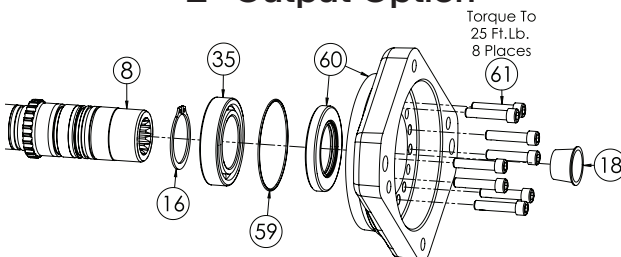
“D” & “I” Output Option

“I” Output Shown



ITEM	QTY.	PART NO.	DESCRIPTION
8	1	06T41013	Output Shaft “D” DIN 5462 (Euro)
	1	06T38996	Output Shaft “I” DIN 5462
	1	06T39526	Output Shaft “I” DIN 5462 (CS6/8G)
16	1	24T38347	Snap Ring
	1	28T39404	Spacer (“I” CS6G Only)
18	1	25T35936	Cap Plug
35	1	10T38248	Bearing
59	1	12T38344	O-Ring
60	1	14TA4824	Flange/Seal (“I”)
	1	14TA4817	Flange/Seal (“D” & “I” CS6G)
61	4	19T96512	Cap Screw (“I” Output)
	4	19M84478	Cap Screw (“D” & “I” CS6G)

“E” Output Option



ITEM	QTY.	PART NO.	DESCRIPTION
8	1	06T40205	Output Shaft “E” 1 1/4" -14T
16	1	24T38347	Snap Ring
18	1	25T35936	Cap Plug
35	1	10T38248	Bearing
59	1	12T38344	O-Ring
60	1	14TA5380	Flange/Seal Assembly
61	8	19M84478	Cap Screw

Detail E – Output Options (continued)

ITEM	QTY.	PART NO.	DESCRIPTION
8	1	06T36893	Output Shaft “K”
	1	06T37089	Output Shaft “P”
16	1	24T36470	Snap Ring
18	1	25T35724	Cap Plug “K”
	1	25T35725	Cap Plug “P”
35	1	10T21017	Bearing
59	1	12T36751	O-Ring
60	1	14TA3996	Flange/Seal Assembly – Wet Spline Only
61	4	19T34462	Cap Screw
65	1	28T62371	Spacer, Bearing

ITEM	QTY.	PART NO.	DESCRIPTION
8	1	06T37089	Output Shaft “L”
16	1	24T36470	Snap Ring
18	1	25T35725	Cap Plug
35	1	10T21017	Bearing
59	1	12T36751	O-Ring
60	1	14TA5236	Flange/Seal Assembly
61	4	19T34462	Cap Screw

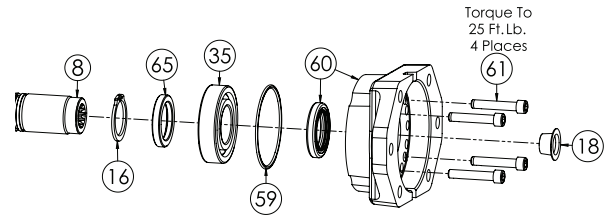
ITEM	QTY.	PART NO.	DESCRIPTION
8	1	06T38964	Output Shaft “R”
	1	06T37090	Output Shaft “Q”
	1	06T37336	Output Shaft “T”
16	1	24T36470	Snap Ring
18	1	25T35725	Cap Plug
35	1	10T21017	Bearing
59	1	12T36751	O-Ring
60	1	14TA3997	Flange/Seal Assembly
61	4	19T39257	Cap Screw
65	1	28T62371	Spacer, Bearing

ITEM	QTY.	PART NO.	DESCRIPTION
8	1	06T37090	Output Shaft “S”
16	1	24T36470	Snap Ring
18	1	25T37387	Cap Plug
35	1	10T21017	Bearing
59	1	12T36751	O-Ring
60	1	14TA3999	Flange/Seal Assembly
61	4	19T39257	Cap Screw
65	1	28T62371	Spacer, Bearing

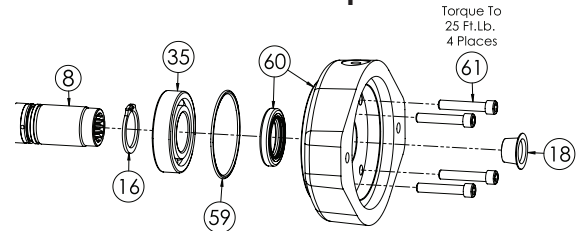
ITEM	QTY.	PART NO.	DESCRIPTION
8	1	06T38908	Output Shaft “Z”
16	1	24T38347	Snap Ring
18	1	25T35936	Cap Plug
35	1	10T38248	Bearing
59	1	12T38344	O-Ring
60	1	14TA4818	Flange/Seal Assembly
61	4	19T38249	Cap Screw

ITEM	QTY.	PART NO.	DESCRIPTION
8	1	06T36893	Output Shaft “6”
	1	06T37089	Output Shaft “7”
16	1	24T36470	Snap Ring
18	1	25T35936	Cap Plug
35	1	10T21017	Bearing
59	1	12T36751	O-Ring
60	1	14TA4819	Flange/Seal Assembly
61	4	19T34462	Cap Screw
65	1	28T62371	Spacer, Bearing

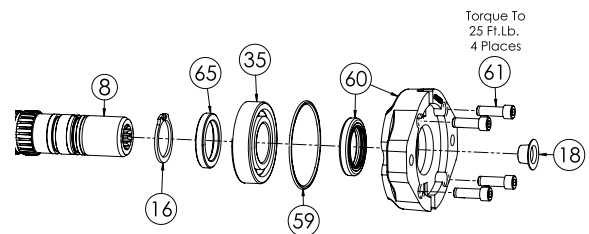
“K” & “P”



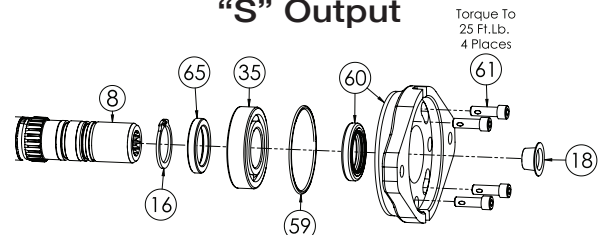
“L” Output



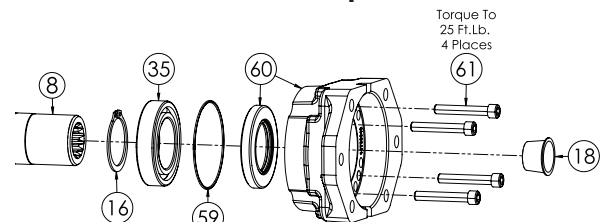
“R” “Q” & “T” Output



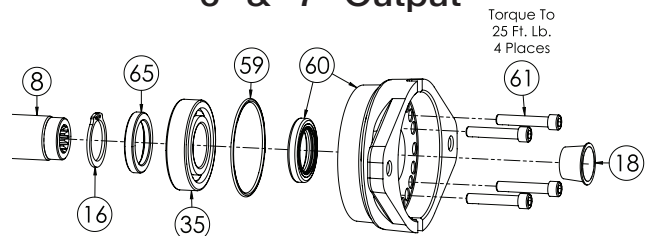
“S” Output



“Z” Output



“6” & “7” Output

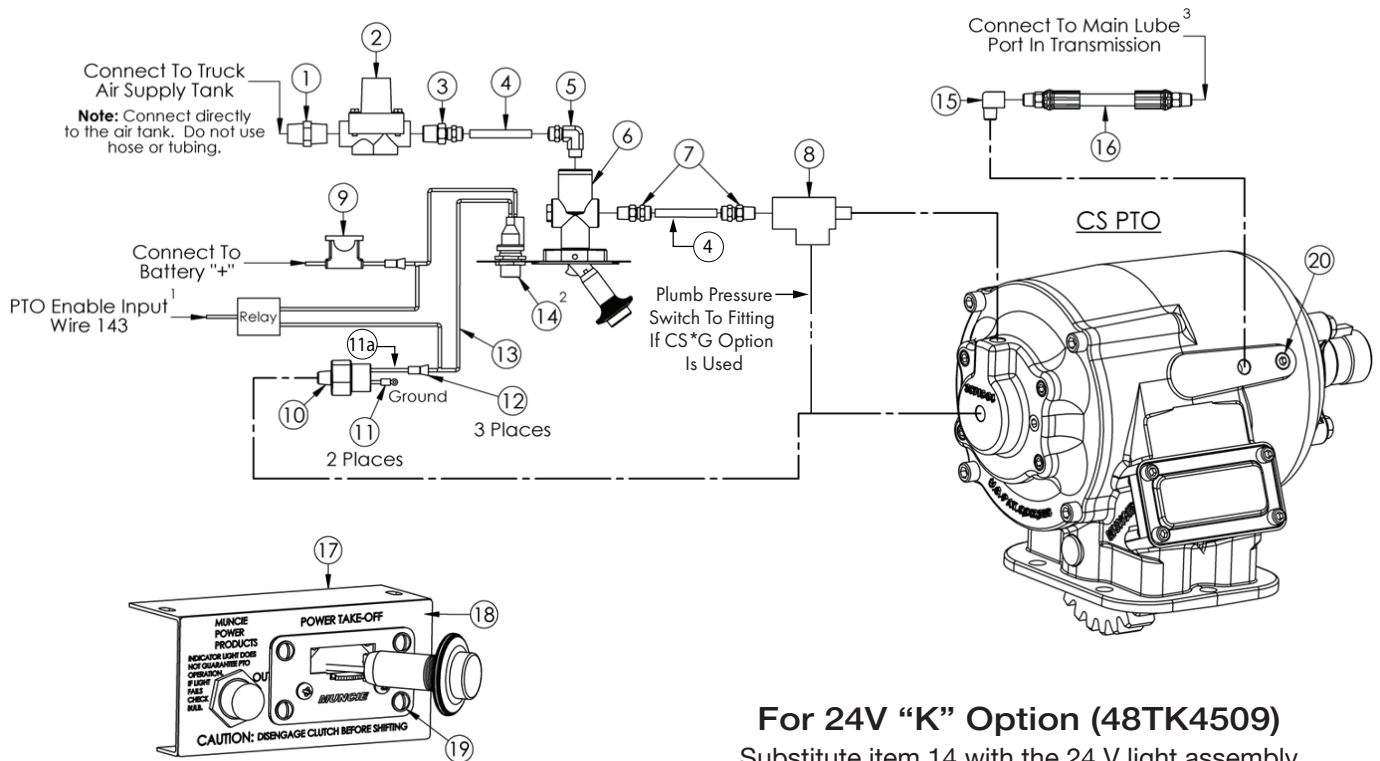


**Output Shaft Seals: Output B, C, 2, X, G, K, P, Q, R, T, S, 6, and 7 use 11T65108. Output D, I, and Z use 11T64141.

Installation Kits

Manual Air Shift System

48TK4508 (12 V – “A” Option) & 48TK4509 (24 V – “K” Option)



For 24V “K” Option (48TK4509)

Substitute item 14 with the 24 V light assembly (32M24001)

ITEM	QTY.	PART NO.	DESCRIPTION
1	1	44MB2164	Pipe Nipple
2	1	31M15759	Pressure Protection Valve
3	1	44MB6844	Fitting
4	1	45M44430	Tubing (30 Ft.)
5	1	44MB6942	Elbow Fitting
6	1	35M18653	Air Valve
7	2	44MB6842	Fitting
8	1	44MB2252	Street Tee
9	1	33T36299	Fuse Assembly
10	1	30T60228	Pressure Switch
11	2	34M18009	Ring Terminal
11a	1	34T36941	Wiring Pigtail

ITEM	QTY.	PART NO.	DESCRIPTION
12	1	34T36362	Closed End Crimp
13	1	37T42512	Wire (12 Ft.)
14	1	32M12001	12 V Light Assembly
Items 15 & 16 are included with the “P” special feature			
15	1	43T37385	Orifice Fitting
16	1	45M4R536	Lube Hose Assembly
17	2	36MA1004	Dash Bracket
18	1	36T38978	Face Plate
19	1	36MK1007	Dash Bracket Bolt Kit
20	1	25T21684	Pipe Plug

Footnotes:

1. Allison TCM (Pin 43)

- Clutch shift PTO's require a connection to the Allison “PTO Enable Input” circuits. Check the vehicle dealer or body builder's information for this location. (Relay not supplied. Suggested installation shown for Allison interface.)

