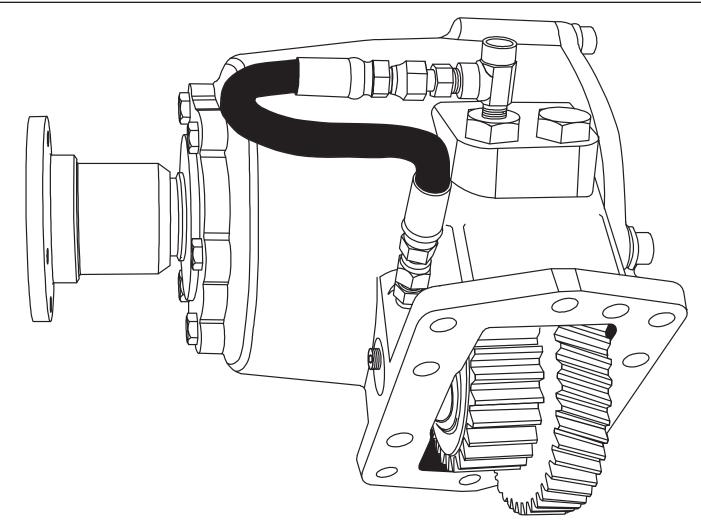
Muncie PTO brought to you by Pro Gear & Transmission



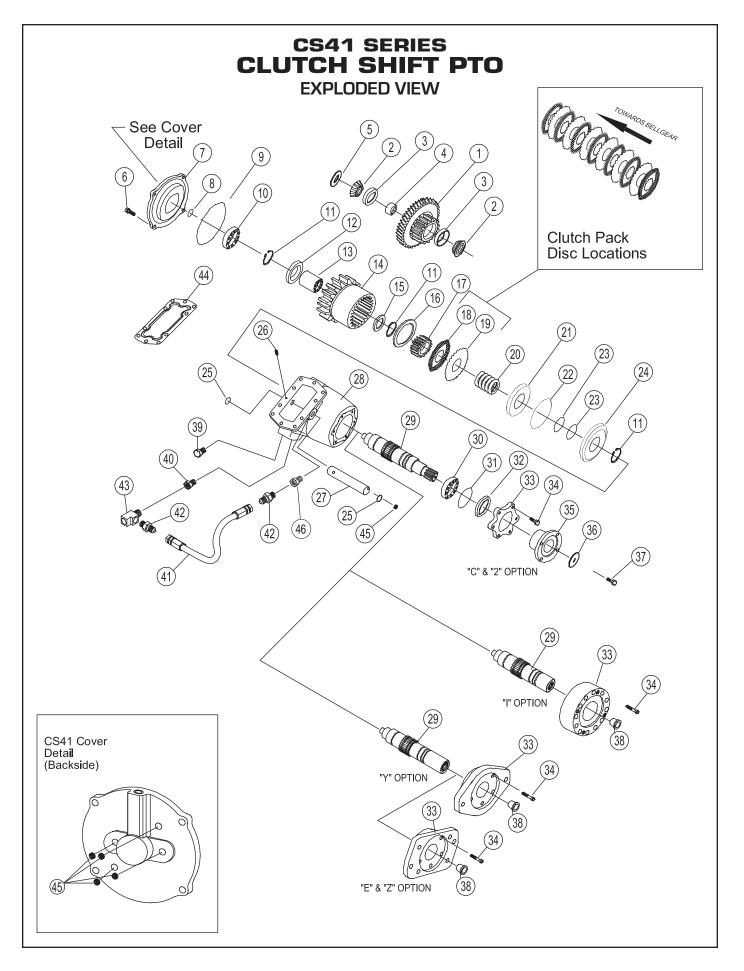
For Muncie PTO parts or service call Pro Gear & Transmission, Inc. 877-776-4600 / 407-872-1901 | parts@eprogear.com





Patent #2004200334

Muncie Power Products, Inc.



