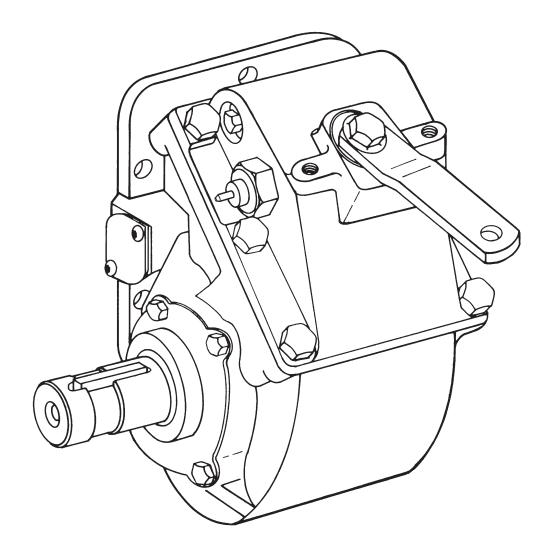
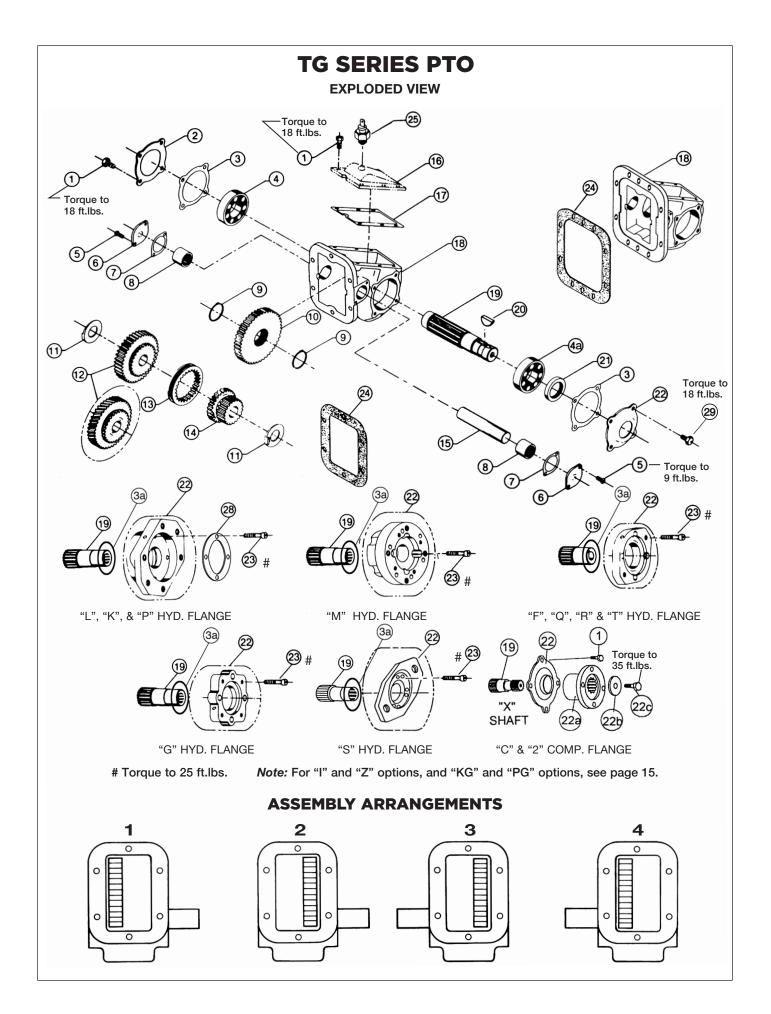


TG SERIES POWER TAKE-OFF

PARTS LIST AND SERVICE MANUAL





PARTS LIST AND DESCRIPTION

ITEM	QTY	PART NUMBER	DESCRIPTION	
	10	19T33233	Cap Screw Std Assembly	
1	4	19T33233	Cap Screw T or 6 Shift Option	
	6	19T39257	Cap Screw T or 6 Shift Option	
2	1	15T34323	Closed Bearing Cap	
	1	15T34576	Bearing Cap "KG" & "PG" Shaft Gasket	
3	1	13T38542	O-Ring (Output)	
3a 4	1	12T36751 10T21017	O-Ring (Output) Output Bearing	
4 4a	1	10T38248	Output Bearing "I" & "Z"	
	4	19T34530	Button Head Cap Screw (Std.)	
	1	19M2562S	Flat Cap Screw (185, G85)	
5	1	19T34530	Button Head Cap Screw (185)	
Ŭ	2	19T31664	Socket Cap Screw (185)	
	4	19T31664 19T34530	Socket Cap Screw (S71) Button Head Cap Screw (G85)	
	2	15T33977	Idler Shaft Cap	
	2	15T35351	Idler Shaft Cap (TG6N-185)	
6	2	15T35612	Idler Shaft Cap (TG6N-S71	
			(See page 21 for installation)	
7	2	13T38286	Gasket	
8	2	10T24175	Input Bearing	
9 10	2	24T23937 See Page 4	Snap Ring (as required) Output Gear	
	2	21T34281	Thrust Washer	
11	2	21T38375	Coated Washer (A) Gears	
12	1	See Page 4	Input Gear	
13	1	49T33959	Clutch	
-		49T38158	Clutch (A69)	
14 15	1	See Page 4 07T33974	Ratio Gear Idler Shaft	
15	1	See Pg 6-10	Shift Cover Assembly	
17	1	13T64246	Gasket	
			Housings	
	1	01T37765	6-Bolt (6F) Housing	
	1	01T33958	6-Bolt Housing Std.	
18	1	01T34461	8-Bolt Housing Std. (see page 24 if marked with "W")	
	1	01T35032	8-Bolt 'M' Housing	
	1	01T35342	6-Bolt (TG6N) Housing	
	,	01103042	Output Shafts	
	1	06T41757	"X", "C", & "2" Shaft	
	1	06T36857	"B" Shaft	
	1	06T35048	"Q" & "S" Shaft	
	1	06T35082	"R" Shaft	
	1	06T39143 06T38373	"M","K", & "6" Hyd. Shaft "KG" Hyd. Shaft	
	1	06T39140	"F" & "N" Hyd. Shaft	
	1	06T39136	"G" Hyd. Shaft	
	1	06T39139	"L" Hyd. Shaft	
19	1	06T36136	"P" Hyd. Shaft	
10	1	06T38374	"PG" Hyd. Shaft	
	1	06T38261	"I" Hyd. Shaft	
	1	06T37335 06T38242	"T" Hyd. Shaft "Z" Hyd. Shaft	
		00100272	TG8F-E80 Output Shafts	
		06T63182	"X", "C", & "2" Shaft	
		06T63180	"B" Shaft	
		06T63061	"M", "K", & "6" Shaft	
		06T63184	"KG" shaft "F" & "N" Shaft	
		06T63168 06T63172	"P" & "N" Shaft "P" Shaft	
	1	26T01627	Woodruff Key (Std. Shaft)	
20	1	26T35254	Key ("F" Shaft Only)	
21	1	11T37790	Shaft Seal (2 Req. for "KG" or "PG" Output)	
		11T38247	Shaft Seal ("I" and "Z" Output)	
	1	15T41683	Bearing Caps "B", "C", "2", & "X" Output***	
	1	14T39166	"T", "Q", & "R" Hyd. Flange	
	1	14T39165	"G" Hyd. Flange	
	1	14T39163	"K", "KG", "L", "P", & "PG" Hyd. Flange	
22	1	14T39167	"M" Hyd. Flange	
	1	14T39162	"S" Hyd. Flange	
	1	14T38259 14T38244	"I" Hyd. Flange "Z" Hyd. Flange	
	1	14T39528	"6", "6G" Hyd. Flange	
	1	14T39538	KW, PW Hyd. Flange Wet	
	<u> </u>		Spline w/o shaft seal 11T37790	