2. Light Assembly

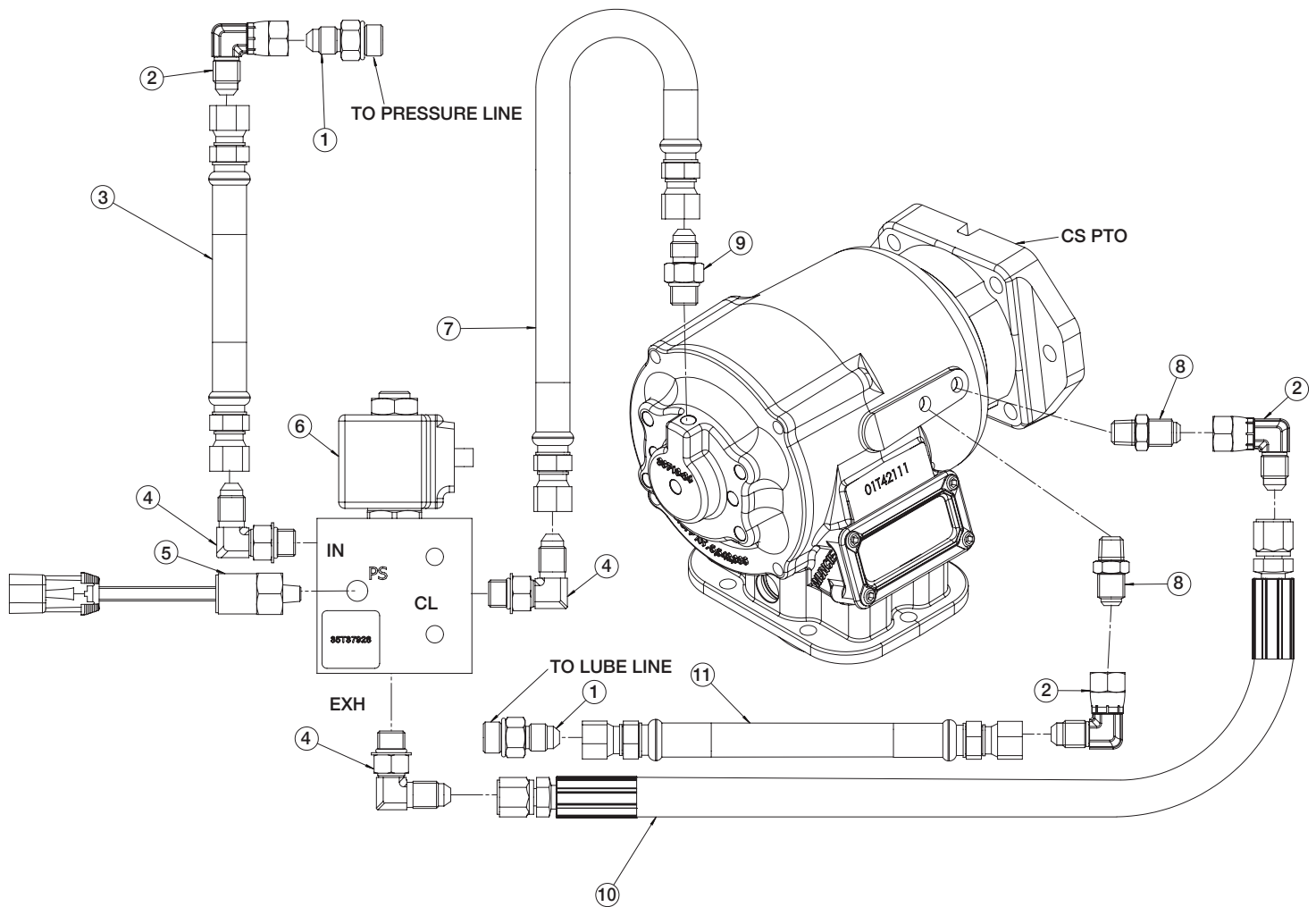
- Red light in the light assembly is to turn “ON” when the PTO is engaged and turn “OFF” when the PTO is disengaged.

3. Lube Pressure Connection

- An additional fitting(s) may need to be used for proper connection to the lubrication port in each transmission; refer to the PTO Installation & Operator's Manual (IN84-03) for more information

Electric/Hydraulic Shift System

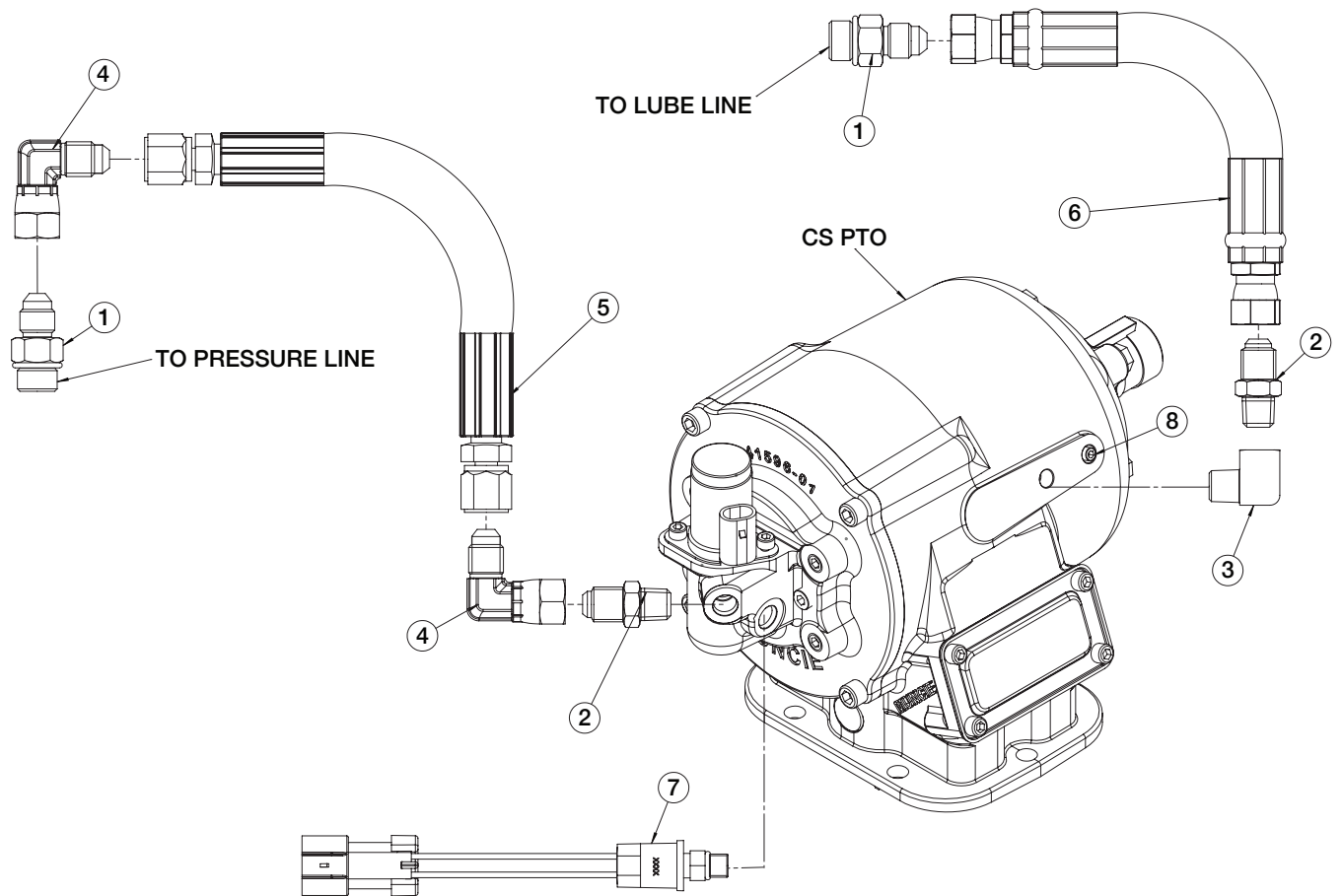
48TK5474 (12 V – “D” Option) Ram Diesel



ITEM	QTY.	PART NO.	DESCRIPTION
1	1	43T39222	Adapter
2	3	43T33445	Elbow Fitting
3	2	45T36274	Hose Assembly
4	3	43M68014	JIC Elbow Fitting
5	1	30T43210	Pressure Switch
6	1	35T37928	Solenoid Block
7	1	45T38840	Hose Assembly
8	2	43T37503	Straight Fitting
9	1	43T36431	Straight Fitting
10	1	45T35880	Hose Assembly
11	1	45T35865	Hose Assembly

Electric/Hydraulic Shift System

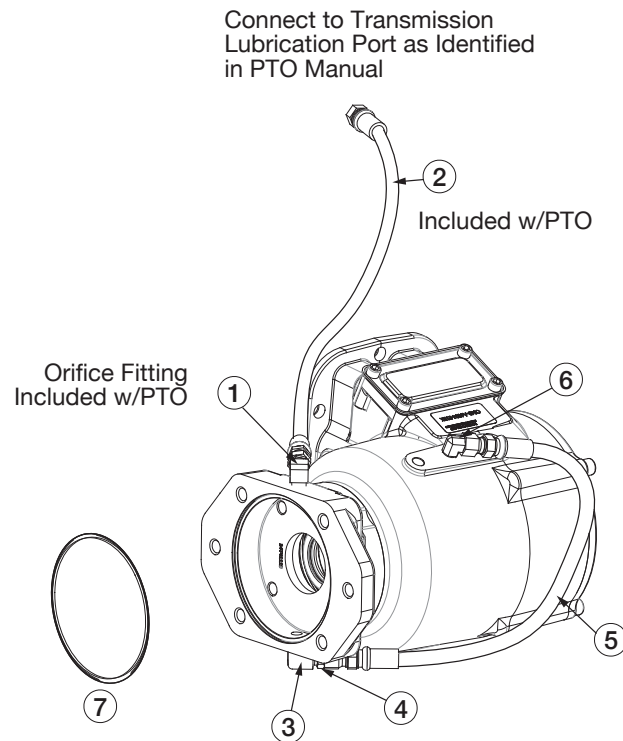
48TK5559 (12 V – “G” Option) Ram Gas



ITEM	QTY.	PART NO.	DESCRIPTION
1	2	43T39222	Straight Fitting
2	2	43T37503	Straight Fitting
3	1	43T37385	Orifice Fitting
4	2	43T36445	Elbow Fitting
5	1	45T38840	Hose Assembly
6	1	45T36308	Hose Assembly
7	1	30T60223	Pressure Switch
8	1	25T21684	Pipe Plug

Electric/Hydraulic Shift System

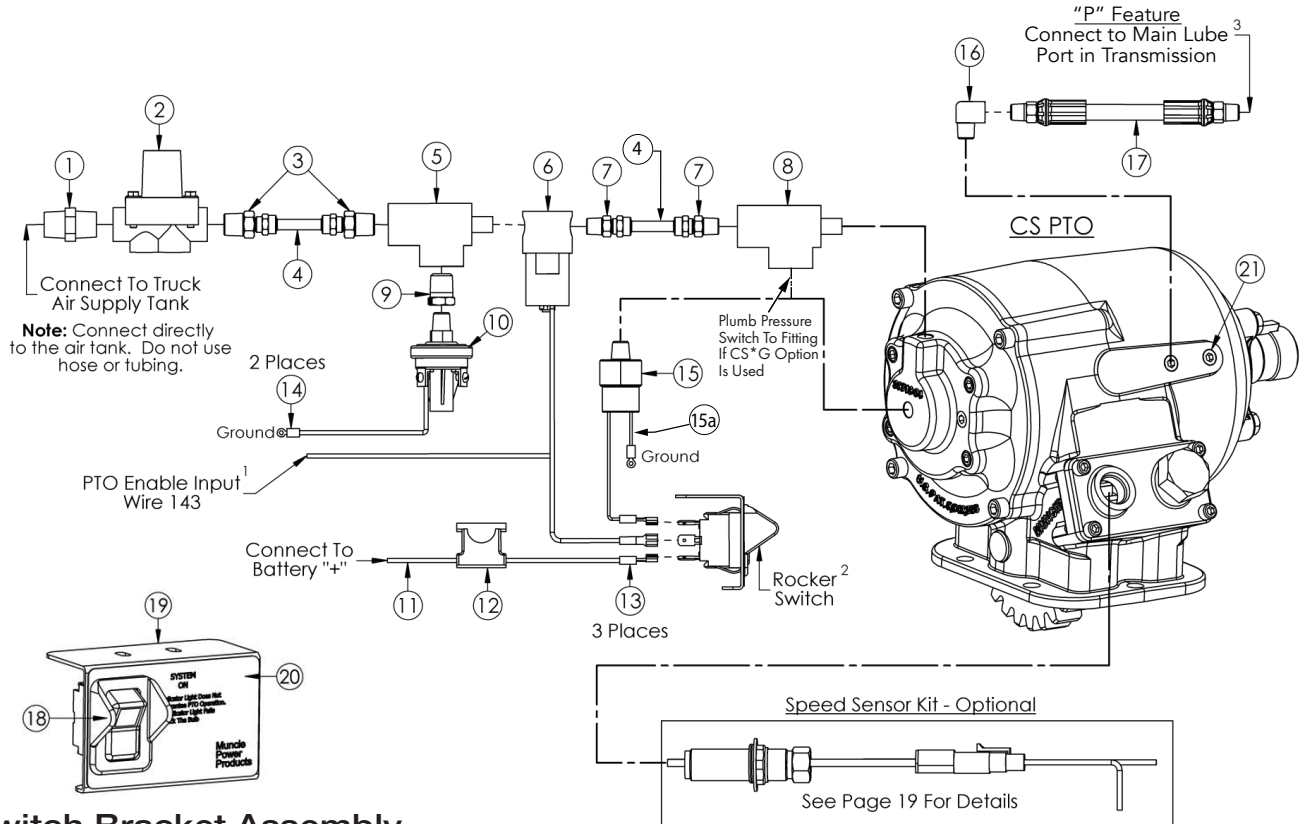
45TK5272 (“K” Option) Wet Spline Output



ITEM	QTY.	PART NO.	DESCRIPTION
1	1	43T37385	Orifice Fitting
2	1	45M4R536	Hose Assembly
3	1	44MB0222	Elbow Air Fitting
4	1	43T37503	JIC Fitting
5	1	45T39186	Hose Assembly
6	1	43T35867	Elbow Fitting
7	1	12T43185	O-Ring
8	1	43T39222	Fitting (Not Shown)

Electric/Air Shift System

48TK3928 (12 V – “E” Option) & 48TK3931 (24 V – “F” Option)



Switch Bracket Assembly

12 V - 30T36270

24 V - 30T36453

For 24 V "F" Option (48TK3931)

Include items 19 and 20 and substitute item 6 with the 24 V solenoid valve block (35M31692) and substitute item 18 with the 24 V rocker switch (30T35712).