PARTS LIST AND DESCRIPTION

ITEM	QTY	PART NUMBER	DESCRIPTION	
1	1	03T38671* 03T39514* 03T38674* 03T40199* 03T40200*	Input Gear - A1007 Input Gear - A1010 Input Gear - A1012 Input Gear - C9507 Input Gear - C9510	
2	2	See Table A 10T38684*	Bearing	
3	2	10T38685*		
4	1	See Table B*	Bearing Cup Bearing Cone Spacer	
5	1	See Table D	Shim	
	* Part	t numbers for iden Items sold as sul	tification purposes only. b-assembly only.	
6	4	19T39418	Socket Capscrew	
7	1	15T39288	End Cover	
8	1	12T36081	O-Ring	
9	1	12T36207	O-Ring	
10	1	10T35994	Bearing	
11	3	24T36040	Snap Ring	
12	1	10T38691	Thrust Ring	
13	1	10T35991	Bearing	
14	1	02T38675 02T39516 02T38676	Output Ratio Gear – 07 (38T) Output Ratio Gear – 10 (32T) Output Ratio Gear – 12 (30T)	
15	1	10T38696	Thrust Ring	
16	1	28T38697	Spacer Ring	
17	1	49T38692	Clutch Hub	
18	7	49T38231	Friction Disc	
19	6	49T38230	Spacer Disc	
20	1	27T36112	Spring	
21	1	49T38693	Piston	
22	1	12T38665	O-Ring	
23	2	12T36053	O-Ring	
24	1	49T38694	Piston Cup	
25	2	12T35577	O-Ring	
26	1	19T36082	Set Screw	
27	1	07T38689	Idler Shaft	
28	1	01T38681 01T38683 01T40201 01T40202	Housing 3 Arrangement - A10 Housing 1 Arrangement - A10 Housing 3 Arrangement - C95 Housing 1 Arrangement - C95	

ITEM	QTY	PART NUMBER	DESCRIPTION	
29	1	06T38695	Output Shaft "2", "C"	
	1	06T39169	Output Shaft "E", "Z", "Y"	
	1	06T39151	Output Shaft "I"	
30	1	10T35775	Bearing	
31	1	12T35773	O-Ring	
32	1	11T37795	Shaft Seal	
33 1		15T39226	End Cover "2", "C"	
		14T36834	Hydraulic Flange "I"	
		14T40576	Hydraulic Flange "E"	
		14T36007	Hydraulic Flange "Y"	
		14T39188	Hydraulic Flange "Z"	
34	6	<mark>19T39417</mark> ——	Capscrew "2", "C" 19T3274	
		19T35386	Capscrew "I" Flange	
		19T31577	Capscrew "E", "Y", "Z" Flange	
35	1	14T37498	Flange "2"	
		14T31499	Flange "C"	
36	1	21T20092	Washer "2", "C"	
37	1	19T38266	Capscrew "2", "C"	
38	1	25T37767	Caplug "I" (Storage Only)	
		25T35936	Caplug "E", "Y", "Z" (Storage Only)	
39	1	25T35999	Plug	
40	1	25T35784	Orifice Fitting	
41	1	45T36308	Hose 10"	
42	2	43T37503	Fitting	
43	1	43T39129	Tee Fitting	
44	1	13T35777	Gasket	
45	5	25T21684	Pipe Plug 1/8"	
46	1	43M02203	Orifice Fitting	
N.S. 1 20MK1001		20MK1001	Standard Stud Kit - A10	
			See pg. #8	
		20TK4618	Special Stud Kit - A10	
		20TK4846	Standard Stud Kit - C95	
N.S.	1	48TK4894	Installation Kit 12VDC - A10	
		48TK4893	Installation Kit 24VDC - A10	
		48TK4039	Installation Kit 12VDC - C95	
N.S.	1	CS41-RBK	Rebuild Kit Incl.: (1) 8, (1) 9, (1) 10,	
			(3) 11, (1) 12, (1) 13, (1) 15, (1) 16, (7)	
			18, (6)19, (1) 20, (1) 22, (2) 23, (2) 25,	
			(1) 26, (1) 30, (1) 31, (1) 32, (1) 44	
			Note: Rebuild Kit does not	
			include input components. Input components are sold	
			separately.	
N.S.	1	CS41-GSK	Gasket Kit Incl.: (1) 8, (1) 9, (1) 22,	
	· ·		(2) 23, (2) 25, (1) 31, (1) 32, (1) 44	