ITEM	QTY	PART NUMBER	DESCRIPTION
	1	18T38246	Pilot Ring "I" & "Z" Hyd (See page 15)
		14T37357	
22a	1		"C" Companion Flange
	1	14T37378	"2" Companion Flange
	1	12T43185 21T20092	KW, PW, Pump O-Ring Flat Washer ("2", "C", & "X" Only)
22b			Cap Screw ("2", "C", & "X" Only)
22c	1	19T38266	
	4	19T34462	Cap Screw (Hyd. "L", " K", " P", "KG",
			"PG" Assy. Only)
	4	19T38249	"M" Hyd. Flange Assy. Only
23	4	19M84478	"N" Hyd. Flange Assy. Only
	4	19T39257	"F", "G", "Q", "R", "S", & "T" Hyd. Assy. Only
	4	19T41756	(B Piloted Cover)
	4	19T96512	Cap Screw (Hyd. "I" & "Z" Only)
N.S.	1	19MK4717	Bolt Kit "G" Flange (Option)
N.S.	1	13M51717	Tube, Gasket Eliminator (For W80 Only)
38	4	19T41118	Cap Screw
	1	13M35091	.010 6-Bolt Gasket
		13M35092	.020 6-Bolt Gasket
	1	13M13541	Allison Gasket (U60, A69)
24	1	13M35151	.010 8-Bolt Gasket
		13M35152	.020 8-Bolt Gasket
	1	13T35198	.010 Gasket (TG6N-I85)
	1	13T35199	.020 Gasket (TG6N-I85)
	1	13T62705	Spl. Gasket (8F-E80)
05		00700111	Positive Indicator Switch (includes O-Ring)
25	1	30T38111	For 1 & 4 Assy. (White) N.O. For 2 & 3 Assy. (Black) N.C.
		30T38110	
		25T35724 25T35725	Cap Plug F, G, K, M, N, Q, & S
		25135725 25T38309	Cap Plug L & P Cap Plug I
42	1		
		25T35520	Cap Plug R
		25T37387	Cap Plug T
07	1	25T35936	Cap Plug Z
27	1	43T37236	Zerk ("KG" or "PG")
28	1	58T38789	Installation Ring (Output Flange
			"K", "L", "P", "KG", "PG", "Z", "6", & "6G")
29	4	19T41756	Cap Screw ("B", "C", "2", & "X" Output)
N.S.	2	26T37992	Dowel Pins (TG6F)
		30M91113	Two Terminal Switch N.O. (I option) (Silver)
N.S.	1	30M92247	Two Terminal Switch N.C. (I option) (Gold)
		12T32526	O-Ring
N.S.	1	30TK4123	Switch w/Booted Control N.C.
NO	4	30TK4124	Switch w/Booted Control N.O.
N.S.	1	36M111NP	Nameplate
N.S.	1	36MK3841	Label Packet
N.S.	1	TG-GSK-A1	Gasket & Seal Kit – Air Shift Items 3, 3a, 7,
			17, & 21, (1) 12T36526 (See Air Cover Pg. 6, Items 10 & 4)
			rg. 0, items 10 a 4)
N.S.	1	TG-GSK-C	Gasket & Seal Kit – Cable Shift Items 3, 3a,
			7, 17, & 21, (1) 12T36526 (See Cable Cover
			Pg. 7 Items 1, 5, 6, & 9)
N.S.	1	TG-GSK-S	Gasket & Seal Kit – Lectra Shift Items
			3, 3a, 7, 17, & 21, (1) 12T36526 (See Lectra Shift
			Pg. 7, Items 10 & 4)
N.S.	1	TG-GSK-T	Gasket & Seal Kit – E-Hydra (before 12/07)
			Items 3, 3a, 7, 17, & 21, (1) 12T36526
			(See E-Hydra Pg. 8, Items 8 & 14, 12T35345)
NC	4	TG-GSK-T1	
N.S.	1	10-03K-11	Gasket & Seal Kit – E-Hydra (12/07 & later) Items 3, 3a, 7, 17, & 21, (1) 12T36526
			(See E-Hydra Pg. 8, Items 2 & 11)
NC	1	TO OSK IA	
N.S.	1	TG-GSK-IA	Gasket & Seal Kit – Air – "I" or "Z" Output
N.S.	1	TG-RBK-A1	Rebuild Kit – Air Shift Items 3, 3a, 4, 7, 8, 9, 11*,
			17, 20, & 21 (1) 12T36526 (See Air Cover Pg. 6, Items 10 & 4)
N.S.	1	TG-RBK-C	Rebuild Kit - Cable Shift Items 3, 3a, 4, 7, 8, 9,
			11*, 17, 20, & 21 (1) 12T36526
			(See Cable Cover Pg. 7, Items 10 & 4)
N.S.	1	TG-RBK-S	Rebuild Kit – Lectra Shift Items 3, 4, 7, 8, 9, 11*,
			17, 20, & 21 (1) 12T36526
			(See Lectra Shift Pg. 7, Items 10 & 4)
N.S.	1	TG-RBK-T	Rebuild Kit – E-Hydra (before 12/07) Items 3,
			3a, 4, 7, 8, 9, 11*, 17, 20, & 21 (1) 12T36526
			(See E-Hydra Pg. 8, Items 8, & 14, 12T35343)
N.S.	1	TG-RBK-T1	Rebuild Kit – E-Hydra (12/07 & later) Items 3,
			3a, 4, 7, 8, 9, 11*, 17, 20, & 21 (1) 12T36526
			(See E-Hydra Pg. 8, Items 2, & 11, 12T35343)
			*Use (2) 21T38375
N.S.	1	TG-RBK-IA	Rebuild Kit - Air "I" or "Z" Output

In assembly and disassembly the recommended torque value of all hex head cap screws is 18 ft.lbs.** and the recommended torque value on the button head cap screws is 9 ft.lbs. Should any cap screw loosen over time, the cap screw should be discarded and threads examined for damage. Use new cap screws with lock patch. Notes: ** Hydraulic flange cap screws are 25 ft.lbs. *** It is recommended to use Loctite #640 on outside of seal when replacing the shaft seal.

GEAR SET SELECTION CHART

TRANSMISSION & RATIO DESIGNATOR

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NS NOTE

<u>U60</u> 04

	ITEM	12			ITEM [·]	12
INPUT GEAR	теетн	TRANS	NOTE	INPUT GEAR	теетн	TRANS
03T38783	(30T)	A69	3	03T37655A *	(35T)	N10
03T34810 *	(18T)	C57		03T35730 *	(16T)	N56
03T34452 *	(23T)	C60		03T39158 *	(24T)	N70
03T34454 *	(20T)	C61		03T35489A *	(30T)	N79
03T34453 *	(24T)	C70		03T35488A *	(28T)	N80
03T34455 *	(28T)	C76		03T34457 *	(28T)	N81
03T40079 *	(37T)	D94		03T34286 *	(21T)	S60
03T64783	(27T)	E70		03T96746 *	(22T)	S61
03T62715	(33T)	E80	10	03T38184 *	(22T)	S63
03T94192 *	(42T)	F10		03T94243	(26T)	S68
03T35189 *	(42T)	F11		03T34287 *	(24T)	S70
03T35031 *	(21T)	F61		03T35540	(29T)	S71
03T35613 *	(25T)	F62		03T37918 *	(28T)	S73
03T35024	(24T)	F63		03T38546 *	(29T)	T81
03T35025 *	(25T)	F65		03T35650 *	(28T)	T82
03T38140	(24T)	F66		03T34451 *	(20T)	U57
03T37657	(26T)	F70		03T34285	(24T)	U60
03T96626 *	(29T)	F75		03T39495 *	(24T)	U62
03T37740 *	(28T)	F84	2	03T34284	(24T)	U68
03T43207 *	(31T)	F89		03T34326 *	(31T)	W80
03T34325 *	(27T)	G73		03T96773 *	(24T)	X68
03T35180 *	(30T)	G85		03T17306A *	(38T)	Z10
03T37328 *	(34T)	184		03T39491A *	(32T)	Z90
03T34597	(26T)	M65		03T37260A *	(32T)	Z92
03T38530 *	(31T)	M80	4	03T35935A *	(37T)	<i>Z</i> 98
03T38531 *	(30T)	M83		03T17307A *	(31T)	<i>Z</i> 99

Notes:

- When using this gear, replace the gasket pack with 52MK1002 or add 13M13541 gasket/shim when used with 04 or 05 ratio on Allison transmissions. Note that the TG04 ratios kits from Muncie Power include this gasket (kit), but the TG05 ratio kits do not.
- With this gear a special housing (01T37765 w/(2) 26T37992 pins), a stud kit 20TK4049 (metric), and 52TK4113 packet is used. Use of any other housing is not approved.
- 3. The TG Series PTO always uses a special shifter cover when this input gear is used. Requires 20MKM604 stud kit and 23M60270 spacer and 52TK4470 kit to be used with the installation of the PTO & shift collar (49T38158).
- 4. Used only with special housing 01T35342 (N) and metric stud kit 20MKM602.
- 5. When selling this gear include the visor seal decal, 36M35665TC, with the boxed gear. When assembling a unit mount this decal on the visor label included with the PTO before applying to vehicle visor.
- 6. 13M51717 tube, gasket eliminator, is to be included with the boxed gear or when assembled into a unit.
- 7. Requires adapter plate kit 29TK3863.
- 8. Include special lube sheet MC94-02.
- 9. Gears with "A" include (2) coated thrust washers 21T38375 (item 11).
- 10. E80 requires special output shaft.

* Input Gears in italics and with an asterisk are obsolete. They will be available as service parts only, until inventory is depleted.

	ITEM 14	ІТЕМ	10	
RATIO	RATIO GEAR	теетн	OUTPUT GEAR	TEETH
04	04T34277	(13T)	02T34278	(36T)
05	04T34275	(16T)	02T34276	(34T)
06	04T34441	(19T)	02T34440	(31T)
07	04T34271	(21T)	02T34272	(29T)
08	04T35186	(23T)	02T35185	(26T)
09	04T34399	(24T)	02T34398	(26T)
12h	04T35155	(26T)	02T35162	(23T)
13h	04T35363	(27T)	02T35362	(21T)
15h	04T34598	(29T)	02T39172	(20T)
18h	04T34605	(31T)	02T34601	(18T)

Note-Item 10 and 14:

Input Ratio Gear & Output Gear must be used in pairs as shown above.

The TG Series PTO is designed to allow easy change from one model transmission to another by changing only one gear and to allow changing speeds by changing two gears.

The chart shows gear part numbers for each transmission designator (Ex: U60) and each speed ratio available (Ex: 04).

