



TG SERIES KIT PROGRAM

Stocking the Muncie Powerflex® PTO in a kit form can reduce your inventory requirements. To use the program decide on the correct model number of the PTO from the application catalog and assemble using the tables below.

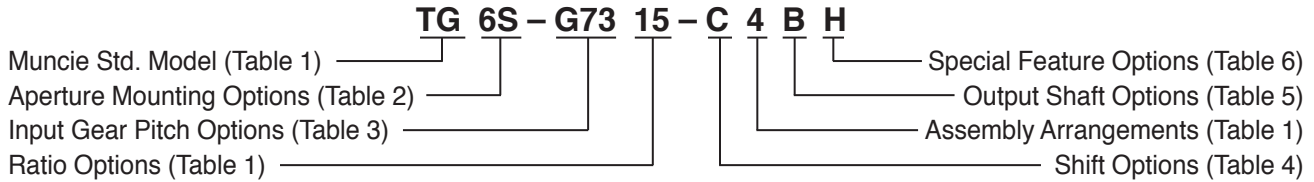


TABLE 1 MUNCIE STD. MODEL W/RATIO OPTIONS – LESS SHIFTER & INPUT GEAR

Part No.						
TG6S-Kit 04 – X * # X	* Assembly Arrangements: (1, 2, 3 or 4)	The PTO application catalog typically shows the arrangement for PTOs with the output shaft pointed to the rear and below the centerline of the opening. The TG Kit should be stocked in popular arrangements to minimize the need to physically rearrange a PTO.				
TG6S-Kit 05 – X * # X						
TG6S-Kit 06 – X * # X						
TG6S-Kit 07 – X * # X						
TG6S-Kit 08 – X * # X						
TG6S-Kit 09 – X * # X						
TG6S-Kit 12 – X * # H				# Output Shaft Options: (Table 5)	The TG Kit should be stocked in the popular output shafts to minimize the need to change output. Flange Kits shown in Table 5 should be stocked for the uncommon assemblies used.	
TG6S-Kit 13 – X * # H						
TG6S-Kit 15 – X * # H						
TG6S-Kit 18 – X * # H						
Ratio Sets		06 Ratio — 02T34440 (31T)	09 Ratio — 02T34398 (26T)	15H — 02T39172 (20T)		
		04T34441 (19T)	04T34399 (24T)	04T34598 (29T)		
04 Ratio — 02T34278 (36T)	07 Ratio — 02T34272 (29T)	04T34271 (21T)	12H — 02T35162 (23T)	18H — 02T34601 (18T)		
04T34277 (13T)	08 Ratio — 02T35185 (26T)	04T35186 (23T)	04T35155 (26T)	04T34605 (31T)		
05 Ratio — 02T34276 (34T)	04T34275 (16T)	04T35186 (23T)	13H — 02T35362 (21T)			
			04T35363 (27T)			

TABLE 2 TG APERTURE MOUNTING OPTIONS

Part No.	Part No.
6S –SAE 6-Bolt Std. Mtg. – Use TG6S-Kit	8S –SAE 8-Bolt Std. Mtg. – Use TG8S-Kit
6D –SAE 6-Bolt Non-Std. Mtg. – Use TG6S-Kit. Input gear design will change mounting depth of PTO. This is <u>NOT</u> a Housing change.	8D –SAE 8-Bolt Non-Std. Mtg. – Use TG8S-Kit Input gear design will change the mounting depth of the PTO. This is <u>NOT</u> a Housing change.
6N –Non-Standard Housing*	8M –SAE 8-Bolt Extra Deep Mount – This type is not stocked as a kit. Stock the special housing (01T35032) then change the housing as needed.
6A –SAE 6-Bolt Std. Mtg. w/29TK3863 – Use TG6S-Kit and 03T35730 (N56) gear only.	8B –Same as 8S, use metric Stud Kit 20MKM800 (RL8), 20MKM801 (TG, SH8, CS8), or 20MKM802 (82, or 83).
6B –Same as 6S, replace Stud Kit with metric 20MKM602.	8C –Same as 8D – Use metric Stud Kit 20MKM801 (TG, CS8), or 20MKM802 (82).
6C –Same as 6D, replace Stud Kit with metric 20MKM602.	8K –Same as 8D without Stud Kit.
6K –Same as 6D without Stud Kit.	8L –Same as 8S without Stud Kit.
6L –Same as 6S without Stud Kit.	
6F –Non-Standard Housing#	