CS41 DISASSEMBLY & REASSEMBLY

(REFERENCE EXPLODED VIEW ON PAGE 2)

DISASSEMBLY PROCEDURE

- 1. Remove CS41 input gear, by removing the set screw in the pad and driving idler shaft from housing *(26, 27)*.
- 3. Remove the four large socket capscrews (4) which hold bearing cover to PTO housing.
- 4. Position housing against a bench block and hit end of output shaft with a soft face hammer to remove entire output shaft assembly with bearing cover.
- 5. Remove the two pipe plugs (45) from bearing cover. This exposes ball bearing assembly within the cover.
- 6 Using a 1/4" punch and alternating between the two holes, drive bearing and shaft assembly from bearing cover.
- Using snap ring pliers, remove snap ring (11) located on output shaft end while gently pushing on piston cup (24).
- 8. Pull piston cup (24) from the shaft and piston (21) will go with it.
- 9. Tap piston cup on a wood surface to remove piston.
- 10. Remove spring (20). The clutch friction discs (18), spacer disc (19), spacer ring (16), and inner clutch hub (17) can be removed by pointing shaft end down.
- 11. The snap ring (11) on opp end of bell gear can be removed with snap ring pliers. This allows bell gear to be removed towards closed end. The internal bearing (13) of bell gear can easily be removed.

REASSEMBLY PROCEDURE

- 12. The reassembly of the unit is made in reverse of the disassembly.
- 13. Be sure to lubricate o-rings and all bearings upon installation. Torque capscrews to values shown or to following values:

5/16 capscrews - 18 ft. lb. 3/8 capscrews - 36 ft. lb. 1/4 set screw - 9 ft. lb.

- Place input bearing into input gear and slide this group into housing to line up idler shaft.
- $\overline{15}$ Tap idler shaft into housing and through both bearing races.
- Tap idler shaft in reverse direction so that it is flush with bearing in this assembly. Insert thickest shim that can be **installed by hand** in gap between bearing and housing. Rotate input gear to ensure it is not excessively tight or loose. Recommended bearing pre-load is .002" loose to .006" loose.

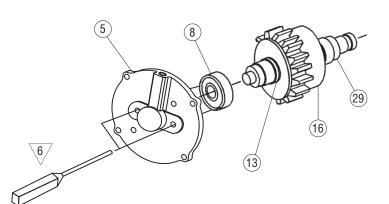
 $\sqrt{17}$ Tap idler shaft into position and install set screw.