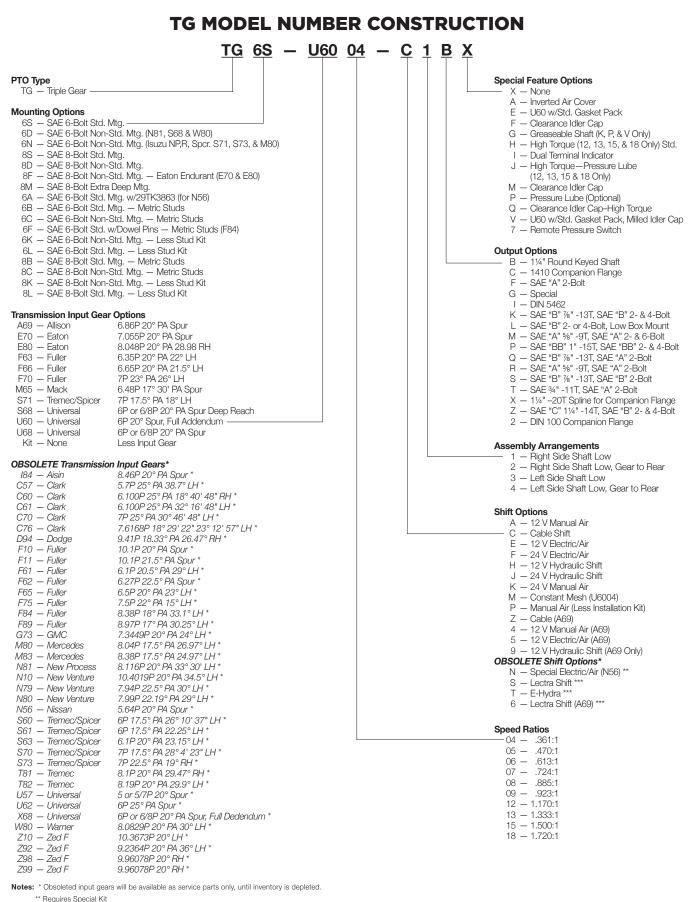
X68 INPUT GEAR:

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:

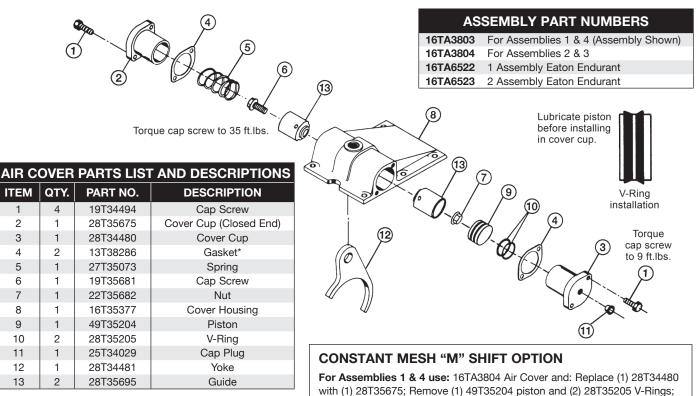
The S68 input gear is a larger 6-pitch spur gear than the U68 or X68 input gear. This causes the gear to stick out of the housing further (or reach in deep into the transmission) thus the use of the "D" deep mount designator. The S68 is available in the TG Series as well as the SH/CS6/8 Series. (Note that the SH/CS Series with the 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.



*** Obsoletde shift options

AIR COVER OPTION "A" OR "E"



TG-ASSK-1

ITEM

1 2

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Air Cover Seal Kit - Items 4, 10 & (2) 12T35343 [From Page 3 -Item 17, (1) 12T36526]

RBK-3838

Air Cover Rebuild Kit - Items 1, 2, 3, 4, 5, 10, 12, (2) 12T35343 [From Page 3 - Item 17, (1) 12T36526]

OPTION 16TA3955 Add to Standard Air Cover Parts List: (1) 28T34480. (1) 49T35204, (2) 28T35205 Delete: (1) 27T35073, (1) 28T35675

DOUBLE ACTING

AIR SHIFT

When repairing cover with O-Ring seals (4) use RTV with supplied gaskets.

REVERSED COVER INSTALLATION

ASSEMBLED SHIFTER PART NUMBERS:

(Includes Adapter Plate and Hardware)

16TK3835 (Reversed Air Cover For Assys. 1 & 4) 16TK3836 (Reversed Air Cover For Assys. 2 & 3) 16TK3837 CONVERSION KIT (Requires Standard Cover - Used with Air or Lectra Shift Covers Only)

CONVERSION KIT INCLUDES

ITEM	QTY.	PART NO.	DESCRIPTION
12	1	28T35581	Yoke
14	1	28T35184	Adapter Plate
15	4	19T35237	Socket Cap Screw
16	2	19T35236	Hex Cap Screw
17	4	19T33233	Hex Cap Screw
N.S.	1	13T64246	Gasket

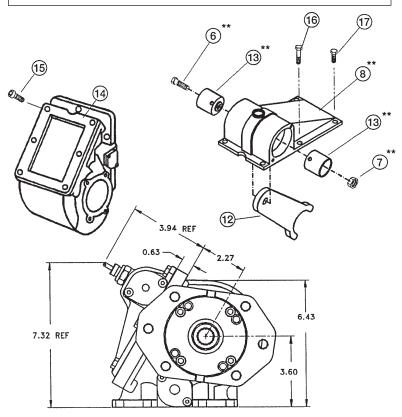
** Items are included with the standard cover and are reused in this assembly

NOTE: Change Indicator Switch from the original item 25 shown on page 3, Switch not included in Kit.

For Assemblies 2 & 3 use: 16TA3803 Air Cover and change as indicated above.

When using the U6004 (03T34732) input gear use: (1) 16T35377 cover housing; Install (2) 15T33977 shaft caps with (2) 13T38286 gasket & (4) 19T34530 cap screws; Install (1) 25T32143 plug w/12T36526 O-Ring into indicator switch hole.

Install (1) 25T32143 plug w/12T36526 O-Ring into indicator switch hole.

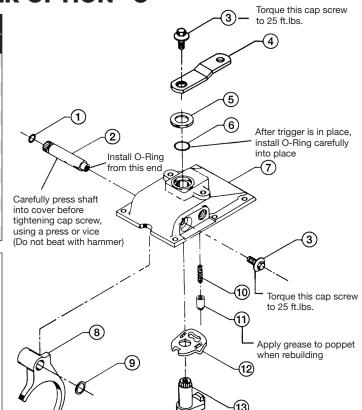


CABLE COVER OPTION "C"

CABLE COVER PARTS LIST AND DESCRIPTIC					
ITEM	QTY.	PART NO.	DESCRIPTION		
1	1	12T36878	O-Ring		
2	1	17T34495	Shifter Rail		
3	2	19T34259	Cap Screw		
4	1	17T34254	Shifter Lever		
5	1	28T35061	Retainer Washer		
6	1	12T36871	O-Ring		
7	1	16T34473	Cable Cover Housing		
8	1	28T34476	Yoke		
9	1	21T35071	Copper Washer		
10	1	27T34253	Spring		
11	1	28T34252	Poppet		
12	1	28T34474	Yoke Plate		
13	1	28T34261	Trigger		

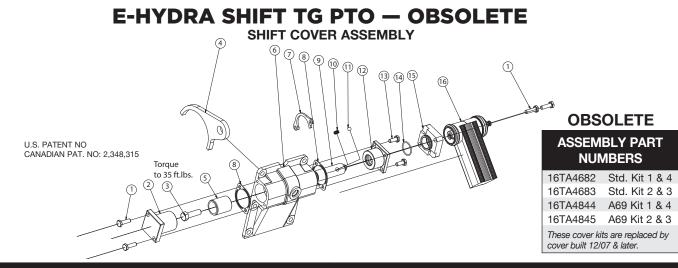
ASSY PART NUMBER: 16TA3735 ALL ASSEMBLIES

Indicator switch sold separatelyTG-CSRKCable Cover Rebuild Kit – Items 1, 2, 5, 6, 9, 10, & 11
[From Page 3 – Item 17, (1) 12T36526]TG-CSSKCable Cover Seal Kit – Items 1, 5, 6, & 9
[From Page 3 – Item 17, (1) 12T36526]16TA3793Cable Cover with Breather Port (W96)
(Item 7 – 16T35166)NOTE: When rebuilding cover lubricate all O-Rings before installation.