* Not sold as kit w/o gear. Can only be used w/03T35350 (I85), 03T35540 (S71) or 03T37918 (S73).
 # Not sold as kit without gear. Can only be used w/03T37740 (F84).

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TABLE 3

TG INPUT GEAR PITCH OPTIONS

Part No.	Pitch	Part No.	Pitch	Notes:
03T38783 (30T) ⁹	A69	03T36591 (27T)	N92	1 When using this gear substitute stud kit 20MKM602 (metric) for the one in PTO kit. 2 With this gear substitute stud kit 20MKM104 (Metric)-R68 or 20MKM105 (Metric)-R85 for the one in PTO Kit. 3 With this gear a special housing (01T35342) is used. 4 Requires the use of 13M13541 when used with 04 ratio or 05 ratio on Allison Transmissions. 5 Requires the use of a special shift cover which is supplied when ordered with this kit number (cable shift only). 6 With this gear a special housing (01T37765 w/(2) 26T37992 pins), a stud kit 20TK4049 (metric), and 52TK4113 packet is used. Use of other housing is not approved. 7 Input gear includes the ratio gear, for constant engage only. 8 Requires 23M60270, 20MKM604, 52TK4470, and special shifter and collar. 9 Special housing 01T35342 (N) and stud kit 20MKM602. 10 Use 15MK33977 clearance kit on closed end of PTO. Sold Separately. 11 Add 36M3566TC visor instruction. 12 13M51717 tube, gasket eliminator, is to be included. 13 Requires adapter plate kit 29TK3863. 14 Include Special Lube instructions MC94-02.
03T34810 (18T)	C57	03T35360 (24T) ³	R68	
03T34452 (23T)	C60	03T34286 (21T)	S60	
03T34454 (20T)	C61	03T96746 (22T)	S61	
03T34453 (24T)	C70	03T38184 (21T)	S63	
03T34455 (28T)	C76	03T94243 (26T)	S68	
03T94192 (42T)	F10	03T34287 (24T)	S70	
03T40079 (37T)	D94	03T35540 (29T) ⁴	S71	
03T35189 (42T)	F11	03T37918 (28T) ⁴	S73	
03T35031 (21T)	F61	03T37016 (32T)	S80	
03T35613 (25T)	F62	03T37015 (36T)	S89	
03T35024 (24T)	F63	03T36552 (21T)	T61	
03T35025 (25T)	F65	03T38546 (29T)	T81	
03T38140 (24T)	F66	03T35650 (28T)	T82	
03T37657 (26T)	F70	03T34451 (20T)	U57	
03T96626 (29T)	F75	03T34285 (24T) ⁵	U60	
03T37740 (28T) ⁷	F84	03T34732 (24T) ⁸	U6004	
03T96624 (26T)	G70	03T39495 (24T)	U62	
03T34325 (27T)	G73	03T34450 (24T)	U67	
03T35180 (30T) ¹	G85	03T34284 (24T)	U68	
03T35194 (23T)	I80	03T35399 (30T)	U79	
03T37328 (34T)	I84	03T35107 (25T)	U80	
03T34597 (26T)	M65	03T34326 (31T) ¹³	W80	
03T38530 (31T) ¹⁰	M80	03T35033A/16MKA(36T) ⁶	W96	
03T38531 (30T)	M83	03T36823A (35T)	W97	
03T37219 (32T)	M89	03T96773 (24T)	X68	
03T37655A (35T) ¹¹	N10	03T17306A (38T)	Z10	
03T35730 (16T) ¹⁴	N56	03T39491 (32T)	Z90	
03T34449 (23T) ¹¹	N60	03T39492 (32T)	Z91	
03T39158 (24T) ¹²	N70	03T37260A (32T)	Z92	
03T37024 (27T)	N78	03T37784A (33T)	Z93	
03T35489A (30T) ¹⁵	N79	03T35935A (37T)	Z98	
03T35488A (28T) ¹⁵	N80	03T17307A (31T)	Z99	
03T34457 (28T)	N81			