15

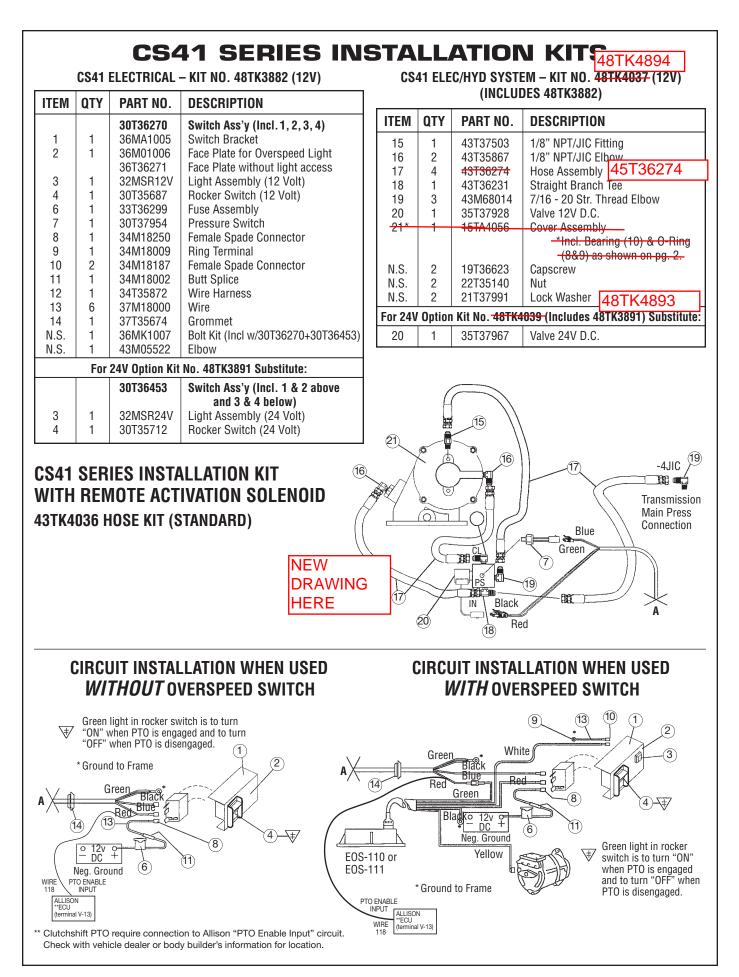
14

TAPER ROLLER BEARINGS





 \bigtriangledown – denotes special service procedures



CS41 SERIES LUBE HOSE INSTALLATION

INSTALLATION TIPS:

Do not use Teflon tape on pipe threads. If sealant is to be used, it is recommended that paste style thread sealant or Loctite® pipe thread sealant be used. Allow the proper drying times before pressurizing. See manufacturers instructions.

CS41/CD40 WITH LUBE HOSE ALREADY INSTALLED INTO END OF IDLER SHAFT (FIG. 1)

Remove the hose from the fittings (2). Remove both fittings at the idler shaft and discard the silver 90 degree fitting. Remove the pipe plug from the housing and install it in the end of the idler shaft (3). Remove the street tee and hose fitting from the lube port below the model tag. Install PTO onto the transmission. Install the street tee, 43M02203 straight orifice fitting and hose fittings and tighten as shown in (5). Install hose as shown in (6) and tighten being careful not to twist the hose.

CS41/CD40 WITHOUT LUBE HOSE INSTALLED (FIG. 3)

If the 1/8" pipe plug is located in the housing port above the idler shaft, remove and install it in the end of the idler shaft (3). Locate the lube hose, hose fittings, 43M02203 straight orifice fitting and street tee (4). Install PTO onto the transmission. Install the street tee, 43M02203 straight orifice fitting and hose fittings and tighten as shown in (5). Install hose as shown in (6) and tighten being careful not to twist the hose.

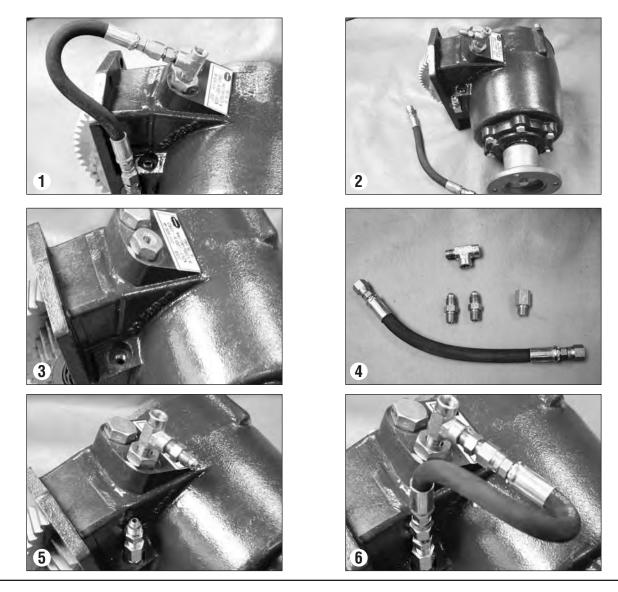
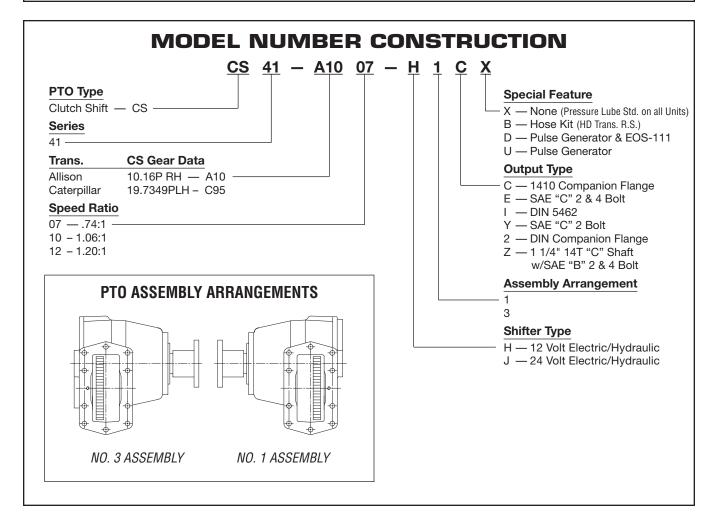