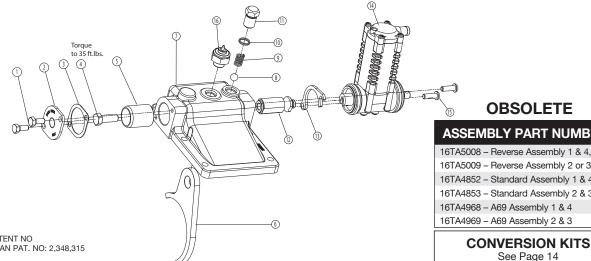


Cable Shift Option "C" Includes 28MCC120 Cable, 28MK0155 Knob, and 36MK1210A Light Kit

LECTRA SHIFT OPTION "S" - OBSOLETE (2)NOTICE: When assembling guides to the yoke, the capscrew #6 and the shorter guide #13 must be located on the (8) solenoid side of the yoke. The Guide and cap screw ()location must be changed when changing the 13 arrangement of the cover assembly. The Lectra (6)Shift must be assembled so that the solenoid pushes to engage. (14) (9) ര æ (10) Torque cap screw to 32 ft.lbs. (3) Torque $(\mathbf{1})$ cap screw LECTRA SHIFT PARTS LIST AND DESCRIPTIONS to 9 ft.lbs. ITEM QTY. PART NO. DESCRIPTION (16) Torque 4 19T34494 Cap Screw 1 to 107 ft.lbs. 2 28T35675 Cover Cup (Spring End) 1 3 1 28T35387 Cover Cup (Solenoid) 4 2 13T38286 Gasket* 5 27T35073 Spring (Long - 2.75) 1 6 19T35680 Cap Screw 1 22T35683 Locknut 7 1 Cover Housing 8 16T35377 1 ASSEMBLY PART NUMBERS: OBSOLETE 9 1 49T35389 Piston 16TA3822-A For Assemblies 1 & 4 (Assembly Shown) 10 1 12T35304 O-Ring 11 1 28T34481 Yoke 16TA3823-A For Assemblies 2 & 3 12 1 28T35695 Guide (Long) TG-SSSK Lectra Shift Seal Kit - Items 4 & 10, (2) 12T35343 13 1 28T35390 Guide (Short) [From Page 3 - Item 17, (1) 12T36526] 14 1 27T35391 Spring (Short - 1.09) *When repairing cover with O-Ring seals (4) use RTV 28T35392 15 1 Spacer with supplied gaskets. 16 28TK4587 Solenoid (w/grd. wire kit) 1



	SHIFT COVER ASSEMBLY PARTS LIST AND DESCRIPTIONS — E HYDRA BUILT BEFORE 12/7						
ITEM	QTY.	PART NO.	DESCRIPTION	ITEM	QTY.	PART NO.	DESCRIPTION
1	4	19T34494	Cap Screw	10	1	27T39813	Spring
2	1	28T40052	Cup, Spring	11	1	28T39814	Ball
3	1	19T35681	Cap Screw			28T40051	Adapter - STD 16TA4682 & 16TA4683
4	1	28T38167 28T34481	Yoke – 1 or 4 Assembly – 2 or 3 Assembly	12	1	28T40215	Adapter – Allison 1000/2000 (16TA4844 & 16TA4845)
5	1	28T40053	Guide	13	2	19T34028	Cap Screw
6	1	16T40050	Cover, Housing	14	1	12T36280	O-Ring
7	1	1214KES5C00	Retainer – Included with 28TA4685	15	1	28T39175	Adapter
8	2	13T40303	Gasket	16	1	28TA4685	Cylinder Assembly- (REF# 194KES5E212) 12 V
9	1	28T39592 28T40214	Shift Shaft – STD 16TA4682 & 16TA4683 Shift Shaft – Allison 1000/2000 *16TA4844 & 16TA4845	N.S.	1	12T35343	O-Ring – Included with 28TA4685



OBSOLETE

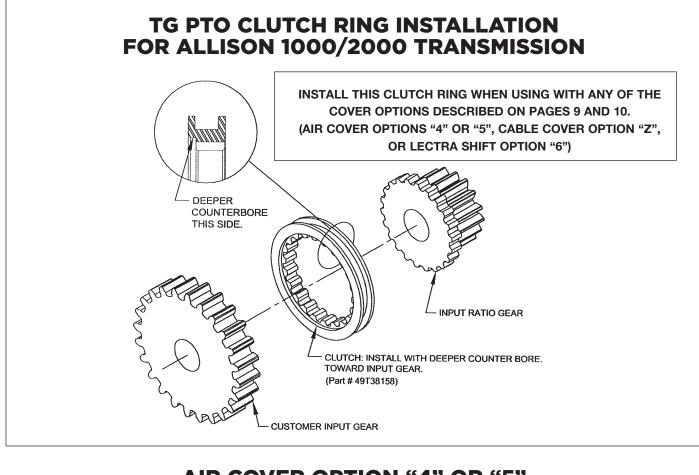
ASSEMBLY PART NUMBERS 16TA5008 - Reverse Assembly 1 & 4, Pg. 6 16TA5009 - Reverse Assembly 2 or 3, Pg. 6 16TA4852 – Standard Assembly 1 & 4 16TA4853 – Standard Assembly 2 & 3 16TA4968 - A69 Assembly 1 & 4 16TA4969 - A69 Assembly 2 & 3

See Page 14

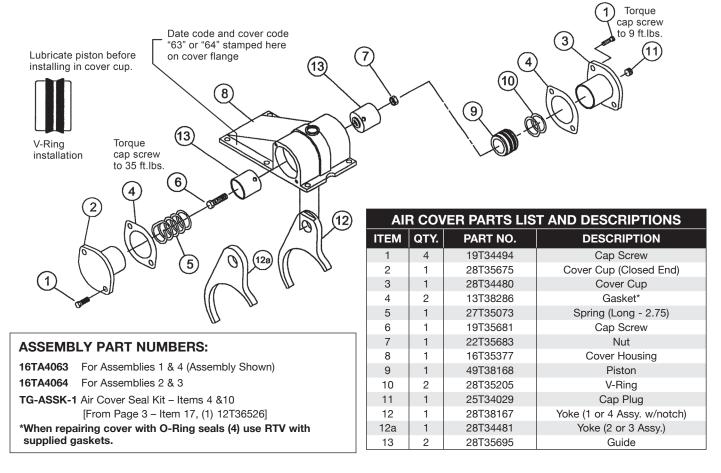
U.S. PATENT NO CANADIAN PAT. NO: 2,348,315

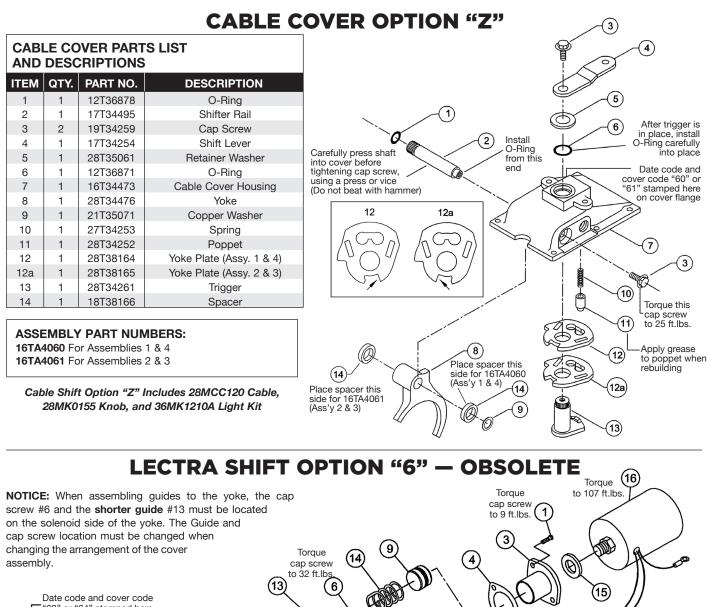
S	SHIFT COVER ASSEMBLY PARTS LIST AND DESCRIPTIONS – E HYDRA BUILT 04/10 AND CURRENT								
ITEM	QTY.	PART NO.	DESCRIPTION	ITEM	QTY.	PART NO.	DESCRIPTION		
1	2	19T34028	Cap Screw, Hex Head 1/4-20 × 5/8	10	1	12T41760	O-Ring, Poppet		
2	1	15T33977	Cap, Shaft	11	1	28T41383	Poppet		
3	1	13T38286	Gasket			28T41694	Shifter Rod		
4	1	19T40289	Cap Screw, Hex Head %-24 UNF \times 1.00	12	1	28T41721	Shifter Rod (Allison 1000/2000		
5	1	28T40053	Guide				16TA4968 & 16TA4969		
6	1	28T34481	Yoke	13	1	1214ECO1000	Retainer		
7	1	16T41696 16T41695	Cover, Housing (2 or 3 Assembly) Cover, Housing (1 or 4 Assembly	14	1	28TA4685	Cylinder Assembly		
8	1	28T41391	3% Steel Ball	15	2	19T34512	Cap Screw, Hexagon Socket Button Head		
9	1	27T41384	Spring	16	1	30T38110 30T38111	Indicator Switch (NC) 2 & 3 Assembly Indicator Switch (NC) 1 & 4 Assembly		

Note: *Indicator switch is included with the PTO and not in any kit.



AIR COVER OPTION "4" OR "5"





ASSEMBLY PART NUMBERS:	OBSOLETE
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16TA4066 For Assemblies 1 & 4 (Assembly Shown) 16TA4067 For Assemblies 2 & 3

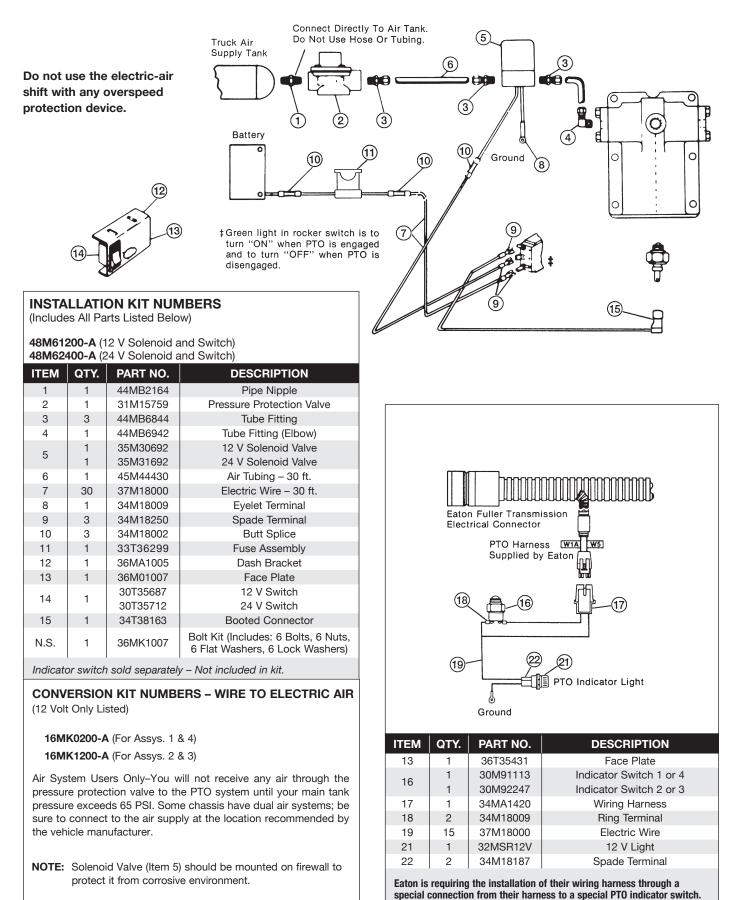
- TG-SSSK Lectra Shift Seal Kit Items 4 & 10
- [From Page 3 Item 17, (1) 12T36526]

* When repairing cover with O-Ring seals (4) use RTV with supplied gaskets.