This kit also comes with the 24 V light assembly (32MSR24V) and the faceplate with light access (36M01006)

ITEM	QTY.	PART NO.	DESCRIPTION
1	1	44MB2164	Pipe Nipple
2	1	31M15759	Pressure Protection Valve
3	2	44MB6844	Fitting
4	1	45M44430	Tubing (30 Ft.)
5	1	35M30692	Street Tee
6	1	35M30692	12 V Solenoid Valve
7	2	44MB6842	Fitting
8	1	44MB2252	Street Tee
9	1	44MB0942	Reducer Bushing
10	1	31M14732	Press. Safety Switch (NO 80 PSI)
11	2	37T42512	Wire (12 Ft.)
12	1	33T36299	Fuse Assembly

ITEM	QTY.	PART NO.	DESCRIPTION
13	3	34M18250	Female Spade Connector (1/4")
14	2	34M18009	Ring Terminal
15	1	30T60228	Pressure Switch
15a	1	34T36941	Wiring Pigtail
Items 16 & 17 are included with the "P" special feature			
16	1	43T37385	Orifice Fitting
17	1	45M4R536	Lube Hose Assembly
18	1	30T35687	12 V Rocker Switch
19	1	36MA1005	Switch Bracket
20	1	36T36271	Face Plate
21	1	25T21684	Pipe Plug
N.S.	1	48TA3953	Solenoid Bracket Kit

Footnotes:

1. Allison TCM (Pin 43)

- Clutch shift PTO's require a connection to the Allison "PTO Enable Input" circuits. Check the vehicle dealer or body builder's information for this location.

2. Rocker Switch

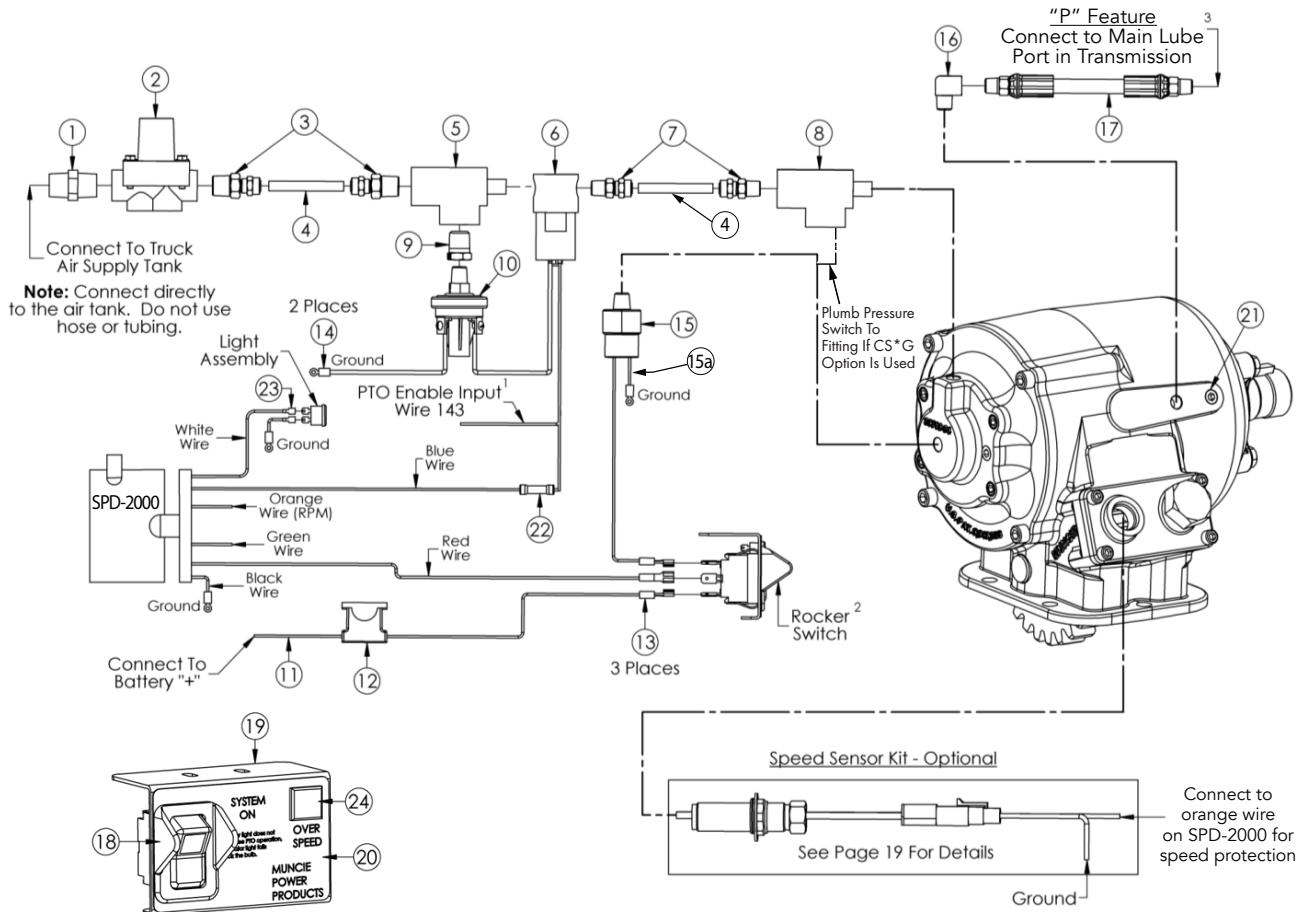
- Red light in the rocker switch is to turn "ON" when the PTO is engaged and turn "OFF" when the PTO is disengaged.

3. Lube Pressure Connection

- An additional fitting(s) may need to be used for proper connection to the lubrication port in each transmission; refer to the PTO Installation & Operator's Manual (IN84-03) for more information.

Electric/Air Shift System with System Protection Feature

48TK3928 (12 V – “E” Option) & 48TK3931 (24 V – “F” Option)



Switch Bracket Assembly

12 V - 30T36270

24 V - 30T36453

For 24 V “F” Option (48TK3931)

Include items 19 and 20 and substitute item 6 with the 24 V solenoid valve block (35M31692) and substitute item 18 with the 24 V rocker switch (30T35712). This kit also comes with the 24 V light assembly (32MSR24V) and the faceplate with light access (36M01006).

Overspeed

Faceplate with light access and overspeed light are not included in 30T36270 (12 V bracket assembly) and are to be ordered separately in kit 36TK4971. They are included in the 24 V kit (48TK5112 & 48TK4117)

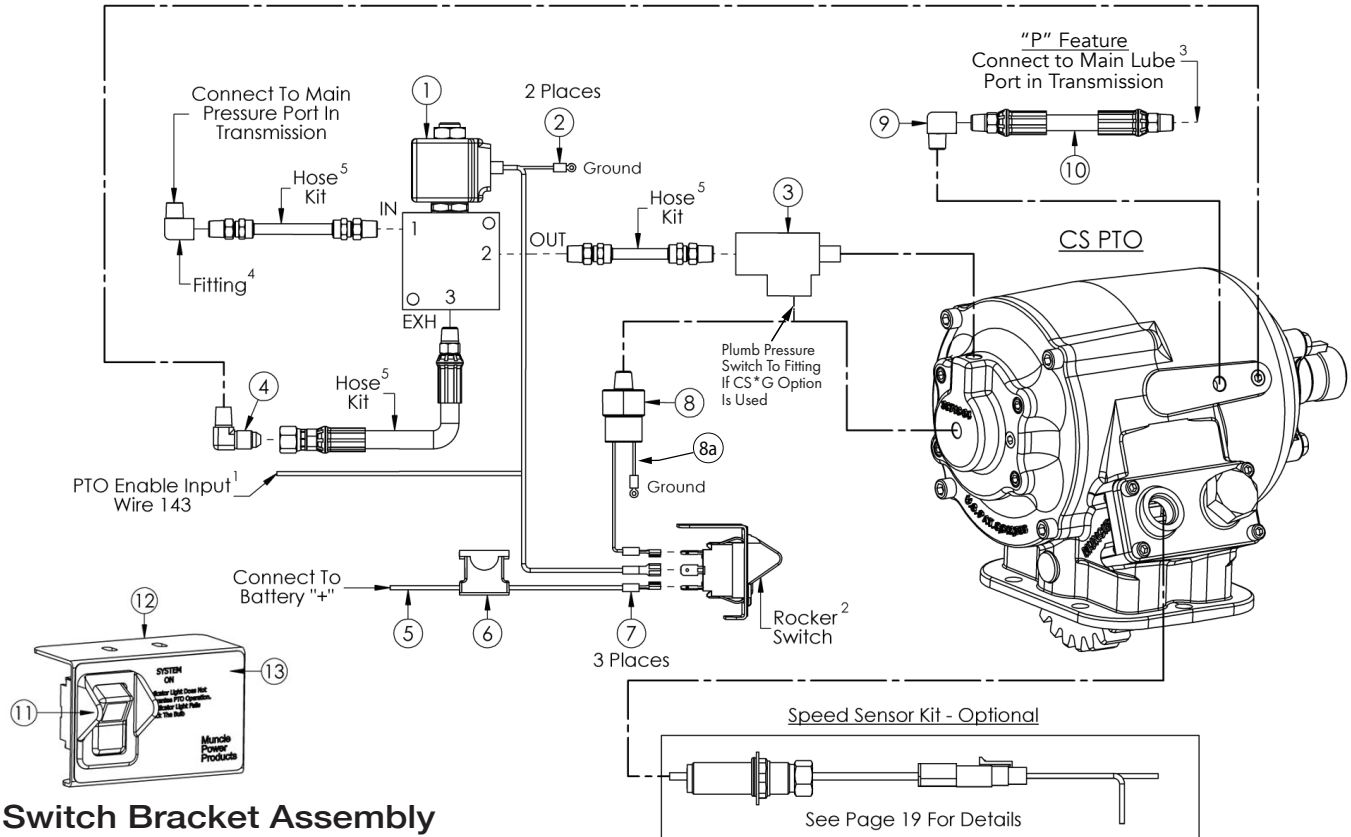
ITEM	QTY.	PART NO.	DESCRIPTION
1	1	44MB2164	Pipe Nipple
2	1	31M15759	Pressure Protection Valve
3	2	44MB6844	Fitting
4	1	45M44430	Tubing (30 Ft.)
5	1	35M30692	Street Tee
6	1	35M30962	12 V Solenoid Valve
7	2	44MB6842	Fitting
8	1	44MB2252	Street Tee
9	1	44MB0942	Reducer Bushing
10	1	31M14732	Press. Safety Switch (NO 80 PSI)
11	1	37T42512	Wire (12 Ft.)
12	1	33T36299	Fuse Assembly
13	3	34M18250	Female Spade Connector (1/4")
14	2	34M18009	Ring Terminal

ITEM	QTY.	PART NO.	DESCRIPTION
15	1	30T60228	Pressure Switch
15a	1	34T36941	Wiring Pigtail
Items 16 & 17 are included with the “P” special feature			
16	1	43T37385	Orifice Fitting
17	1	45MR536	Lube Hose Assembly
18	1	30T35687	12 V Rocker Switch
19	1	36MA1005	Switch Bracket
20	1	36M01006	Face Plate with Light Access
21	1	25T21684	Pipe Plug (Included w/PTO)
Items 20, 22, 23, & 24 are included in kit 36TK4971			
22	1	34M18002	Butt Splice
23	2	34M18187	Female Space Connector (3/16")
24	1	32MSR12V	Overspeed Light 12 V
N.S.	1	43TA3953	Solenoid Bracket Kit

Footnotes: See page 12 for footnotes 1, 2 & 3.

Electric/Hydraulic Shift System

48TK3927B (12 V – “H” Option) & 48TK3930A (24 V – “J” Option)



Switch Bracket Assembly

12 V - 30T36270

24 V - 30T36453

For 24V “J” Option (48TK3930A)

Include items 12 and 13 and substitute item 1 with the 24 V solenoid valve block (35M24340B) and substitute item 13 with the 24 V rocker switch (30T35712). This kit also comes with the 24 V light assembly (32MSR24V) and the faceplate with light access (36M01006).

ITEM	QTY.	PART NO.	DESCRIPTION
1	1	35M12340A	12 V Solenoid Valve
2	2	34M18009	Ring Terminal
3	1	44MB2252	Street Tee
4	1	43T35867	Fitting
5	1	37T42512	Wire (12 Ft.)
6	1	33T36299	Fuse Assembly
7	3	34M18250	Female Spade Connector (¼")
8	1	30T60228	Pressure Switch
8a	1	34T36941	Wiring Pigtail

ITEM	QTY.	PART NO.	DESCRIPTION
Items 9 & 10 are included with the “P” special feature			
9	1	43T37385	Orifice Fitting
10	1	45M4R536	Lube Hose Assembly
11	1	30T35687	12 V Rocker Switch
12	1	36MA1005	Switch Bracket
13	1	36T36271	Face Plate
N.S.	2	19T36623	Cap Screw
N.S.	2	22T35140	Hex Nut
N.S.	2	21T37991	Lock Washer

Footnotes:

1. Allison TCM (Pin 43)

- Clutch shift PTO's require a connection to the Allison “PTO Enable Input” circuits. Check the vehicle dealer or body builder's information for this location.

2. Rocker Switch

- Red light in the rocker switch is to turn “ON” when the PTO is engaged and turn “OFF” when the PTO is disengaged.