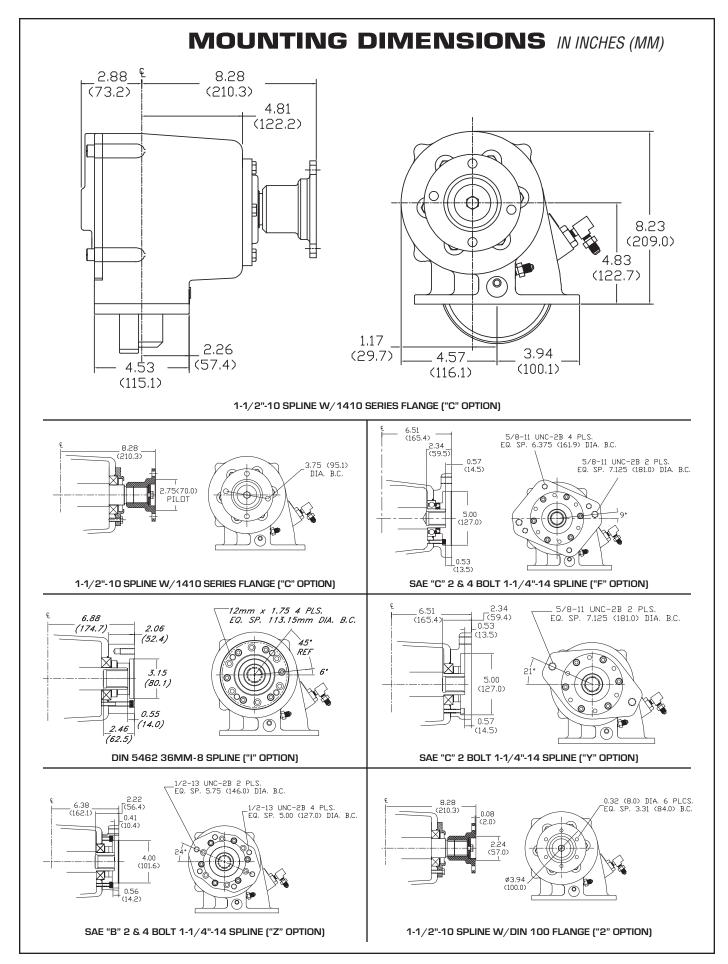
TABLE A – ITEM #1 INPUT GEAR					
Input Gear Sold as Sub-Assembly Only					
SUB-ASS'Y	INPUT GEAR	DESCRIPTION (#T)			
03TA4826	03T38671	Input Gear - A1007 (50/28)			
03TA4827	03T39514	Input Gear - A1010 (50/34)			
03TA4828	03T38674	Input Gear - A1012 (50/36)			
03TA4937	03T40199	Input Gear - C9507 (45/28)			
03TA4938	03T40200	Input Gear - C9510 (45/34)			
Input sub-ass	embly includes: i	nput gear, cone bearings,			
bearing cups	and cone spacer.				
TABLE	B – ITEM #	4 CONE SPACER			
SPACER	DESCRIPT	ION DIMENSION			
18T39242	Cone Space	er 0.798 / 0.796			
18T39243	Cone Space	er 0.795 / 0.793			
18T39244	Cone Space	er 0.792 / 0.790			
18T39245	Cone Space	er 0.789 / 0.787			
18T39246	Cone Space	er 0.786 / 0.784			
18T39247	Cone Space	er 0.783 / 0.781			
18T39248	Cone Space	er 0.780 / 0.778			
18T39249	Cone Space	er 0.777 / 0.775			
18T39250	Cone Space	er 0.774 / 0.772			
18T39970	Cone Space	er 0.801 / 0.799			
18T39971	Cone Space	er 0.804 / 0.802			
18T39972	Cone Space	er 0.807 / 0.805			
18T39973	Cone Space	er 0.810 / 0.808			
18T39974	Cone Spacer 0.813 / 0.811				
18T39975 Cone Spacer 0.816 / 0.814					
Only one spacer is used in input sub-assembly.					

