

Muncie CS41 Series PTO Parts & Service Manual

Pro Gear presents Muncie CS41 Series PTO Parts & Service Manual to assist in identifying the parts for your Muncie Power Take Off unit.

If you need any assistance identifying the correct Power Take Off unit for your truck and equipment, contact your Muncie replacement part specialists at Pro Gear and Transmission.

Pro Gear stocks every part for your Muncie PTO including: PTO housings, mounts, driveshafts, gears, bearings, gaskets, cable shift cover assembly, post and plate assembly, brackets, stud kits, seal kits, lever control assembly, air shift cover assembly, direct mount pump conversion kits, stud kits including English and metric references, and much more.

Pro Gear Transmission has same day shipping and 1000's of products in stock and ready to ship internationally for your next project.

For parts or service contact the Muncie specialists at Pro Gear & Transmission, Inc.

1 (877) 776-4600 (407)/872-1901 parts@eprogear.com

Check Inventory

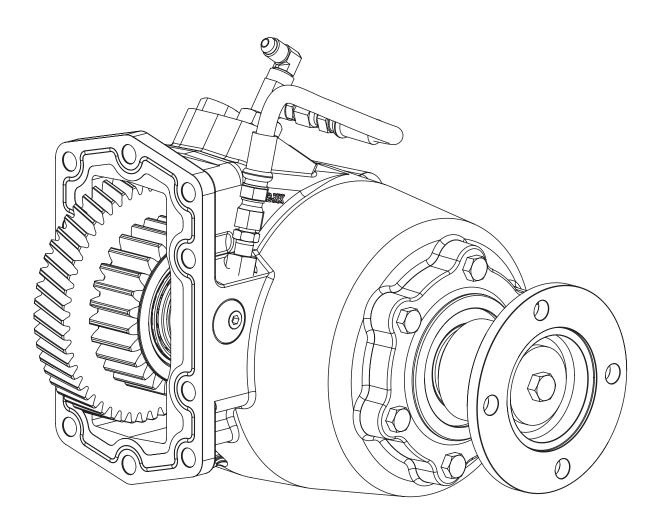
Email Us

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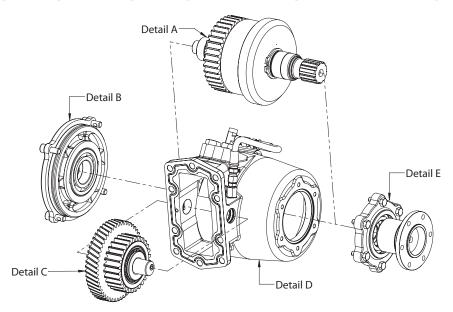


CS40/41 SERIES CLUTCH SHIFT PTO

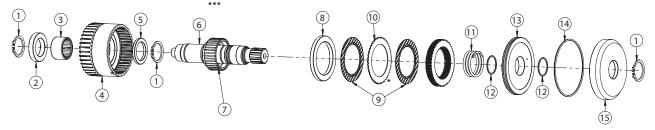
PARTS LIST AND SERVICE MANUAL



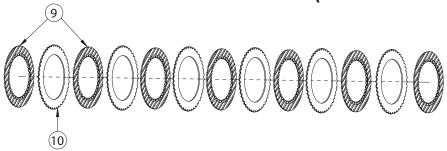
CS41 SERIES PTO - EXPLODED VIEWS



DETAIL A – OUTPUT SHAFT ASSEMBLY (FOR UNITS WITH DATE CODE 10/13 AND LATER)



DETAIL AA – CLUTCH PACK ASSEMBLY (DISC LOCATIONS)*



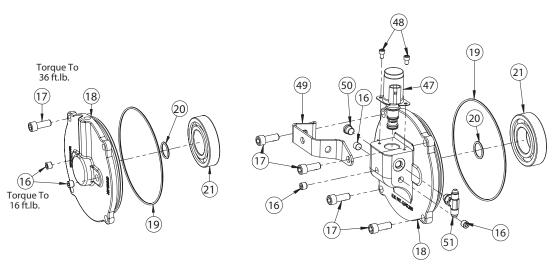
ITEM	QTY	PART NO	DESCRIPTION
1	3	24T36040	Snap Ring***
2	1	10T38691	Thrust Ring
3	1	10T62370	Needle Bearing
4**	1	02T42697	Output Ratio Gear - 07
		02T42700	Output Ratio Gear - 10
		02T42701	Output Ratio Gear - 12
5	1	10T38696	Thrust Ring
6***	1	06TA6094	Output Shaft "2" & "C"
		06TA6095	Output Shaft "E", "Y" & "Z"
		06TA6906	Output Shaft "P"
	1	06TA6097	Output Shaft "I"

ITEM	QTY	PART NO	DESCRIPTION
7			Included with 06TA assembly
8	1	28T38697	Spacer Ring
9	7	49T38231	Friction Disc
10	6	49T38230	Spacer Disc
13	1	49T38693	Piston
14	1	12T38665	O-Ring
15	1	49T38694	Piston Cup

- * The clutch pack assembly contains a single stator plate stacked between each friction disc. The assembly should begin and end with a friction disc.
- ** Input and output gears should be sold as set. (PTO with build date code prior to 10/13 cannot interchange with individual components. Purchase input gear and output gear as a set.)
- *** Items 6 and 7 are press fit together, and are ordered as a set.