3. Lube Pressure Connection

- An additional fitting(s) may need to be used for proper connection to the lubrication port in each transmission; refer to the PTO Installation & Operator's Manual (IN84-03) for more information.

4. Main Pressure Connection

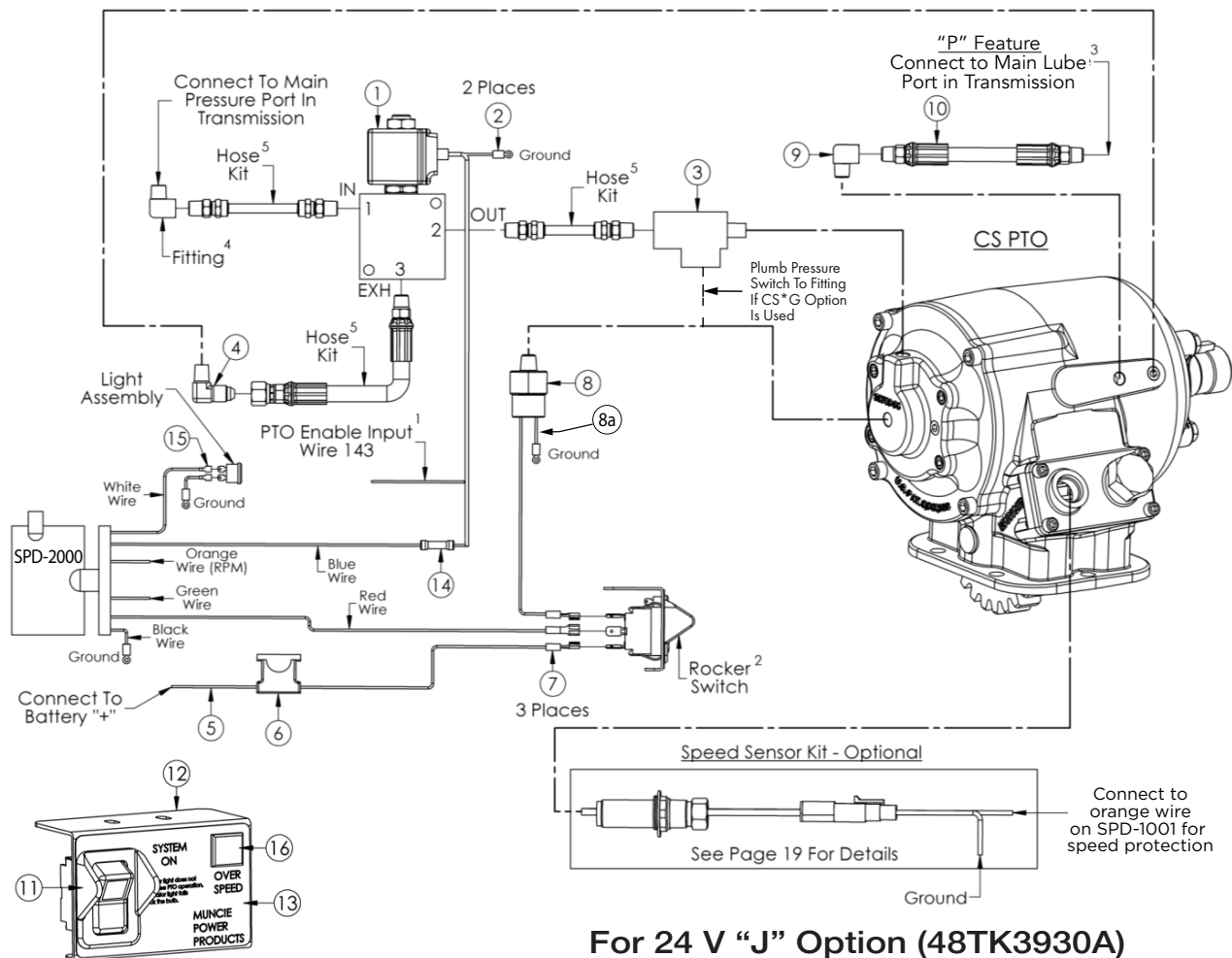
- An additional fitting(s) may need to be used for proper connection to the pressure port in each transmission refer to the PTO Installation & Operator's Manual (IN84-03) for more information.

5. Hose Kits

- Hydraulic hoses and hose ends are not supplied with the standard installation kit; order Muncie 131-2-0001 hose kit separately.

Electric/Hydraulic Shift System with System Protection Feature

48TK3927B (12 V – “H” Option) & 48TK3930A (24 V – “J” Option)



Switch Bracket Assembly

12 V - 30T36270

24 V - 30T36453

For 24 V “J” Option (48TK3930A)

Include items 12 and 13 and substitute item 1 with the 24 V solenoid valve block (35M24340B) and substitute item 13 with the 24 V rocker switch (30T35712). This kit also comes with the 24 V light assembly (32MSR24V) and the faceplate with light access (36M01006).

Overspeed

Faceplate with light access and overspeed light are not included in 30T36270 (12 V bracket assembly) and are to be ordered separately in kit 36TK4971. They are included in the 24 V kit (48TK5112 & 48TK4117)

ITEM	QTY.	PART NO.	DESCRIPTION
1	1	35M12340A	12 V Solenoid Valve
2	2	34M18009	Ring Terminal
3	1	44MB2252	Street Tee
4	1	43T35867	Fitting
5	1	37T42512	Wire (12 Ft.)
6	1	33T36299	Fuse Assembly
7	3	34M18250	Female Spade Connector (¼")
8	1	30T60228	Pressure Switch
8a	1	34T36941	Wiring Pigtail

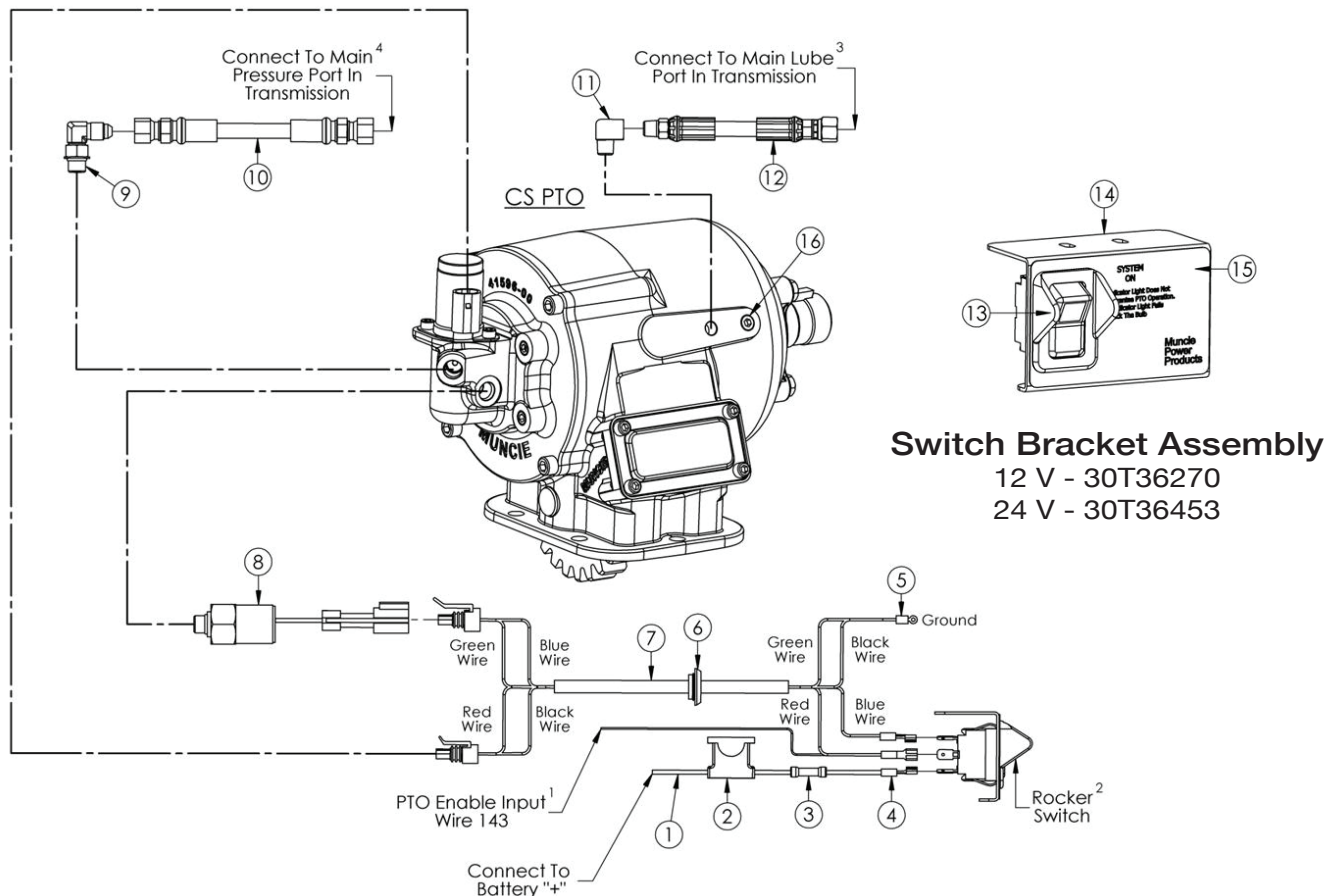
ITEM	QTY.	PART NO.	DESCRIPTION
Items 9 & 10 are included with the “P” special feature			
9	1	43T37385	Orifice Fitting
10	1	45M4R536	Lube Hose Assembly
11	1	30T35687	12 V Rocker Switch
12	1	36MA1005	Switch Bracket
13	1	36T36271	Face Plate
N.S.	2	19T36623	Cap Screw
N.S.	2	22T35140	Hex Nut
N.S.	2	21T37991	Lock Washer

Footnotes: See page 14 for footnotes 1, 2, 3, 4 & 5.

Electric/Hydraulic Shift System for Drop-in Solenoid Option

48TK5106 - 48TK5111 & 48TK5113 - 48TK5115 (12 V – “S” Option)

48TK5112 & 48TK5117 (24 V – “R” Option)



For 24 V “R” Option (48TK5112 & 48TK5117)

Include items 14 and 15 and substitute item 13 with the 24 V rocker switch (30T35712). This kit also comes with the 24 V light assembly (32MSR24V) and the faceplate with light access (36M01006).

48TK5104 (12V) & 48TK5105 (24V)			
ITEM	QTY.	PART NO.	DESCRIPTION
1	1	37T42512	Wire (12 Ft.)
2	1	33T36299	Fuse Assembly
3	1	34M18002	Butt Splice
4	1	34M18250	Female Spade Connector (1/4")
5	1	34M18009	Ring Terminal
6	1	37T35674	Grommet
7	1	34T40902	Wire Harness
8	1	30T60223	Pressure Switch
9	1	43M68014	Fitting
N.S.	1	34T43180	Allison Input Cable

ITEM	QTY.	PART NO.	DESCRIPTION
Items 9 & 10 are included with the “P” special feature			
10	1	45T38840	36" Hose Kit - 48TK5106/48TK5115
	1	45T39186	17" Hose Kit - 48TK5111/48TK5112
	1	45T36274	28" Hose Kit - 48TK5113/48TK5117
Items 11 & 12 are included with the “P” special feature			
11	1	43T37385	Orifice Fitting
12	1	45M4R536	Lube Hose Assembly
13	1	30T35687	12 V Rocker Switch
14	1	36MA1005	Switch Bracket
15	1	36T36271	Face Plate
16	1	25T21684	Pipe Plug (Included w/PTO)
N.S.	1	43T36445	Elbow Fitting (use as needed)

Footnotes:

1. Allison TCM (Pin 43)

- Clutch shift PTO's require a connection to the Allison “PTO Enable Input” circuits. Check the vehicle dealer or body builder's information for this location.

2. Rocker Switch

- Red light in the rocker switch is to turn “ON” when the PTO is engaged and turn “OFF” when the PTO is disengaged.

3. Lube Pressure Connection

- An additional fitting(s) may need to be used for proper connection to the lubrication port in each transmission; refer to the installation supplement to IN84-03 (I-3029) or the PTO Installation & Operator's Manual (IN84-03) for more information.