LECT	RA SH	IIFT PARTS	LIST AND DESCRIPTIONS
ITEM	QTY.	PART NO.	DESCRIPTION
1	4	19T34494	Cap Screw
2	1	28T35675	Cover Cup (Spring End)
3	1	28T35387	Cover Cup (Solenoid)
4	2	13T38286	Gasket*
5	1	27T35073	Spring (Long – 2.75)
6	1	19T35680	Cap Screw
7	1	22T35683	Locknut
8	1	16T35377	Cover Housing
9	1	49T38169	Piston
10	1	12T35304	O-Ring
11	1	28T38167	Yoke (1 & 4 Assy. w/notch)
11a	1	28T34481	Yoke (2 & 3 Assy.)
12	1	28T35695	Guide (Long)
13	1	28T35390	Guide (Short)
14	1	27T35391	Spring (Short – 1.09)
15	1	28T35392	Spacer
16	1	28TK4587	Solenoid (w/grd. wire kit)

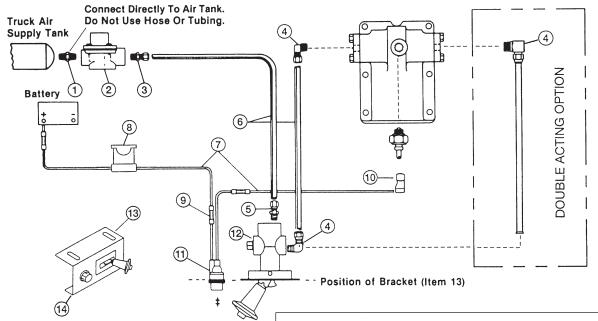
TG SERIES ELECTRIC-AIR SHIFT SYSTEM

PARTS LIST AND DESCRIPTION



TG SERIES STANDARD AIR SHIFT SYSTEM

PARTS LIST AND DESCRIPTION



‡ Red indicator light is to turn "ON" when PTO is engaged, and is to turn "OFF" when PTO is disengaged.

	INSTALLATION KIT NUMBERS (Includes All Parts Listed Below)					
	48M61250-A (12 V Light) 48M62450-A (24 V Light)					
ITEM	QTY.	PART NO.	DESCRIPTION			
1	1	44MB2164	Pipe Nipple			
2	1	31M15759	Pressure Protection Valve			
3	1	44MB6844	Tube Fitting			
4	2	44MB6942	Tube Fitting (Elbow)			
5	1	44MB6842	Tube Fitting			
6	1	45M44430	Air Tubing – 30 ft.			
7	12	37M18000	Electric Wire – 12 ft.			
8	1	33T36299	Fuse Assembly			
9	3	34M18002	Butt Splice			
10	1	34T38163	Booted Connector			
11	1	32M12001	12 V Light			
	1	32M24001	24 V Light			
12	1	35M18653	Air Valve			
13	1	36MA1004	Dash Bracket			
14	1	36M01005	Face Plate			
N.S.	1	36MK1007	Bolt Kit (Includes: 6 Bolts, 6 Nuts, 6 Flat Washers, 6 Lock Washers)			
Indica	tor swit	tch sold separ	ately – Not included in kit.			

4838317-A (12 V LIGHT)

Same as 48M61250-A less Item 12 (35M18653 Air Valve).

CONVERSION KIT NUMBERS – WIRE TO ELECTRIC AIR

(12 Volt Only Listed)

16MK3803-A (For Assys. 1 & 4)

16MK3804-A (For Assys. 2 & 3)

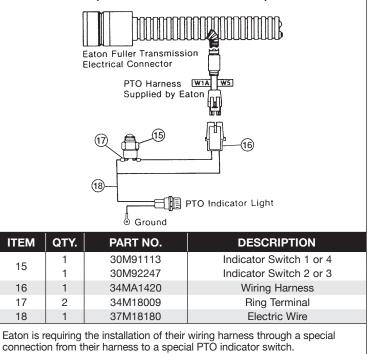
DOUBLE ACTING KIT NO. 48M61261-A (12 V Light Shift Option "D")

Includes parts listed in 48M61250-A with the exception of item numbers listed below.

ITEM	QTY.	PART NO.	DESCRIPTION
4	3	44MB6942	Tube Fitting (Elbow)
12	1	35T37955	Air Valve
13	1	36T38049	Dash Bracket
14	1	36T38016	Face Plate
N.S.	4	22MX2520	.25-20 Hex Nut
N.S.	4	19T34530	.25-20 x .5 Button Head
N.S.	1	36MK1011	Bolt Kit

EATON FULLER CEEMAT TRANSMISSIONS 48MK1434-14 (1 OR 4 ASSY); 48MK1434-23 (2 OR 3 ASSY)

(Used in addition to the kit above)



TG SERIES AIR SHIFT SYSTEM FOR NISSAN MLS-61A OR B

	OBSOLETE						
BA	SE K	IT 48TK451	8 "N" SHIFT OPTION				
ITEM	QTY.	PART NO.	DESCRIPTION				
9	1	23T35796	Solenoid Bracket				
10	2	44MB6844	Compression Fitting				
12	2	19T35800	Machine Screw				
15	2	21T35901	Lock Washer				
16	1	19T20522	Hex Head Cap Screw				
17	1	22T35145	Hex Nut				
19	1	44MB6842	Compression Fitting				
20	1	44MB6942	Compression Fitting				
21	1	45M44430	Tubing - 30 ft.				
22	2	34T35436	.250" Male Spade Terminal				
23	2	34T35908	.250" Female Spade Terminal				
24	1	35M30692	12 V Solenoid				
N.S.	1	37T42512	Wire 12.5 ft.				
N.S.	4	34M18002	Butt Splice				
N.S.	1	36MK1210A	Light Kit				

OBSOLETE

Activation Kit Model Year 1999-2002 48TK4517 (Sold Separately) Same as 48TK4516 except relay 30T37926 in place of 30T38973

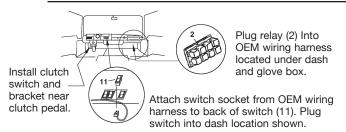
OBSOLETE

ACTIV	ACTIVATION KIT 48TK4516 FOR NISSAN 2003-200					
ITEM	QTY.	PART NO.	DESCRIPTION			
1	1	30T36232	Clutch Switch			
2	1	30T38973	Relay (2003)			
3	2	44T35790	Sleeve			
4	1	44T35791	Pipe Coupling			
5	2	44T35792	Nut			
6	1	44T35793	Tee			
7	1	23T36291	Switch Bracket			
8	1	23T36264	Push Plate			
11	1	30T36235	Switch			
13	2	22T36293	Hex Nut			
14	1	22T36297	Hex Nut			
18	2	19T36292	Hex Head Cap Screw			

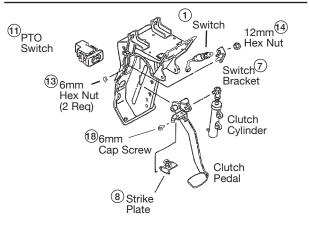
OBSOLETE

ACTIV	ACTIVATION KIT 48TK4693 FOR NISSAN 2005-2006					
ITEM	QTY.	PART NO.	DESCRIPTION			
1	1	30T36232	Clutch Switch			
2	1	30T38973	Relay (2003)			
7	1	23T36291	Switch Bracket			
8	1	23T36264	Push Plate			
11	1	30T36235	Switch			
13	2	22T36293	Hex Nut			
14	1	22T36297	Hex Nut			
18	2	19T36292	Hex Head Cap Screw			
27	1	44TK4607	Plastic Airline Kit			

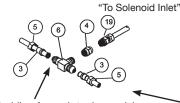
INSIDE CAB



CLUTCH SWITCH INSTALLATION

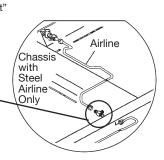


CHASSIS CONNECTIONS



Cut airline from air tank supplying clutch booster and insert tee fitting (6). Cut approximately 1.75" of tubing from line to install tee. Tube requires 37° flare for installation of nut and sleeve.