TABLE	C – ITEM	#5 BEAF	RING SHIM

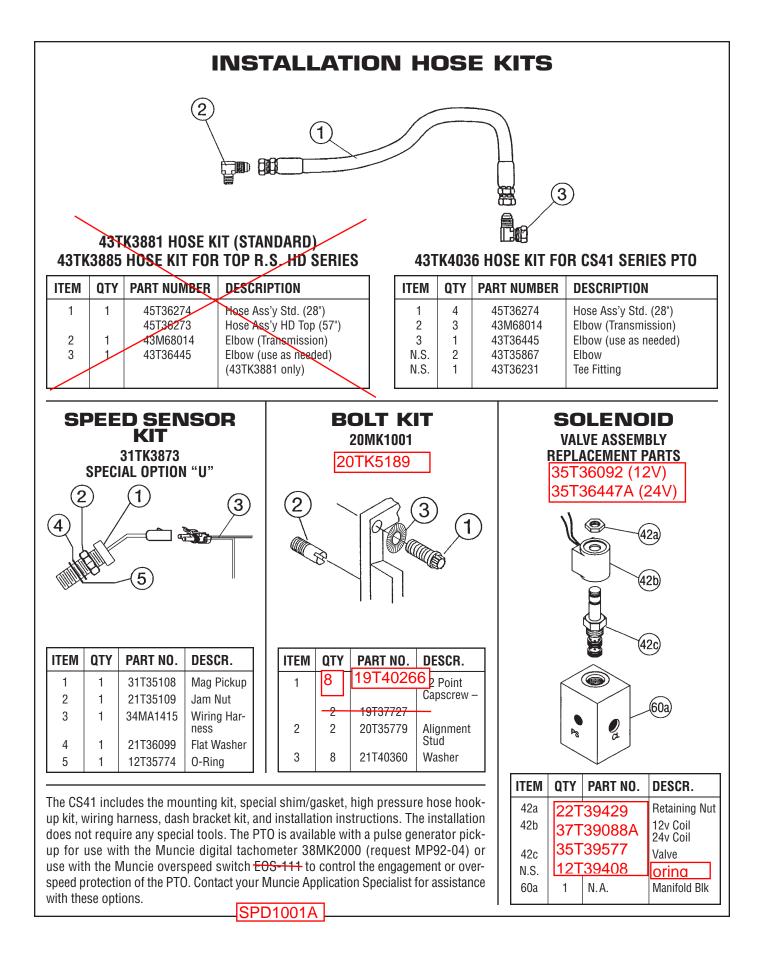
SHIM	DESCRIPTION	DIMENSION
18T39227	Bearing Shim	0.0650 / 0.0630
18T39228	Bearing Shim	0.0675 / 0.0655
18T39229	Bearing Shim	0.0700 / 0.0680
18T39230	Bearing Shim	0.0725 / 0.0705
18T39231	Bearing Shim	0.0750 / 0.0730
18T39232	Bearing Shim	0.0775 / 0.0755
18T39233	Bearing Shim	0.0800 / 0.0780
18T39234	Bearing Shim	0.0825 / 0.0805
18T39235	Bearing Shim	0.0850 / 0.0830
18T39236	Bearing Shim	0.0875 / 0.0855
18T39237	Bearing Shim	0.0900 / 0.0880
18T39238	Bearing Shim	0.0925 / 0.0905
18T39239	Bearing Shim	0.0950 / 0.0930
18T39240	Bearing Shim	0.0975 / 0.0955
18T39241	Bearing Shim	0.1000 / 0.0980

Only one shim is used in assembly of the PTO. Kit 18TK4832 includes one of each.





MUNCIE POWER PRODUCTS, INC.





If you have any questions about any Munice Product, do not hesitate to call us so we can help you with finding the right PTO, part or anything else you may need.

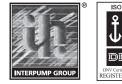
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