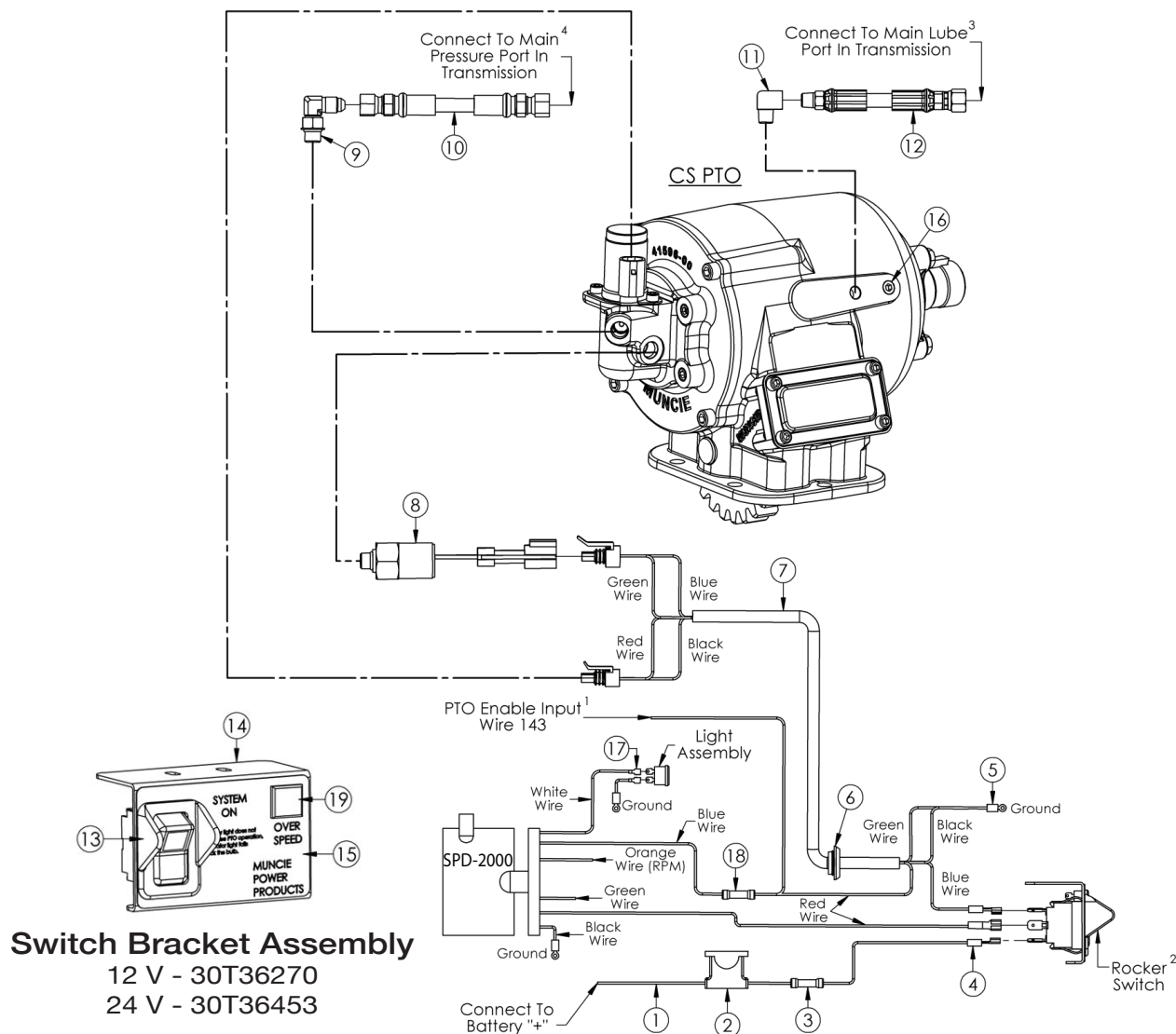
4. Main Pressure Connection

- An additional fitting(s) may need to be used for proper connection to the pressure port in each transmission refer to the installation supplement to IN84-03 (I-3029) or the PTO Installation & Operator's Manual (IN84-03) for more information.

Electric/Hydraulic Shift System with System Protection Feature (for Drop-in Solenoid Option)

48TK5106 - 48TK5111 & 48TK5113 - 48TK5115 (12 V – “S” Option)

48TK5112 & 48TK5117 (24 V – “R” Option)

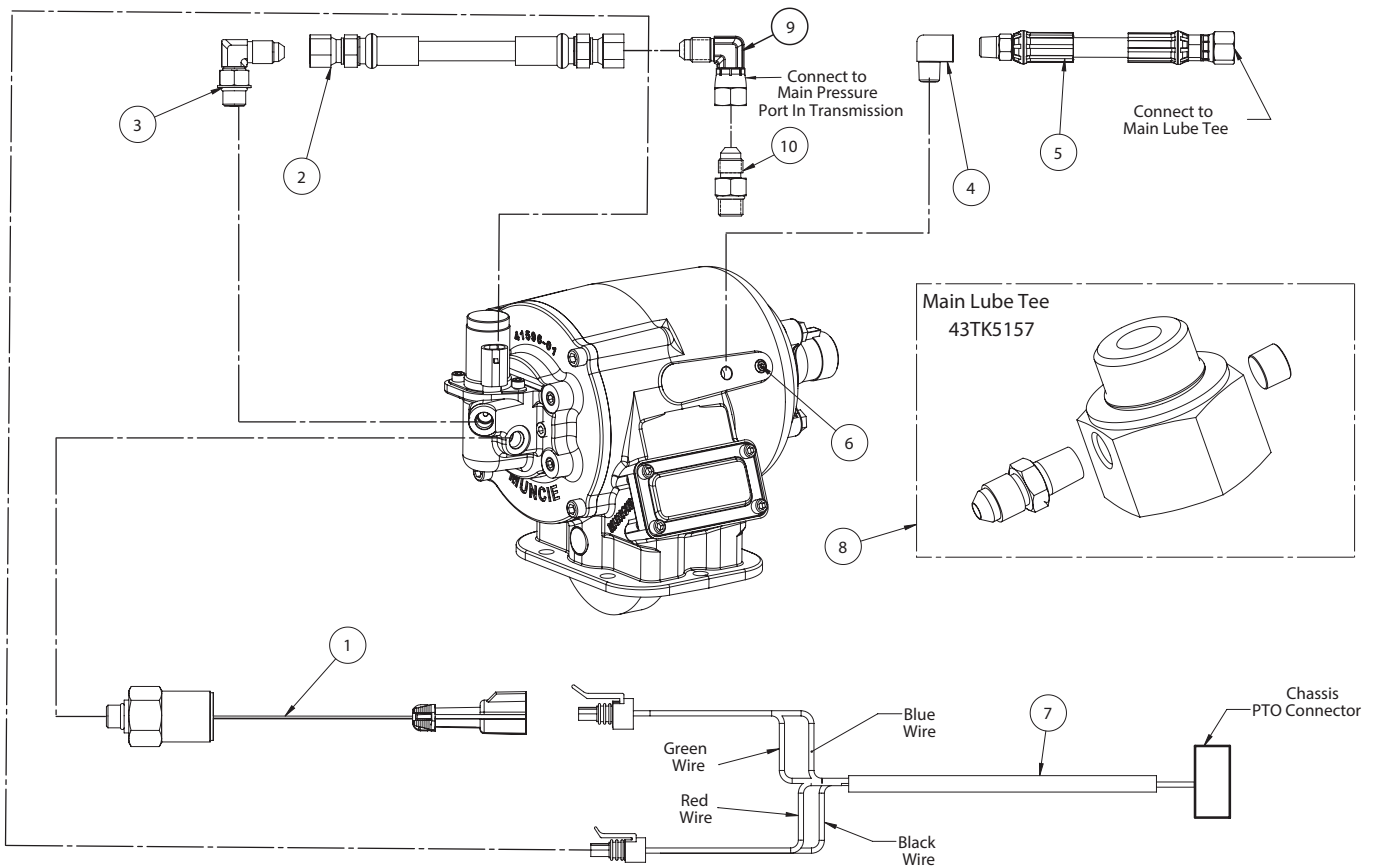


ITEM	QTY.	PART NO.	DESCRIPTION
1	1	37T42512	Wire (12 Ft.)
2	1	33T36299	Fuse Assembly
3	1	34M18002	Butt Splice
4	1	34M18250	Female Spade Connector (1/4")
5	1	34M18009	Ring Terminal
6	1	37T35674	Grommet
7	1	34T40902	Wire Harness
8	1	30T60223	Pressure Switch
9	1	43M68014	Fitting
10	1	45T38840	Hose Assembly (48TK5106 & 48TK5115)
	1	45T39186	Hose Assembly (48TK5111 & 48TK5112)
	1	45T36274	Hose Assembly (48TK5113 & 48TK5117)

ITEM	QTY.	PART NO.	DESCRIPTION
Items 11 & 12 are included with the "P" special feature			
11	1	43T37385	Orifice Fitting
12	1	45M4R536	Lube Hose Assembly
13	1	30T35687	12 V Rocker Switch
14	1	36MA1005	Switch Bracket
15	1	36M01006	Face Plate with Light Access
16	1	25T21684	Pipe Plug (Included w/PTO)
Items 15, 17, 18 & 19 are included in kit 36TK4971			
17	2	34M18187	Female Spade Connector (3/16")
18	1	34M18002	Butt Splice
19	1	32MSR12V	12 V Overspeed Light

Electric/Hydraulic “2” Shift System

48TK6495 (1 Arrangement – 07 Ratio), 48TK6496 (3 Arrangement – 07 Ratio),
48TK6497 (1 Arrangement), 48TK6498 (3 Arrangement)

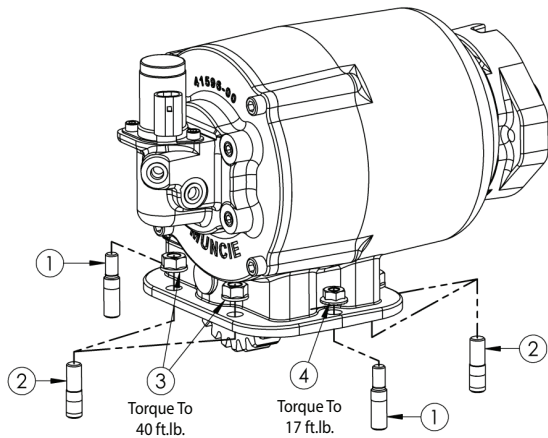


ITEM	PART NO.	DESCRIPTION	QUANTITY
1	30T60223	Pressure Switch	1
2	45T36274	28" Hose Assembly	1
	45T39186	17" Hose Assembly	1
3	43M68014	Fitting	1
4	43T37385	Orifice Fitting	1
5	43TK3934	Hose Kit	1
6	25T21684	Pipe Plug (Included w/PTO)	1
7	34T43466	GM Wiring Harness	1
8	43TK5157	Lube Tee Kit	1
9	43T36445	Elbow Fitting	1
10	43T36431	FA-Adapter	1
Not Shown	43M05522	Lube Fitting	1

KIT PART NUMBER			
48TK6495	48TK6496	48TK6497	48TK6498
X	X	X	X
X		X	
	X		X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X

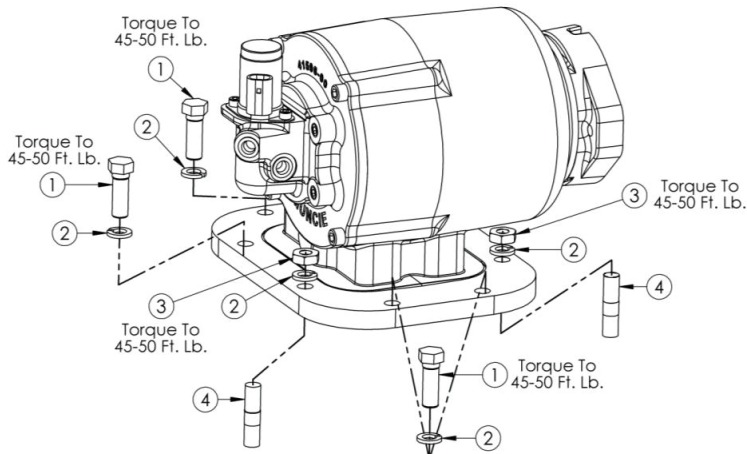
Feature Code “H”

QTY.	PART NO.	DESCRIPTION
HINO ACTIVATION KIT Requires “S” shift option CS6B-A67** 48TK5690 (ratio 03-05 or 48TK5692 (ratio 07)		
1	20TK4359	Stud Kit 03-05
	20TK4360	Stud Kit 07
1	25T21684	Pipe Plug
1	30T35687	Rocker Switch
1	30T60223	Pressure Switch
1	34T43770	2016 Hino Wire Harness
1	36MK3841	Safety Labels
1	43M68014	Lube Fitting
1	43TK3934	Hose Kit
1	43TK5157	Lube Tee
1	43T36431	Adapter
2	43T36445	Elbow Fitting
1	43T37385	Orifice Elbow
1	45T36274	Hose Assembly 28"
1	52TK5093	Gasket/Instruction Pack



Mounting Kits: 8-Bolt

ITEM	QTY.	PART NO.	DESCRIPTION
20MK8800 - Standard: Used with CS8S & CS8D			
1	6	19M44138	Cap Screw
2	8	21ML4375	Lock Washer
3	2	22MX4420	Nut
4	2	20M44175	Stud
20MKM802 - Metric: Used with CS8B & CS8C			
2	8	21ML4375	Lock Washer
3	8	22MX4420	Nut
4	8	20M47055	Stud