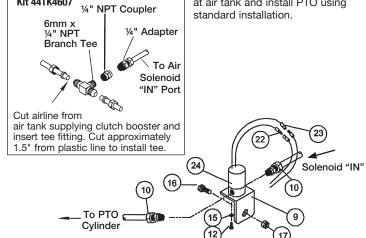
Chassis with Plastic Airline Only Kit 44TK4607



For chassis with 6mm plastic airline: DO NOT CUT AIRLINE.

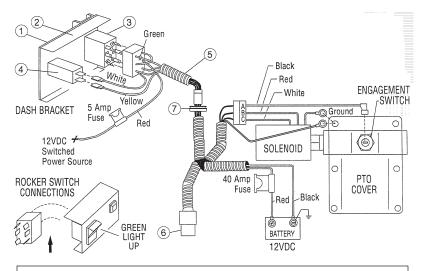
Install pressure protection valve at air tank and install PTO using standard installation.

17



(27

TG SERIES LECTRA SHIFT SYSTEM — OBSOLETE



CONVERSION KIT NUMBERS – WIRE TO LECTRA SHIFT

(12 V Only Listed) 16MK3848-A (For Assys. 1 & 4)

16MK3849-A (For Assys. 2 & 3)

Service Kit: 48TK3976 Includes wire harness relay, rocker switch & Indicator Light

	INSTALLATION KIT NUMBER 48TK3981 (Includes All Parts Listed Below)					
ITEM	QTY.	PART NO.	DESCRIPTION			
1	1	36T35431	Face Plate			
2	1	36MA1005	Dash Bracket			
3	1	30T37620	Switch			
4	1	32MSR12V	12 V Light			
5	1	34T37751	Wire Harness			
6*	1	37T43159	Relay			
7	1	37T35674	Grommet			
N.S.	1	19T35439	Sheet Metal Screw			
N.S.	5	28T35442	Wire Tie			
N.S.	1	36MK1007	Bolt Kit			
N.S.	1	36T35710	Dash Label (MC92-01)			

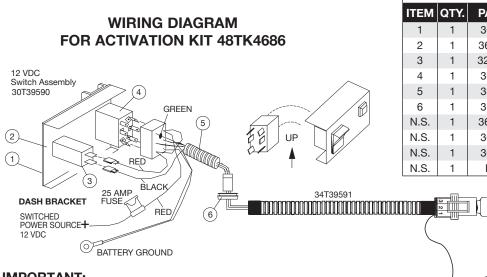
Indicator switch sold separately – Not incl. in above kit. * Relay is supplied in the wire harness.

REPLACEMENT PARTS

Repl. fuses sold as service items.

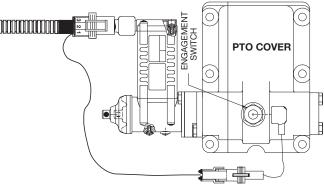
,	· · · · · · · · · · · · · · · · · · ·					
ITEM	QTY.	PART NO.	DESCRIPTION			
N.S.	1	33T37923	05 Amp Fuse			
N.S.	1	33T36951 40 Amp Fuse				
N.S.	1	37T38559	Relay Cover			

TG SERIES E-HYDRA SHIFT SYSTEM — OBSOLETE



48TK4686 ACTIVATION KIT

ITEM	QTY.	PART NO.	DESCRIPTION
1	1	36T35431	Faceplate
2	1	36MA1005	Bracket, Dash
3	1	32MSR12V	12 V Light
4	1	30T39590	Rocker Switch
5	1	34T39591	Wire Harness
6	1	37T39628	Grommet
N.S.	1	36MK1007	Bolt Kit
N.S.	1	36T39187	Dash Label
N.S.	1	36T40209	Caution Label
N.S.	1	IN05-04	Instruction Sheet



IMPORTANT:

Follow PTO installation instructions IN84-03

- 1. The rocker switch and dash bracket (if used) is to be mounted in the cab within easy reach of the operator.
- PTO engagement is made by pushing the rocker switch fully to the engage position and releasing the switch immediately upon engagement. (indicator light will light)
- 3. Drill .750 dia. hole in the firewall install black plastic grommet (p/n 37T39628) in hole and run the three wire connector through the grommet and plug into cab harness portion of harness. Note the orientation of the connector to insure proper assembly.
- 4. Plug the rocker switch receptacle onto the switch so that the green wire is up as noted in diagram.

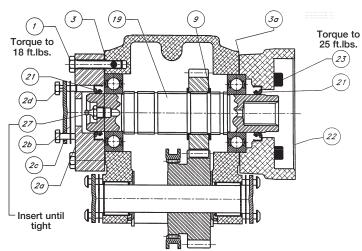
E-HYDRA SHIFTER KITS*

16TK5024 Standard 1 or 4 Assy.16TK5025 Standard 2 or 3 Assy.16TK5026 Allison 1000/2000 1 or 4 Assy.16TK5027 Allison 1000/2000 2 or 3 Assy.

NOTE: * Includes shifter, indicator switch, and activation kit.

	SPECIAL OUTPUT SHAFT OPTIONS								
	"Z" OPTION • KIT 14TA4423								
			FA4423 . "C" 1¼" -14T SPLINE	"I" O	ΡΤΙΟ	N • KIT 14T	A4422 DIN 5462		
ITEM	QTY.	PART NO.	DESCRIPTION	ITEM	QTY.	PART NO.	DESCRIPTION		
4a	1	10T38248	Bearing	4a	1	10T38248	Bearing		
9	2	24T23937	Snap Ring	9	2	24T23937	Snap Ring		
19	1	06T38242	Shaft, Output	19	1	06T38261	Shaft, Output		
21	1	11T38247	Shaft Seal	21	1	11T38247	Shaft Seal		
22	1	14T38244	Hydraulic Flange	22	1	14T38259	Hydraulic Flange		
22a	1	18T38246	Pilot Ring	22a	1	18T38246	Pilot Ring		
23	4	19T96512	Cap Screw	23	4	19T96512	Cap Screw		
26	1	25T35936	Cap Plug	26	1	25T37767	Cap Plug		

SPECIAL GREASE OPTION HYDRAULIC KITS



GREA	GREASE BEARING CAP • KIT 15TK4471					
ITEM	QTY.	PART NO.	DESCRIPTION			
1	4	19T38772	Cap Screw			
2a	1	15TA4491	Bearing Cap Includes Seal 11T37790 + Cover 15T38771			
2b	2	13T38286	Gasket			
2c	2	15T33977	Сар			
2d	2	19T34028	Cap Screw			
3	1	13T38542	Gasket			

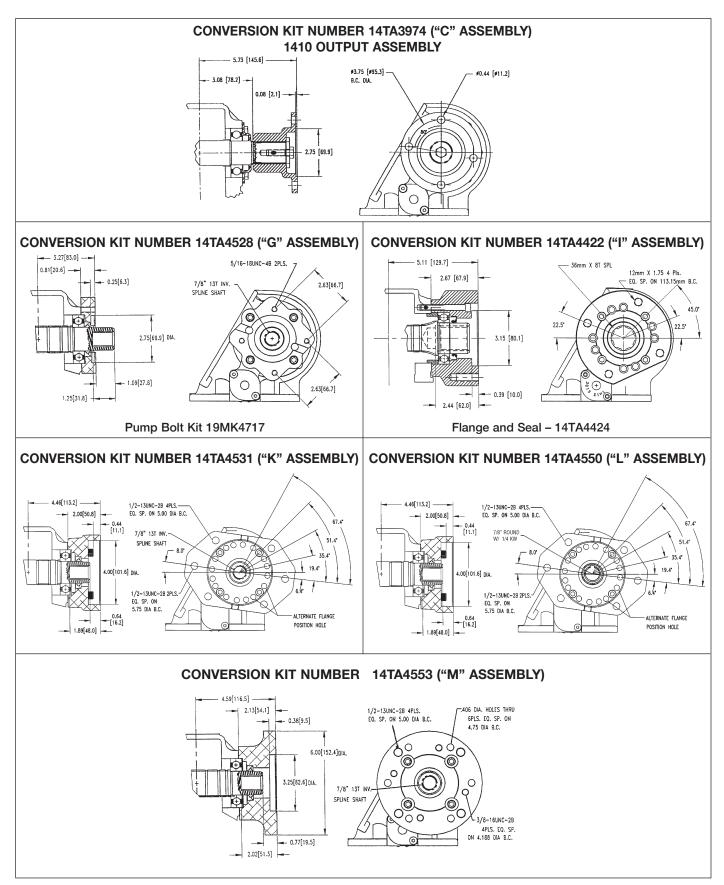
KIT: FOR "KG" TG SHAFT • KIT 14TA4551					
ITEM QTY. PART NO. DESCRIPTION					
Kit	1	15TK4471	Grease Bearing Cap Kit		
3a	1	12T36751	O-Ring		
9	2	24T23937	Snap Ring		
19	1	06T38373	Shaft		
22	1	14TA4535	Flange		
23	4	19T34462	Cap Screw		
27	1	43T37236	Grease Fitting (Zerk)		