X68 INPUT GEAR:

Mack Trucks and TTC/Spicer provide 6-pitch spur gear drive gears which have a modified tooth profile and this profile makes it possible to have contact with the root of our standard U68 PTO gear as it is designed for the TG PTO. The X68 was design to eliminate this problem. The X68 gear can be used anywhere the U68 gear is used, but it must be used with the additional 23M60032S or 23M80032 spacer. The U68 gear should NOT be used on any application page showing the X68 input gear designator.

S68 INPUT GEAR:

The S68 input gear is a larger 6-pitch spur gear than the U68 or X68 input gear. This causes the gear to stick out of the housing further (or reach in deep into the transmission) thus the use of the "D" deep mount designator. The S68 is available in the TG series as well as the SH/CS6/8 series. (Note that the SH/CS series with th S68 input gear are limited to the 07, 09, 12 ratios and the SH8D-S6813 or CS8D-S6814 ratios.)

The S68 is designed to fit either the U68 or X68 application without internal tooth interference. As an option, the S68 input gear can be used in place of the U68 or X68 when used with the additional spacer and stud kit as shown on the application page. Changing from the X68 or U68 to the larger S68 will change the output speed shown on the page, use multiplier .92 to determine the new PTO output percentage.

TABLE 4

TG SHIFT KIT / ASSEMBLY ARRANGEMENT OPTIONS

Kit No.		Assy.	Kit No.		Assy.
A — Manual Air	16MK3803-A 16MK3804-A	(1 & 4) (2 & 3)	S — Lectra-Shift	16MK3848-A 16MK3849-A	(1 & 4) (2 & 3)
<i>Kit includes shift cover, installation parts bag, & indicator light switch.</i>			<i>Kit includes shift cover, installation parts bag, wiring harness with relay, & indicator light switch.</i>		
C — Cable Control	16MK3735-14-A 16MK3735-23-A	(1 & 4) (2 & 3)	T — E-Hydra Shift	16TK4682 16TK4683	(1 & 4) (2 & 3)
<i>Kit includes shift cover, cable, knob, hook-up kit, indicator light kit, & indicator light switch.</i>			Z — Cable Shift Allison 1000-2000	16TK4060-14-A 16TK4061-23-A	(1 & 4) (2 & 3)
D — Double Acting Air	16TA3955 and 30T38111 16TA3955 and 30T38110	(1 & 4) (2 & 3)	<i>Kit includes shift cover, installation parts bag, & indicator light switch.</i>		
<i>Kit also requires 48M61261-A activation kit.</i>			4 — Air Shift Allison 1000-2000	16TK4063-A 16TK4064-A	(1 & 4) (2 & 3)
E — 12V Electric Air	16MK0200-A 16MK1200-A	(1 & 4) (2 & 3)	<i>Kit includes shift cover, installation parts bag, & indicator light switch.</i>		
<i>Kit includes shift cover, installation parts bag, & indicator light switch.</i>			5 — Elect/Air Shift Allison 1000-2000	16TK4018-A 16TK4019-A	(1 & 4) (2 & 3)
N — Special Electric-Shift (N56 only)	16TA3803 and 30T38111 or 16TA3804 and 30T38110	(1 & 4) (2 & 3)	<i>Kit includes shift cover, installation parts bag, & indicator light switch.</i>		
<i>This kit also requires 48TK4516 (2003 MY) or 48TK4517 (1999-2002 MY) installation parts bag. Sold separately.</i>			6 — Lectra-Shift Allison 1000-2000	16TK4066-A 16TK4067-A	(1 & 4) (2 & 3)
P — Air Shift (Cover only)	16MK3803-PA 16MK3804-PA	(1 & 4) (2 & 3)	<i>Kit includes shift cover, installation parts bag, wiring harness with relay, & indicator light switch.</i>		
<i>Kit includes the indicator light switch and connector.</i>			R — Lever Control	16MK3919-14-A 16MK3919-23-A	(1 & 4) (2 & 3)
<i>Kit includes the shift cover, indicator light kit, & indicator light switch.</i>					