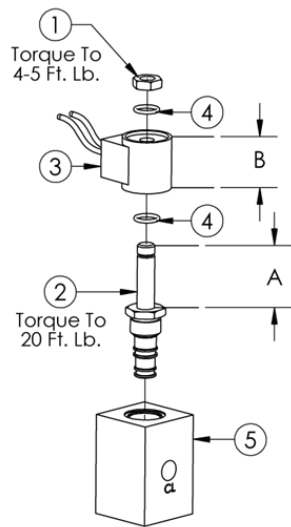


Mounting Kits: 6-Bolt

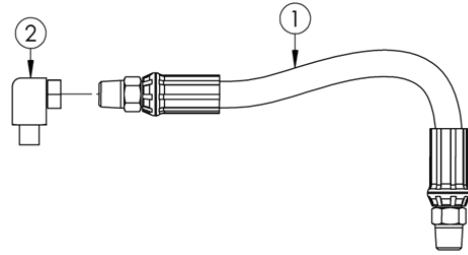
ITEM	QTY.	PART NO.	DESCRIPTION
20TK4418 - Standard: Used with CS6S, CS6D & CS6N-S71/S73			
1	2	20T37032	Step Stud
2	4	20M38150	Stud
3	4	22T39282	Spirallock Nut
4	2	22T37605	Whiz-Lock Nut
N.S.	1	MC00-02	Instruction Card
20TK4359 - Metric: Used with CS6B & CS6C (Not A67)			
1	2	20T64083	Stud Alignment
2	4	20T64087	Metric Stud
3	6	22T39282	Nut
N.S.	1	MC00-02	Instruction Card
20TK4360 - Metric: Used with CS6B-***07 (Not A67)			
1	2	20T38391	Step Stud
2	4	20M39045	Stud
3	4	22T39282	Spirallock Nut
4	2	22T37605	Whiz-Lock Nut
NS.	1	MC00-02	Instruction Card
20TK6335 - Metric: Used with CS6B-I84**			
1	2	20T64030	Alignment Stud
2	4	20T64008	Stud
3	6	22T39282	Spirallock Nut
N.S.	1	MC18-01	Instruction Card
20TK4046 - Metric: Used with CS6F-F84**			
1	2	20T37952	Step Stud
2	4	20M39040	Stud
3	4	22T39282	Spirallock Nut
4	2	22T37605	Whiz-Lock Nut
N.S.	1	MC00-02	Instruction Card
N.S.	1	13M51717	Loctite Gasket Eliminator
20TK6389 - Metric: Used with 6S6B-A67 (03-05)			
1	2	20T64076	Alignment Stud
2	4	20T64077	Stud
3	6	22T39282	Nut
4	4	21T64303	Flat Washer
N.S.	1	MC18-04	Instruction Card
20TK6390 - Metric: Used with CS6B-A6707			
1	2	20T64085	Alignment Stud
2	4	20T64089	Stud
3	6	22T39282	Nut
4	4	21T64303	Flat Washer
N.S.	1	MC18-04	Instruction Card

Accessory Kits

Remote Solenoid Block Assembly 35M12340A



Pressure Lube Kit 43TK3934



ITEM	QTY.	PART NO.	DESCRIPTION
1	1	45M4R536	Hose Assembly - Standard
2	1	43M05522	Elbow

12 V Cartridge Assembly 35T40087

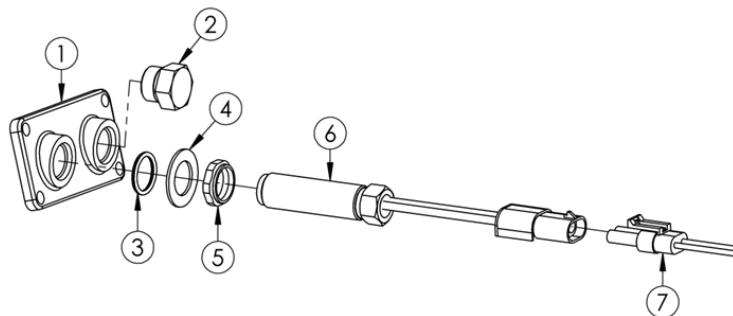
ITEM	QTY.	PART NO.	DESCRIPTION
1	1	22T39429	Nut
2	1	35M12340DS	12 V Coil
3	1	N/A	Stem
4	2	12T39408	O-Ring
5	1	N/A	Block

Dim A – 1.89

Dim B – 1.77

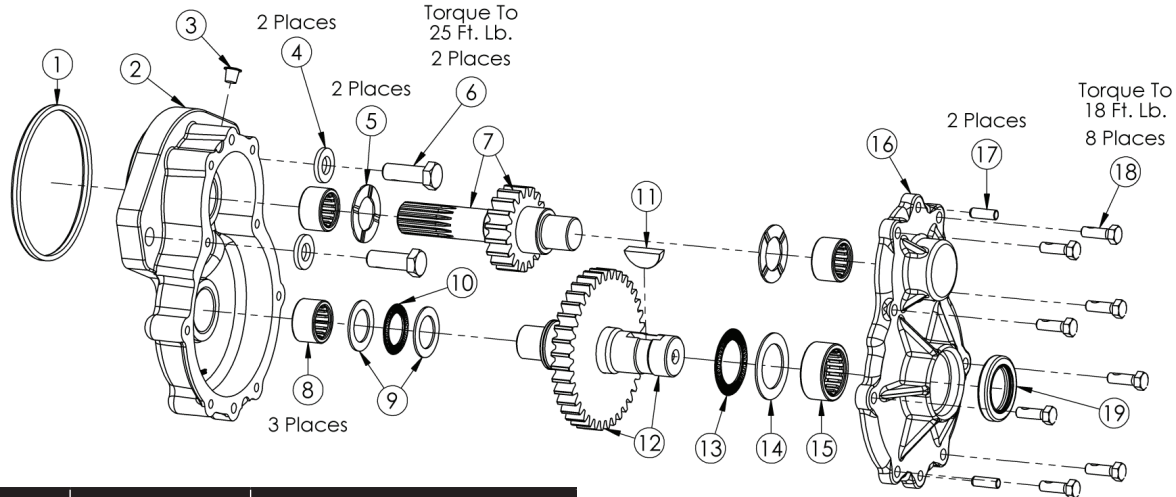
Items with an N/A part number are
NOT sold as separate items.

Speed Sensor Kit 16TK3833 (Option C, D, R, & S)



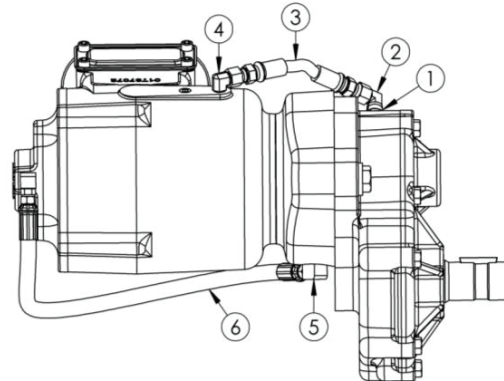
ITEM	QTY.	PART NO.	DESCRIPTION
1	1	16T35523	Mag Pickup Cover
2	1	25T35999	Plug
3	1	21T41900	Thread Seal Washer
4	1	21T35603	Flat Washer
5	1	21T35109	Jam Nut
6	1	31T35108	Mag Pickup
7	1	34MA1415	Wiring Harness

CS Low-Box CSGB-200-125 Exploded



ITEM	QTY.	PART NO.	DESCRIPTION
1	1	12T36872	O-Ring
2	1	01T40900	Low-Box Housing
3	1	25T34029	Cap Plug
4	2	21T36002	Washer
5	2	21T63591	Thrust Plate
6	2	19T35998	Cap Screw
7	1	07TA4956	Input Assembly
8	3	10T35243	Needle Bearing
9	2	21T35242	Thrust Race
10	1	10T27216	Bearing
11	1	26T01627	Woodruff Key
12	1	06TA3807	Output Shaft Assembly
13	1	10T35239	Thrust Bearing
14	1	21T35241	Thrust Race
15	1	10T35253	Needle Bearing
16	1	15T35209	Low-Box Cover
17	2	26T35232	Pin
18	8	19T32740	Hex Head Cap Screw
19	1	11T65108	Seal
N.S.	1	13T35219	Gasket, Housing

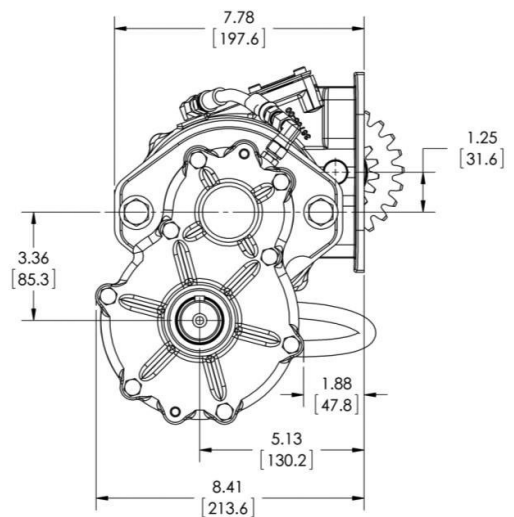
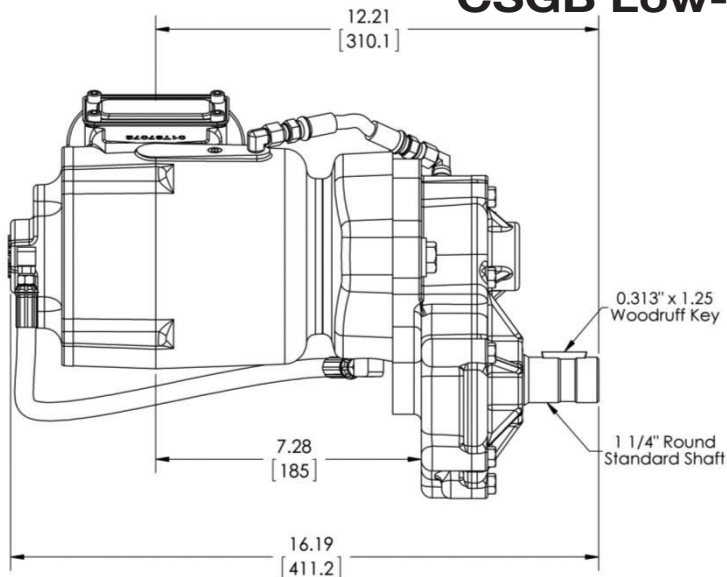
CSGB-200-125 Lubrication Kit 43TK5020



ITEM	QTY.	PART NO.	DESCRIPTION
1	1	43T37503	JIC Straight Fitting
2	1	43T36445	JIC Elbow Fitting
3	1	45T42192	Lube Hose
4	1	43T35867	JIC Elbow Fitting
5	*	43T37385	Orifice Elbow
6	*	43TK3934	Lubrication Hose Kit

*Supplied with PTO

CSGB Low-Box

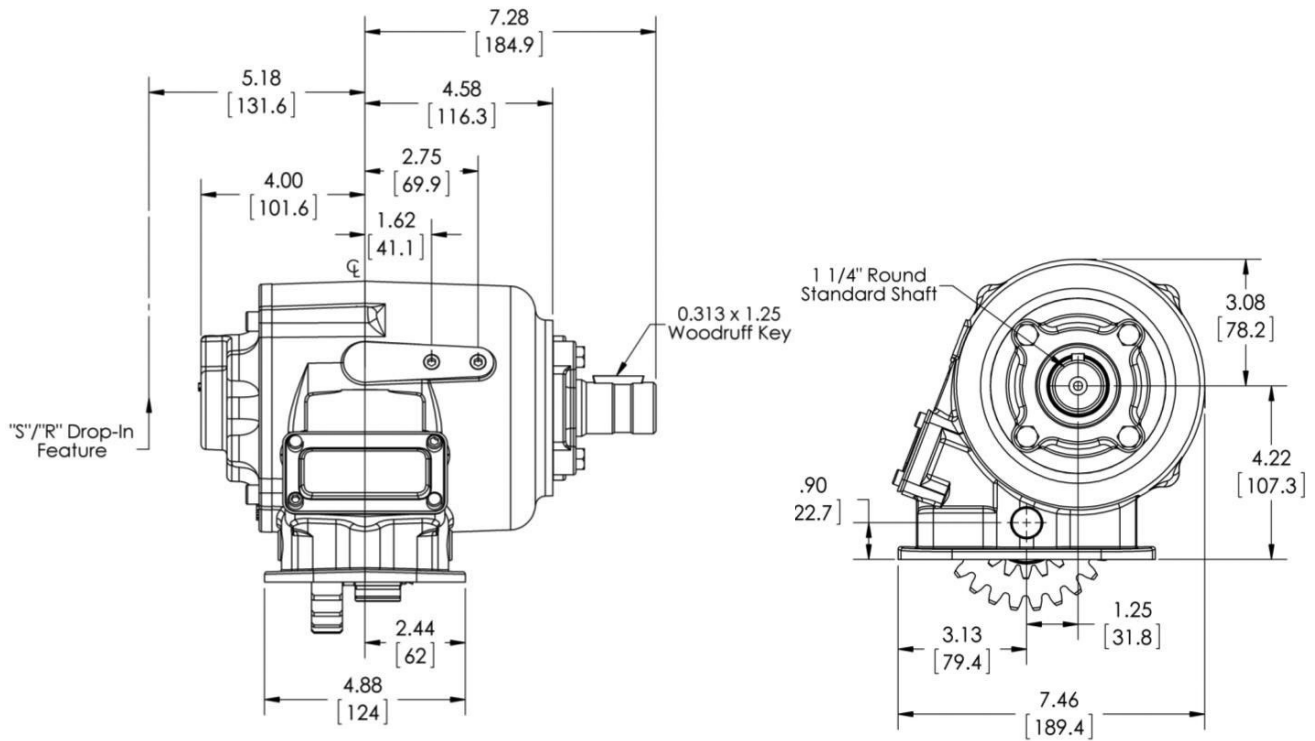


MUNCIE POWER PRODUCTS, INC.