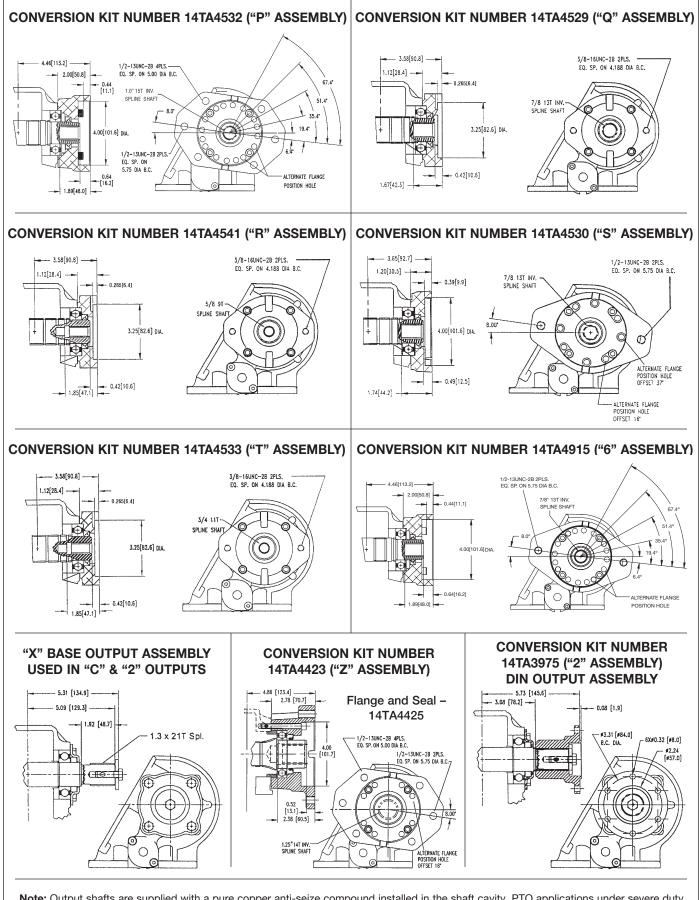
	TG HYDRAULIC FLANGE CONVERSION KIT: FOR "PG" TG SHAFT • KIT 14TA4552						
ITEM	ITEM QTY. PART NO. DESCRIPTION						
Kit	1	15TK4471	Grease Bearing Cap Kit				
3a	1	12T36751	O-Ring				
9	2	24T23937	Snap Ring				
19	1	06T38374	Shaft				
22	1	14TA4535	Flange				
23	4	19T34462	Cap Screw				
27	1	43T37236	Grease Fitting (Zerk)				
			UT FLANGE: KIT 06TK4442 Item 22 (14TA4535 Flange).				

OUTPUT RATIO 04-13 OUTPUT RATIO 15 & 18 REMOTE TYPE SHAFT REMOTE TYPE SHAFT 2 & 4 ASS'Y 2 & 4 ASS'Y 1 & 3 ASS'Y REQ. 2 REQ 1 **REQ. 2 SNAP RINGS** SNAP RINGS 1 & 3 ASS'Y SNAP RING **REQ. 2 SNAP RINGS** +∄ ++++` 🗄 +) + } +P P 1 **OUTPUT RATIO 04-13 OUTPUT RATIO 15 & 18 HYDRAULIC TYPE SHAFT HYDRAULIC TYPE SHAFT** 1 & 3 ASS'Y OUTPUT 2 & 4 ASS'Y RATIO 2 & 4 ASS'Y REQ 2 1 & 3 ASS'Y REQ. 2 REQ. 1 SNAP RINGS **REQ. 2 SNAP RINGS** SNAP RINGS SNAP RING 10 肚 + + \square 1111 +11 Ų INPUT 14 -RATIO GEAR

HYDRAULIC ASSEMBLIES

Conversion kits include Output Shaft, Hydraulic Flange, Cap Screws, Gasket, Shaft Seal, and Snap Ring.





Note: Output shafts are supplied with a pure copper anti-seize compound installed in the shaft cavity. PTO applications under severe duty cycles and/or high torque requirements may require servicing this shaft connection by periodically cleaning and re-greasing the shafts.

MUNCIE POWER PRODUCTS, INC.

TG SERIES HYDRAULIC FLANGE CONVERSION KITS

The following charts show the part numbers for the TG Series hydraulic mount output flanges. These flanges have the O-Ring groove as shown in the photo for the 12T36751 O-Ring. Previous versions of the TG flanges did not have the O-Ring groove and were sealed with a gasket 13T38542. The CS6/8 flange shown are the previous versions of the TG flange without the groove. These flanges are still currently used in the CS6/8 line.

DESCRIPTION	TG FLANGE	CS6/8 FLANGE	
F, Q, R, T Flg	14T39166	14T39141	
G Flg	14T39165	14T39137	
K, KG, L, P, PG Flg	14T39163	14T37779	
M Flg	14T39167	14M39159	
N Flg	14T39164	14M39130	
S Flg	14T39162	14T35464	
V Flg	Obsolete	Obsolete	
l Flg	14T38259**	14T38259	
Z Flg	14T38244**	14T38244	
6 Flg	14T39528	14T38981	

Note: ** These flanges still require the 13T38542 gasket and do not have the O-Ring groove.

O-Ring Groove/



TG SERIES Flange

TG SERIES SHAFT AND FLANGE KITS

SHAFT & FLG. KIT	тс кіт	FLG. W/SEAL QTY (1)	SHAFT QTY (1)	RING QTY (1)	CAP SCREW QTY (4)	O-RING QTY (1)	CAP PLUG QTY (1)	SNAP RING QTY (2)	GASKET QTY (1)
6	14TA4915	14TA4914	06T39143	58T38789	19T34462	12T36751	25T35724	24T23937	13T38542
G	14TA4528	14TA4537	06T39136	NA	19T39257	12T36751	25T35724	24T23937	13T38542
К	14TA4531	14TA4535	06T39143	58T38789	19T34462	12T36751	25T35724	24T23937	13T38542
L	14TA4550	14TA4535	06T39139	58T38789	19T34462	12T36751	25T35725	24T23937	13T38542
М	14TA4553	14TA4555	06T39143	NA	19M31200	12T36751	25T35724	24T23937	13T38542
Р	14TA4532	14TA4535	06T36136	58T38789	19T34462	12T36751	25T35725	24T23937	13T38542
Q	14TA4529	14TA4536	06T35048	NA	19T39257	12T36751	25T35724	24T23937	13T38542
R	14TA4541	14TA4536	06T35082	NA	19T39257	12T36751	25T35520	24T23937	13T38542
S	14TA4530	14TA4538	06T35048	NA	19T39257	12T36751	25T35724	24T23937	13T38542
Т	14TA4533	14TA4536	06T37335	NA	19T39257	12T36751	25T37387	24T23937	13T38542
V	Obsolete								
GREASEABLE SHAFT									
KG	14TA4551	14TA4535	06T38373	58T38789	19T34462	12T36751	25T35724	24T23937	13T38542
PG	14TA4552	14TA4355	06T38374	58T38789	19T34462	12T36751	25T35724	24T23937	13T38542

LRG OD SHAFT	тд кіт	FLG. W/SEAL QTY (1)	SHAFT QTY (1)	RING QTY (1)	CAP SCREW QTY (4)	O-RING QTY (1)	CAP PLUG QTY (1)	SNAP RING QTY (2)	GASKET QTY (1)
I **	14TA4422	14TA4424	06T38261	18T38246	19T96512	NA	25T38309	24T23937	13T38542
Z **	14TA4423	14TA4425	06T38242	18T38246	19T96512	NA	25T35936	24T23937	13T38542
LRG OD SHAFT	тд кіт	FLG. W/SEAL QTY (1)	SHAFT QTY (1)	COMP. FLG. QTY (1)	CAP SCREW QTY (4)	KEY/WASHER QTY (1)	FLG. CAP SCREW QTY (1)	SNAP RING QTY (2)	GASKET QTY (1)
B **	NA	15TA5220	06T36857	NA	19T41756	26T01627	NA	24T23937	13T38542
C **	14TA3974	15TA5220	06T41757	14T37357	19T41756	21T20092	19T38266	24T23937	13T38542
2 **	14TA3975	15TA5220	06T41757	14T37378	19T41756	21T20092	19T38266	24T23937	13T38542
X **	NA	15TA5220	06T41757	NA	19T41756	21T20092	19T38266	24T23937	13T38542

Flange Only w/Seal	TG SERIES	FLG. ONLY	SEAL
K, L, P Flg w/Seal	14TA4535	14T39163	11T37790
Q,R Flg w/Seal	14TA4536	14T39166	11T37790
G Flg w/Seal	14TA4537	14T39165	11T37790
S Flg w/Seal	14TA4538	14T39162	11T37790
V Flg w/Seal	Obsolete		
M Flg w/Seal	14TA4555	14T39167	11T37790
6 Flg w/Seal	NA	14T39528	11T37790
I Flg w/Seal	14TA4424	14T38259	11T38247
Z Flg w/Seal	14TA4425	14T38244	11T38247
B, C, 2, X w/Seal	15TA5220	15T41683	11T37790

Note: ** These flanges still require the 13T38542 gasket and do not have the O-Ring groove.

TG SERIES SEAL KIT OR REBUILD KIT

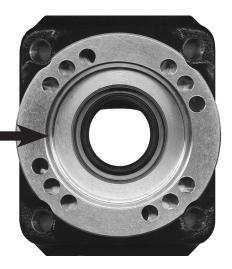
FOR UNITS WITH DIRECT MOUNT PUMP FLANGE

Examine the under side of the hydraulic mounting flange. If there is an O-Ring groove as shown then use the O-Ring 12T36751 provided in the kit. If groove is not present, then use the 2nd gasket provided (13T38542).

Lubricate seals and O-Rings prior to installation. Place the O-Ring around the output shaft bearing which protrudes from the housing before installing the output flange.