TABLE 5

TG OUTPUT SHAFT OPTIONS

Shaft Type	Shaft Type
B — Standard Shaft 1 1/4 RD — 5/16 Keyway	P — SAE "B-B" 2- or 4-Bolt — 1"-15T Spline (14TA4532)
C — 1410 Companion Flange (14TA3975)	P"G" — AE "B-B" 2- or 4-Bolt — 1"-15T Greasable Opt (14TA4552)
F — SAE "A" 2-Bolt — 3/4 RD 5/16 Keyway (14TA4527)	Q — SAE "A" 2-Bolt — 7/8-13T Spline (14TA4529)
G — Special — 7/8-13T Spline (14TA4528)	R — SAE "A" 2-Bolt — 5/8-9T Spline (14TA4541)
I — DIN 5462 — 36mm-8T Spline (14TA4422)	S — SAE "B" 2-Bolt — 7/8-13T Spline (14TA4530)
K — SAE "B" 2- or 4-Bolt — 7/8-13T Spline (14TA4531)	T — SAE "A" 2-Bolt — 3/4-11T Spline (14TA4533)
K"G" — SAE "B" 2- or 4-Bolt — 7/8-13T Greasable Opt (14TA4551)	X — 1.3-21T Spline
L — SAE "B" 2- or 4-Bolt — 7/8 RD 1/4 Keyway (14TA4550)	Z — SAE "B" 2- or 4-Bolt — 1 1/4-14T — Spline (14TA4423)
M — SAE "A" 2- or 6-Bolt — 7/8-13T Spline (14MA4553)	2 — DIN 100 Companion Flange (14TA3975)
N — 6-Bolt — 3/4 RD — 5/16 Keyway (14TA4554)	6 — SAE "B" 2-Bolt — 7/8-13T Spline

TABLE 6

TG SPECIAL FEATURES OPTIONS

Options	Options	Assy.
X — None	S — Pulse Generator - Pressure Lube Combine option "U" and option "P"	
A — Reverse shifter mounting (Air, Electric/Air or Lectra-Shift only). Use cover kit from table 4 and kit #16TK3837	T — Pulse Generator - High Torque Combine option "U" and option "H"	
E — U60 input gear, use gasket pack 52MK1001, attach 36M35665TC to visor decal	U — Pulse Generator. Change shift cover assembly to:	
F — Special Clearance Cap 15MK35351	Air Shift	
G — Greaseable Shaft (K"G"—14TA4419, P"G"—14TA4420)	16MK3819-A	(1 & 4)
H — High Torque (standard on 12, 13, 15 and 18 Ratios)	16MK3820-A	(2 & 3)
I — Dual Terminal Indicator Switch	Cable Shift	
30M91113 N.O. (1 or 4 Assembly)	16MK3788-A	(2 & 3)
30M92247 N.C. (2 or 3 Assembly)	16MK3789-A	(1 & 4)
J — High Torque — Pressure Lube (12, 13, 15 and 18 Ratios)	Lectra-Shift	
M — Milled Idler Cap	16MK3867-A	(1 & 4)
Install Clearance Cap Kit (15MK33977)	16MK3868-A	(2 & 3)
P — Pressure Lubed — Install Kit 43MK3734	<i>This option includes the pulse generator.</i>	
Q — High Torque with Milled Idler Cap	V — U60 input gear, use gasket pack 52MK1001.	
Combine option "M" with option "H"	Install Clearance Cap Kit (15MK33977), and attach 36M35665TC to visor decal.	