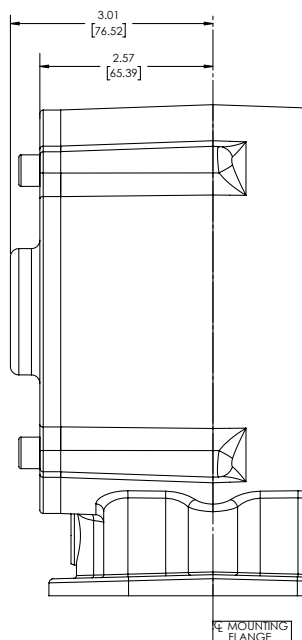
Dimensions

Inches [mm]

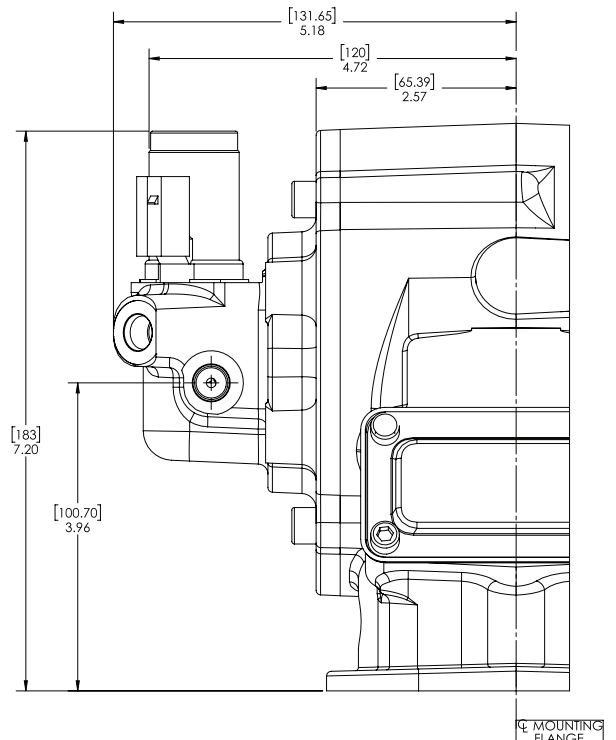
CS6* "B" Output Option – 1 1/4" Round Keyed



"G" Rear Cover Option

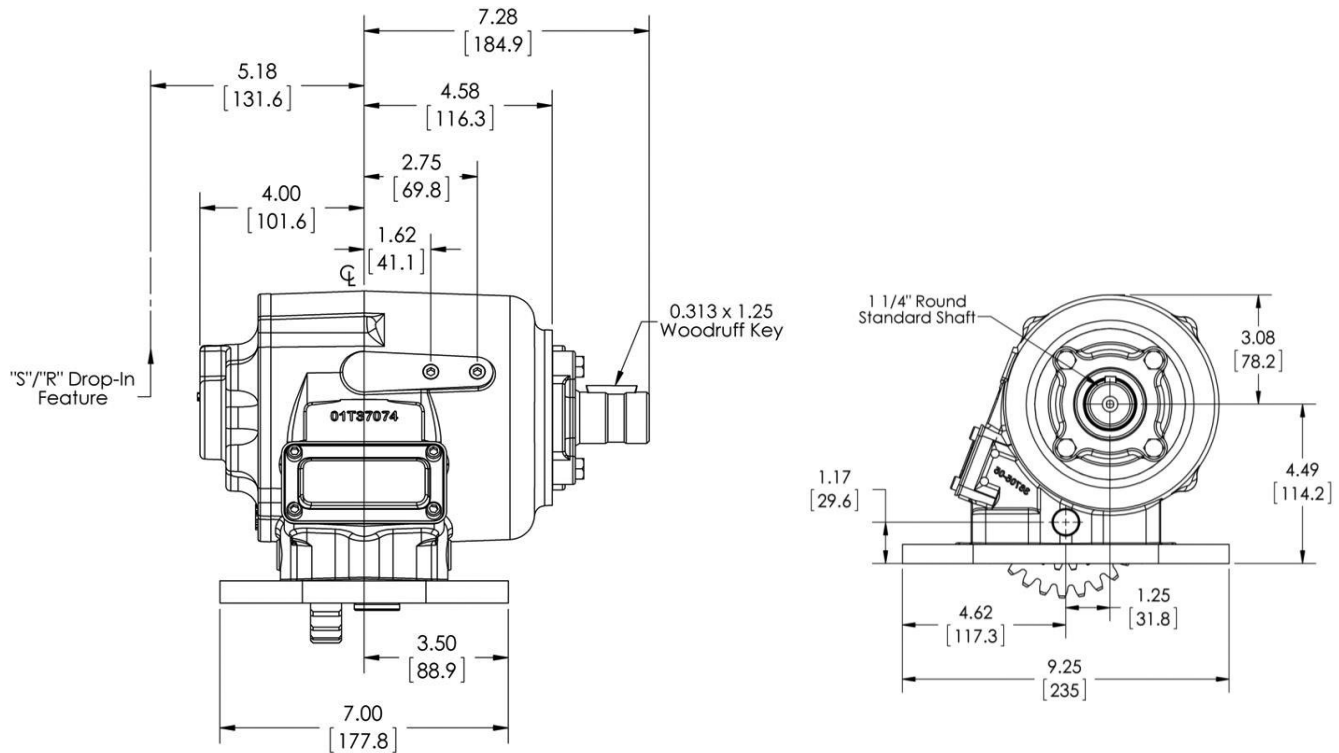


Drop-in Solenoid Rear Cover Option

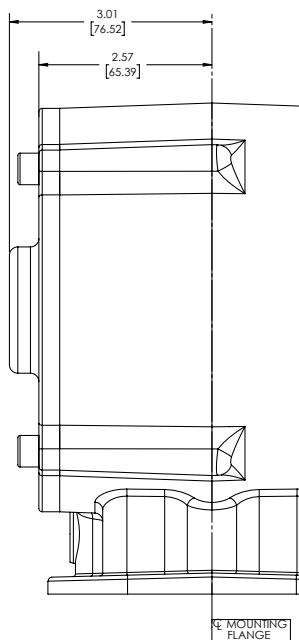


Dimensions *(continued)*

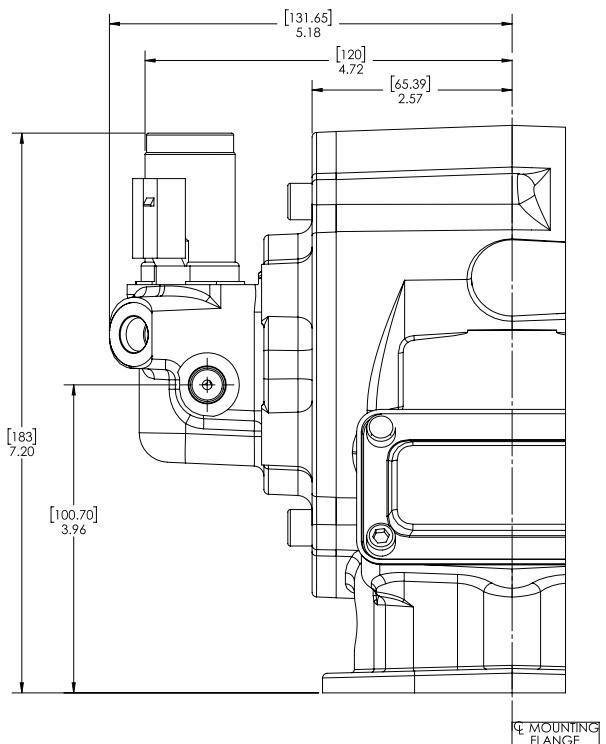
CS8* "B" Output Option – 1 1/4" Round Keyed



"G" Rear Cover Option

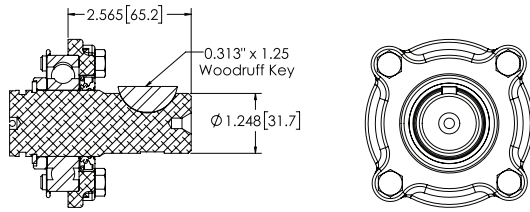


Drop-in Solenoid Rear Cover Option

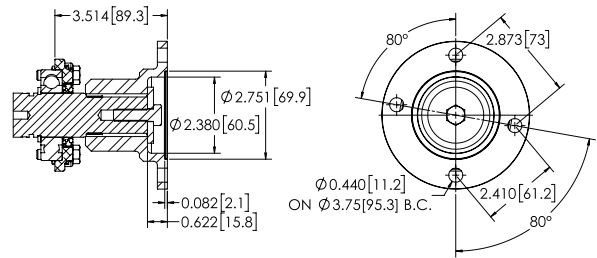


Output Options

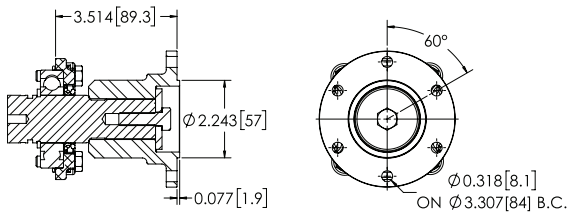
“B” Output – 1.250" Rnd Shaft w/ $\frac{5}{16}$ " Key



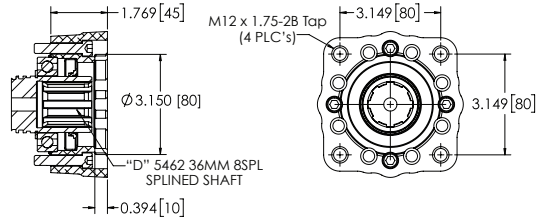
“C” Output – 1410 Companion Flange



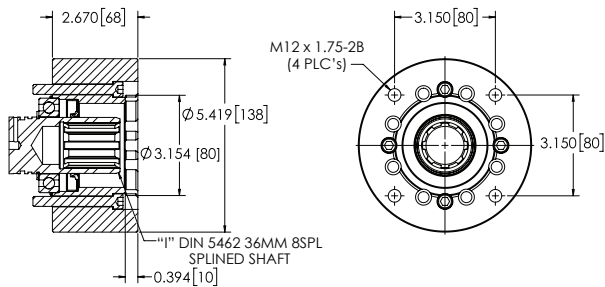
“2” Output – DIN 100 Companion Flange



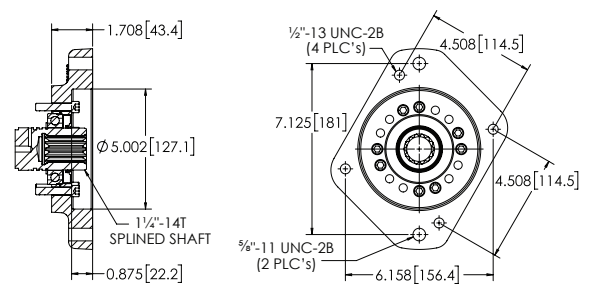
“D” Output – DIN 5462 Flange (Euro)