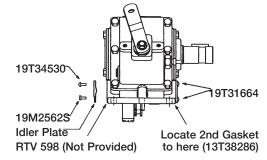
NO GROOVE IN FLANGE (USE 13T38542 GASKET)



GROOVE FOR O-RING (USE 12T36751 O-RING)

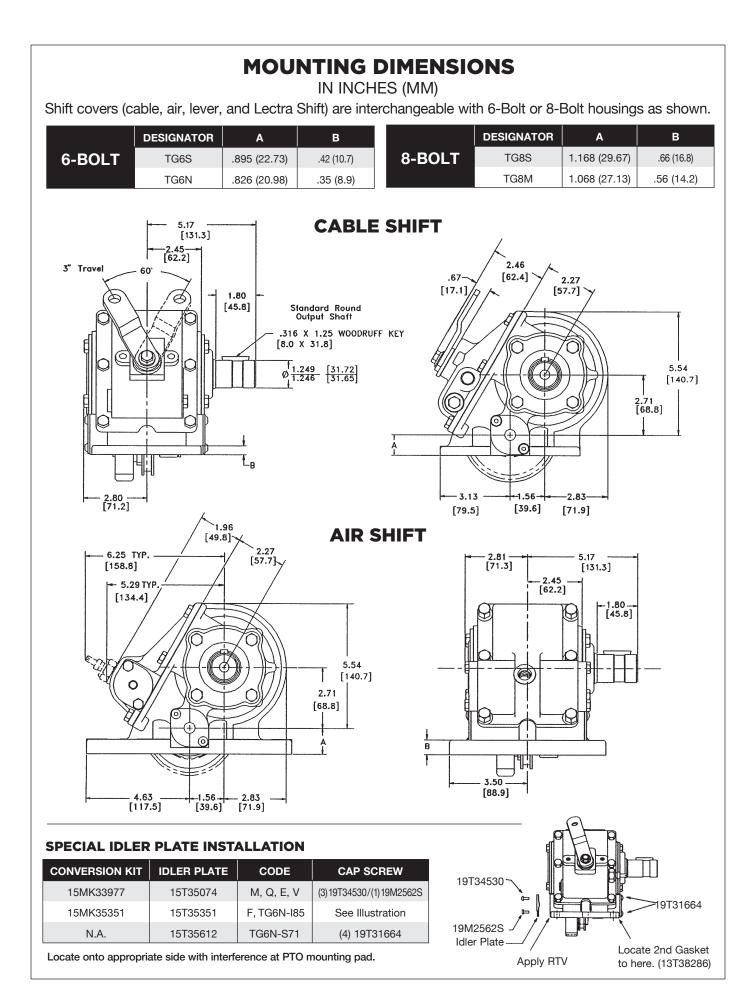
TG SERIES CLEARANCE IDLER CAP

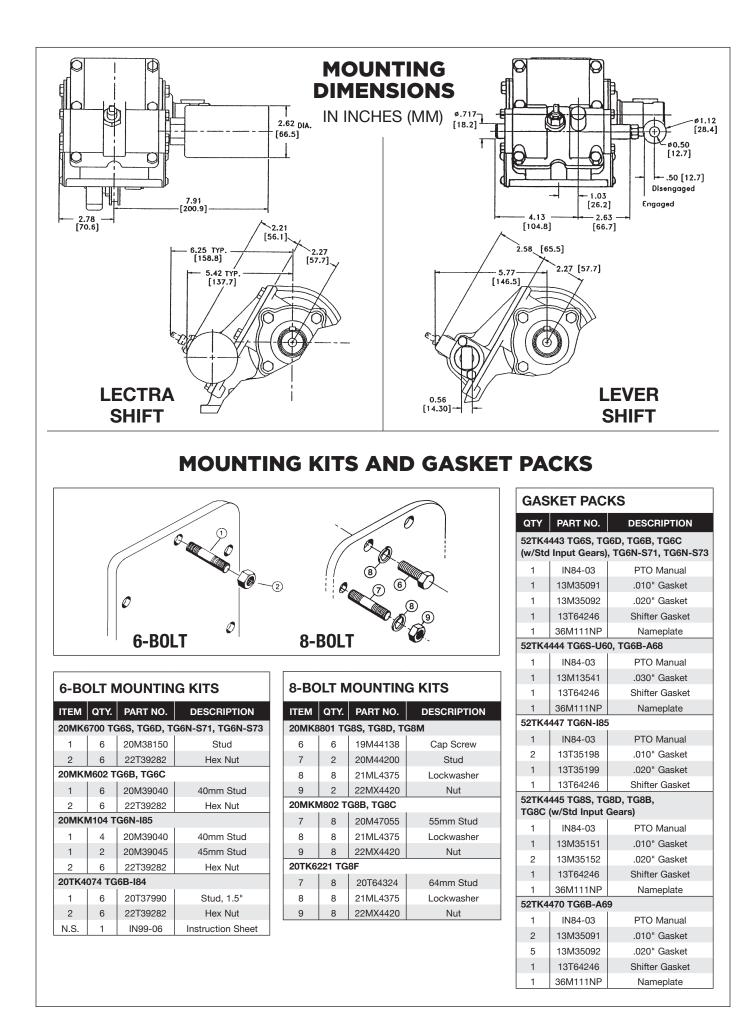
- 1. The "Clearance Idler Cap" is to be installed on the TG Series in the location where interference occurs (typically on the side opposite of the output shaft).
- 2. If an idler cap already exists, remove the cap and gasket.
- 3. On the side with the "Standard Cap" mount with two gaskets.
- 4. Use RTV # 598 Black recommended (not provided). Place gasket material in a small bead around the surface close to the bearing leaving a gap to prevent RTV from getting into the bearing.
- Install "Clearance Cap" with flat head cap screw closest to mounting pad and button-head cap Screw in upper position. Torque the flathead screw to 6 ft.lbs. and the button head to 8 ft.lbs.

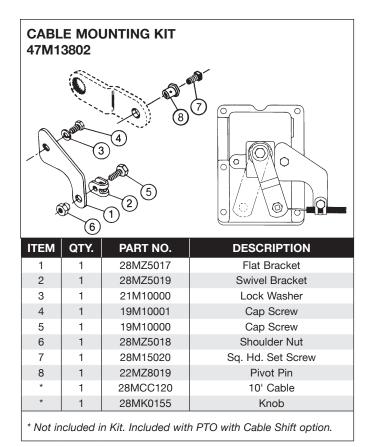












OPTIONAL ACCESSORIES

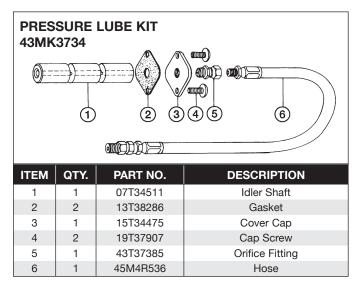
AWS-CT-12V Audible warning to indicate PTO engagement. Chime tone has various loudness (Db) adjustment. Attaches to standard PTO switch, not included.

47MGM165-3, 47MGM85-3, 47MGM55-3 Heavy duty cable shift bracket kits for push-pull type shift cables.

43MK8205 Lubrication Pump/Cooler System includes 12 V lube pump, oil cooler, temperature switch, hoses, connectors. For continuous duty applications on manual transmissions or transfer cases. 43TK6065P Same as above without oil cooler.

TG-RPS-A Air Pressure Switch Kit for indicator light when standard switch interferes with vehicle frame. Replaces mechanical switch on air shifted TG PTO with a pneumatic switch.

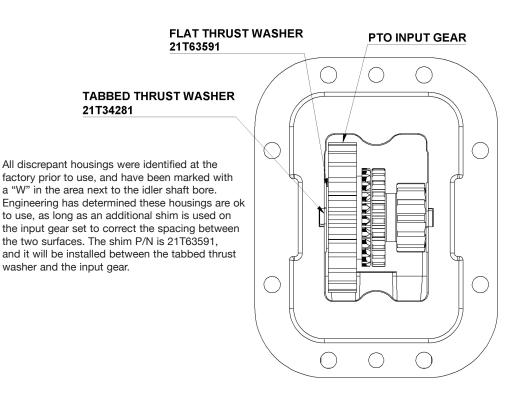
LABEL PACKETS					
QTY.	PART NO.	DESCRIPTION			
LABEL PACKET (STD) 36MK3841					
2	36M35644	Frame Label			
1	36T38634	Visor Label			
1	36M35652	Dash Label			
LABEL PACKET (184, 185, A69, U60) 36TK4667					
		D) 36TK4667			
		0) 36TK4667 Frame Label			
(184, 1	85, A69, U60	,			
(184, 1	8 5, A69, U6 0 36M35644	Frame Label			
(184, 18 2 1	85, A69, U60 36M35644 36T38634	Frame Label Visor Label			



	H LIGH (1210-/				
ITEM	QTY.	PART NO.	DESCRIPTION		
1	1	32M12001	Indicator Light		
2	1	33T36299	Fuse Holder		
3	1	36M16818	Dash Face Plate		
4	1 34T38163		Booted Connector		

TG8 HOUSING WITH "W" MARKED

Muncie Power has identified a limited number of TG8 housings that have been found to have excessive width between the two surfaces where the input gear set thrust washers seat against the housing the affected housing P/N is 01T34461.



Any PTO that bears the "W" mark in the are shown will always require the washer. The "W" was added internally on the PTO to help insure that the mark was protected and would be present when the PTO was disassembled.

For more information, contact Muncie Power Products Customer Service.





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