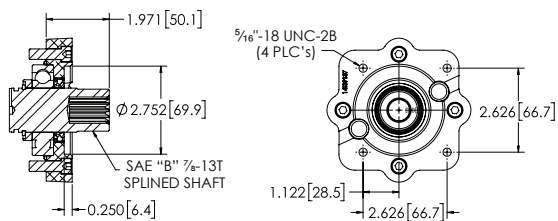
“I” Output – DIN 5462 Flange



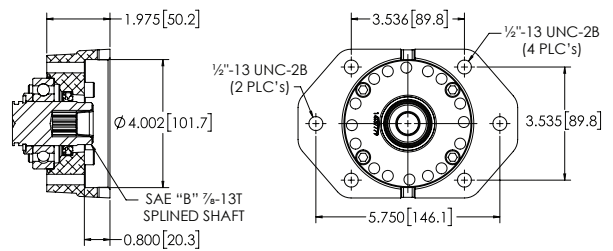
“E” Output – SAE “C” 2/4-Bolt Flange



“G” Output – Special 4-Bolt Dana Flange

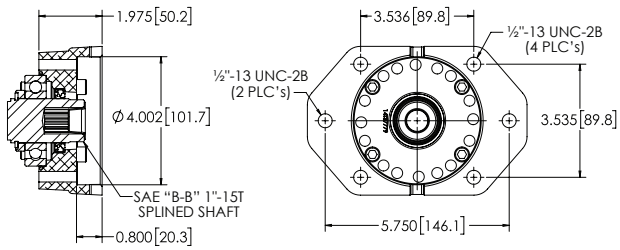


“K” Output – SAE “B” 2/4-Bolt Flange

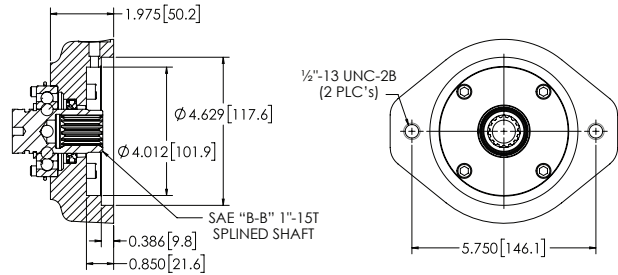


Output Options *(continued)*

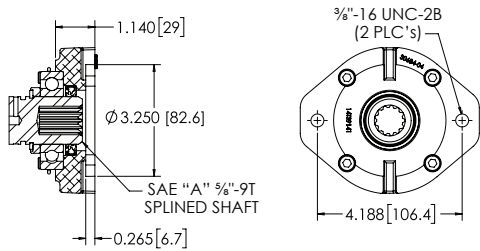
“P” Output – SAE “B” 2/4-Bolt Flange



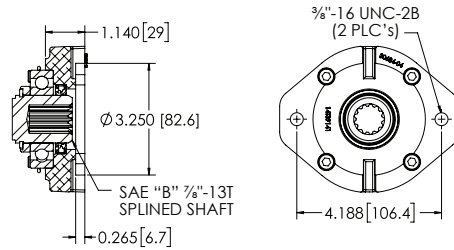
“L” Output – Special Flange



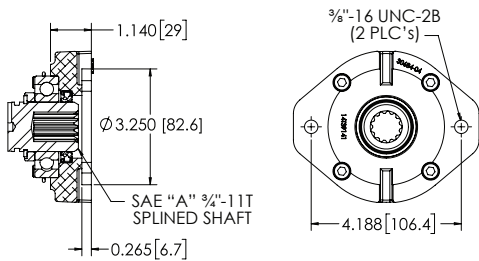
“R” Output – SAE “A” 2-Bolt Flange



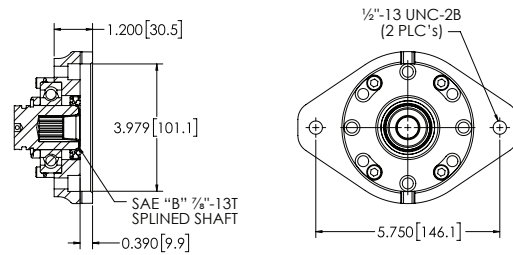
“Q” Output – SAE “A” 2-Bolt Flange



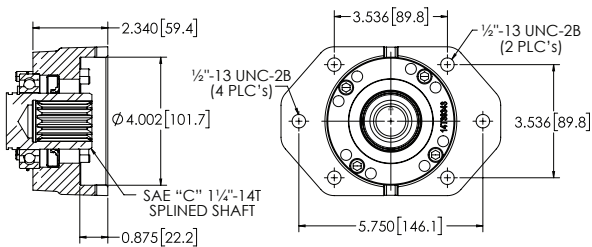
“T” Output – SAE “A” 2-Bolt Flange



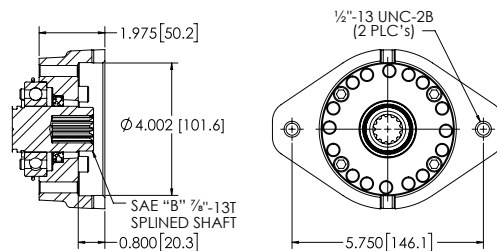
“S” Output – SAE “B” 2-Bolt Flange



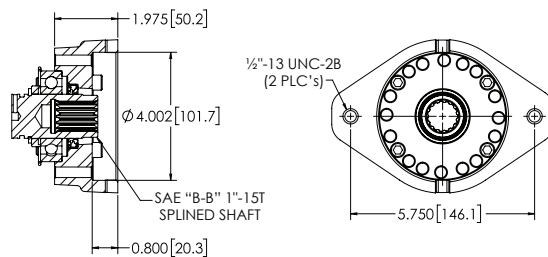
“Z” Output – SAE “B” 2/4-Bolt Flange



“6” Output – SAE “B” 2-Bolt Flange



“7” Output – SAE “B” 2-Bolt Flange



Gasket Kits

CS6GSK - CS6 Gasket Kit

PART NO.	QTY.	DESCRIPTION
11T66017	1	Seal
11T65108	1	Shaft Seal
12T34003	1	O-Ring
12T35774	2	O-Ring
12T35949	2	O-Ring
12T36054	1	O-Ring
12T36471	2	O-Ring
12T36472	1	O-Ring
12T36751	1	O-Ring
13M35091	1	Gasket
13M35092	1	Gasket
16T41119	1	Cover, Backlash
19T41118	4	Socket Head Cap Screw

CS8GSK - CS8 Gasket Kit

PART NO.	QTY.	DESCRIPTION
11T66107	1	Seal
11T65108	1	Shaft Seal
12T34003	1	O-Ring
12T35774	2	O-Ring
12T35949	2	O-Ring
12T36054	1	O-Ring
12T36471	2	O-Ring
12T36751	1	O-Ring
13M35151	1	Gasket
13M35152	1	Gasket
16T41119	1	Cover, Backlash
19T41118	4	Socket Head Cap Screw

CS6 Rebuild Kits

CS6RBK03 - CS6 Rebuild Kit (Ratio 03 & 04)

PART NO.	QTY.	DESCRIPTION
CS6GSK	1	CS6 Gasket Kit (less 12T35774)
10T21017	2	Bearing
10T34006	2	Bearing
10T34620	2	Thrust Bearing
10T36285	1	Bearing
18T34622	1	Spacer
21T29017	2	Thrust Washer
21T34621	4	Thrust Washer
21T36511	1	Washer
13M35091	1	Gasket
13M35092	1	Gasket
13T63989	1	Gasket
24T27240	1	Snap Ring
24T35480	2	Snap Ring
24T36470	1	Snap Ring
24T36894	1	Snap Ring
27T36173	4	Spring
27T38791	1	Spring
49T33563	7	Spacer DISC CS6/8
49T33564	8	Friction Disc F/PWR

CS6RBK05 - CS6 Rebuild Kit (RATIO 05-14 (PRE-2012))

PART NO.	QTY.	DESCRIPTION
CS6GSK	1	CS6 Gasket Kit (less 12T35949)
10T21017	2	Bearing
10T35776	2	Bearing
10T36285	1	Bearing
13M35091	1	Gasket
13M35092	1	Gasket
13T63989	1	Gasket
18T35781	1	Cone Spacer (SC306)
18T36229	1	Cone Spacer (SC306)
18T36230	1	Cone Spacer (SC306)
21T29017	2	Thrust Washer
21T36511	1	Washer
24T27240	1	Snap Ring
24T35480	2	Snap Ring
24T36470	1	Snap Ring
24T36894	1	Snap Ring
27T36173	4	Spring
27T38791	1	Spring
49T33563	7	Spacer Disc CS6/8
49T33564	8	Friction Disc F/P

CS6RBK05A - CS6 Rebuild Kit (Ratio 05 & 14) (2012+)

PART NO.	QTY.	DESCRIPTION
CS6RBK05*	1	CS6 Rebuild Kit
18T41439	1	Thrust Washer
18T41440	1	Thrust Washer
18T41441	1	Thrust Washer
18T41442	1	Thrust Washer
18T41443	1	Thrust Washer
18T41452	1	Thrust Washer

*Less - 12T36472, 18T35781, 18T36229, 18T36230

CS6RBKA6805 - CS6 Rebuild Kit

PART NO.	QTY.	DESCRIPTION
CS6RBK05	1	CS6 Rebuild Kit (Ratio 05-14)
10T34006	2	Bearing
10T34620	2	Thrust Bearing
21T34621	4	Thrust Washer

CS6 Rebuild Kits

CS6RBK03IZ - CS6 Rebuild Kit (Ratio 03 & 04) (OUTPUT I, Z, & D)

PART NO.	QTY.	DESCRIPTION
CS6RBK03*	1	CS6 Rebuild Kit (Ratio 03 & 04)
10T38248	1	Bearing, Output
11T64141	1	Oil Seal
12T36053	2	O-Ring
13M35151	1	Gasket
13M35152	1	Gasket
24T36040	1	Snap Ring
24T37951	1	Retaining Ring
27T36112	1	Spring
*Less - 10T21017, 11T37790, 12T36471, 13M13541, 13M35091, 13M35092, 24T36470, 27T38791		

CS6RBK05IZ - CS6 Rebuild Kit (RATIO 05-14 (OUTPUT I, Z, & D)

PART NO.	QTY.	DESCRIPTION
CS6RBK05*	1	CS6 Rebuild Kit (Ratio 05-14)
10T38248	1	Bearing, Output
11T64141	1	Oil Seal
12T36053	2	O-Ring
13M35151	1	Gasket
13M35152	1	Gasket
24T36040	1	Snap Ring
24T37951	1	Retaining Ring
27T36112	1	Spring
*Less - 10T21017, 11T37790, 12T36471, 13M35091, 13M35092, 24T36470, 27T38791		

CS8 Rebuild Kits

CS8RBK03 - CS8 Rebuild Kit (Ratio 03 & 04)

PART NO.	QTY.	DESCRIPTION
CS8GSK	1	CS8 Gasket Kit (Less 12T35774)
10T21017	2	Bearing
10T34006	2	Bearing
10T34620	2	Thrust Bearing
10T36285	1	Bearing
21T29017	2	Thrust Washer
21T34621	4	Thrust Washer
21T36511	1	Washer
24T35480	2	Snap Ring
24T36470	1	Snap Ring
24T36894	1	Snap Ring
27T36112	1	SPRING
27T36173	4	SPRING
49T33563	7	Spacer Disc
49T33564	8	Friction Disc

CS8RBK05 - CS8 Rebuild Kit (RATIO 05-14) (PRE-2012)

PART NO.	QTY.	DESCRIPTION
CS8GSK	1	CS8 Gasket Kit (Less 12T35949)
10T21017	2	Bearing
10T35776	2	Bearing
10T36285	1	Bearing
12T36472	1	O-Ring
18T35781	1	Cone Spacer
18T36229	1	Cone Spacer
18T36230	1	Cone Spacer
21T29017	2	Thrust Washer
21T36511	1	Washer
24T27240	1	Snap Ring
24T35480	2	Snap Ring
24T36470	1	Snap Ring
24T36894	1	Snap Ring
27T36112	1	Spring
27T36173	4	Spring
49T33563	7	Spacer Disc
49T33564	8	Friction Disc

CS8RBK05A - CS8 Rebuild Kit (Ratio 05 & 14) (2012+)

PART NO.	QTY.	DESCRIPTION
CS8RBK05*	1	CS8 Rebuild Kit (Ratios 05-14)
18T41439	1	Thrust Washer
18T41440	1	Thrust Washer
18T41441	1	Thrust Washer
18T41442	1	Thrust Washer
18T41443	1	Thrust Washer
18T41452	1	Thrust Washer
*Less - 12T36472, 18T35781, 18T36229, 18T36230		

CS8 Rebuild Kits continued

CS8RBK03IZ – CS8 Rebuild Kit (Ratio 03 & 04) (OUTPUT I, Z, & D)

PART NO.	QTY.	DESCRIPTION
CS8RBK03*	1	CS8 Rebuild Kit (Ratios 03 & 04)
10T38248	1	Bearing, Output
11T64141	1	Oil Seal
12T36053	2	O-Ring
13M35151	1	Gasket
13M35152	1	Gasket
24T36040	1	Snap Ring
24T37951	1	Snap Ring
27T36112	1	Spring
*Less - 11T37790, 12T36471, 13M13541, 13M35091, 13M35092, 24T36470, 27T38791		

CS8RBK05IZ – CS8 Rebuild Kit (RATIO 05-14 (OUTPUT I, Z, & D)

PART NO.	QTY.	DESCRIPTION
CS8RBK05*	1	CS8 Rebuild Kit (Ratios 05-14)
10T38248	1	Bearing, Output
11T64141	1	Oil Seal
12T36053	1	O-Ring
24T36040	1	Snap Ring
24T37951	1	Snap Ring
*Less - 11T37790, 12T36471, 24T36470		

CB6/8 Gasket & Rebuild Kits

CB6GSK – CB6 Gasket Kit

PART NO.	QTY.	DESCRIPTION
CS6GSK*	1	CS6 Gasket Kit (Less 12T36054)
12T35343	2	O-Ring
12T39967	1	O-Ring

CB8GSK – CB8 Gasket Kit

PART NO.	QTY.	DESCRIPTION
CS8GSK*	1	CS8 Gasket Kit
12T35343	2	O-Ring
12T39967	1	O-Ring

CB6RBK03 – CB6 Rebuild Kit (Ratio 03 & 04)

PART NO.	QTY.	DESCRIPTION
CS6RBK03*	1	CS6 Rebuild Kit (Less 12T36472)
12T35343	2	O-Ring
12T39967	1	O-Ring
24T24315	1	Snap Ring
27T40389	1	Spring

CB8RBK03 – CB8 Rebuild Kit (Ratio 03 & 04)

PART NO.	QTY.	DESCRIPTION
CS8RBK03*	1	CS8 Rebuild Kit
18T34622	1	Spacer
27T40389	1	Spring

CB6RBK05 – CB6 Rebuild Kit (Ratio 05 & 14)

PART NO.	QTY.	DESCRIPTION
CS6RBK05*	1	CS6 Rebuild Kit (Less 12T36472)
12T35343	2	O-Ring
12T39967	1	O-Ring
24T24315	1	Snap Ring
27T40389	1	Spring

CB8RBK05 – CB8 Rebuild Kit (Ratio 05 & 14)

PART NO.	QTY.	DESCRIPTION
CS8RBK05*	1	CS8 Rebuild Kit (Less 12T36472)
12T35343	2	O-Ring
12T39967	1	O-Ring
24T24315	1	Snap Ring
27T40389	1	Spring

CB6RBK05A – CB6 Rebuild Kit (Ratio 05 & 14) (2012+)

PART NO.	QTY.	DESCRIPTION
CB6RBK05*	1	CB6 Rebuild Kit
18T41439	1	Thrust Washer
18T41440	1	Thrust Washer
18T41441	1	Thrust Washer
18T41442	1	Thrust Washer
18T41443	1	Thrust Washer
18T41452	1	Thrust Washer
*Less - 18T35781, 18T36229, 18T36230		

CB8RBK05A – CB8 Rebuild Kit (Ratio 05 & 14) (2012+)

PART NO.	QTY.	DESCRIPTION
CB8RBK05*	1	CB8 Rebuild Kit
18T41439	1	Thrust Washer
18T41440	1	Thrust Washer
18T41441	1	Thrust Washer
18T41442	1	Thrust Washer
18T41443	1	Thrust Washer
18T41452	1	Thrust Washer
*Less - 18T35781, 18T36229, 18T36230		

The CS6 & CS8 PTOs include mounting kit, special shim/gasket, wiring harness, dash bracket kit, and installation instructions. Additional components may be necessary for proper installation. Please refer to application catalog and read and understand the instruction manual. This installation does not require any special tools. The PTO is available with an optional pulse generator pickup for use with the Muncie Power digital tachometer 38MK2000 (request MP92-04) or the SPD-2000 Muncie Power overspeed switch. The SPD-2000 is designed to control the engagement speed and provide overspeed protection of the PTO. Contact your Muncie Power Products Application Specialist for assistance with these options.



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