Pro Gear and Transmission, Inc. | 906 West শুণাৰ se, তাৰিনেনি separates of Includes qty. 1 of item #1)

DETAIL B - END COVER ASSEMBLY

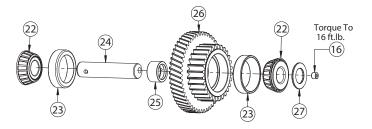


CS41 Rear Cover

CS40 Rear Cover

ITEM	QTY	PART NO	DESCRIPTION
16	3	25T21684	Plug
17	4	19T39418	Capscrew
18	4	15T39288	End Cover (CS41)
10	I	15T42546	End Cover (CS40)
19	1	12T36207	0-Ring
20	1	12T36081	0-Ring
21	1	10T35994	Bearing
47	4	35T40860	12VDC Solenoid Valve
47	I	35T40864	24VDC Solenoid Valve
48	2	19T40859	Solenoid Capscrews
49	1	49T36493	Solenoid Protection Bracket
50	1	25T41463	Plug
51	1	43T36231	Tee Fitting

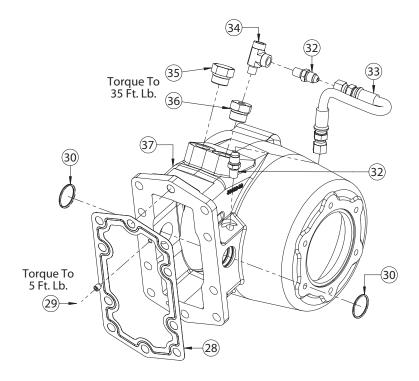
DETAIL C - IDLER SHAFT ASSEMBLY



ITEM	QTY	PART NO	DESCRIPTION
16	1	25T21684	Plug
22	2	10T38684	Tapered Roller Bearing
23	2	10T38685	Bearing Cup
24	1	07T38689	Idler Shaft
25	1	See Table A	Bearing Cone Spacer
26	1	See Table B	Input Gear
27	1	See Table C	Shim

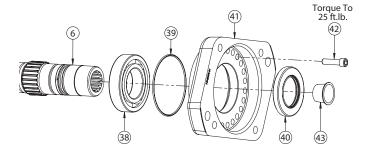
DETAIL D - PTO HOUSING ASSEMBLY

ITEM	QTY	PART NO	DESCRIPTION
28	1	13T35777	Gasket
29	1	19T36082	Set Screw
30	2	12T35577	O-Ring
31	1	43M02203	Orifice Fitting
32	2	43T37503	Fitting
33	1	45T36308	Hose 10"
34	1	43T39129	Tee Fitting
35	1	25T35999	Plug
36	1	25T35784	Orifice Fitting
37	1	01T42634	Housing – 3 Arr A10
		01T42635	Housing – 1 Arr A10

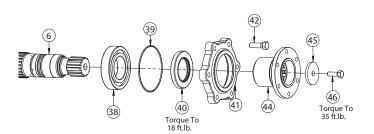


DETAIL E - OUTPUT OPTIONS

ITEM	QTY	PART NO	DESCRIPTION
6**	1		Output Shaft - See page 2
38	1	10T35775	Bearing
39	2	12T35773	O-Ring
40	1	11T64141	Shaft Seal
41	1	15T39226	Cover "2" & "C"
		14T36834	Hydraulic Flange "I"
		14T40576	Hydraulic Flange "E"
		14T43198	Hydraulic Flange "V" *
		14T36007	Hydraulic Flange "Y"
		14T39188	Hydraulic Flange "Z"
42	6	19T32740	Capscrew "2" & "C"
		19T35386	Capscrew "I" Flange
		19T31577	Capscrew "E", "Y" & "Z"
43	1	14T37498	Flange "2"
		14T31499	Flange "C"
44	1	21T20092	Washer "2" & "C"
45	1	19T38266	Capscrew "2" & "C"
46	1	25T37767	Cap Plug "I" (Storage Only)
		25T35936	Cap Plug "E", "Y" & "Z" (Storage Only)



Standard Output Option – "E", "I", "P", "V", "Y" & "Z"



"2" & "C" Output Option

^{**}Shaft sold as a sub-assembly only, see page 3.

TABLES A, B, AND C

Table A - Bearing Cone Spacer (Item 25)

PART NO	DESCRIPTION	DIMENSION
18T39242	Cone Spacer	(0.789 / 0.796)
18T39243	Cone Spacer	(0.795 / 0.793)
18T39243	Cone Spacer	(0.792 / 0.790)
18T39245	Cone Spacer	(0.789 / 0.787)
18T39246	Cone Spacer	(0.786 / 0.784)
18T39247	Cone Spacer	(0.783 / 0.781)
18T39248	Cone Spacer	(0.780 / 0.778)
18T39249	Cone Spacer	(0.777 / 0.775)
18T39250	Cone Spacer	(0.774 / 0.772)
18T39970	Cone Spacer	(0.801 / 0.799)
18T39971	Cone Spacer	(0.804 / 0.802)
18T39972	Cone Spacer	(0.807 / 0.805)
18T39973	Cone Spacer	(0.810 / 0.808)
18T39974	Cone Spacer	(0.813 / 0.811)
18T39975	Cone Spacer	(0.816 / 0.814)

Note: Only one spacer is used in input sub-assembly.

Table B - Input Gear (Item 26) - For PTO date codes 10/13 and later

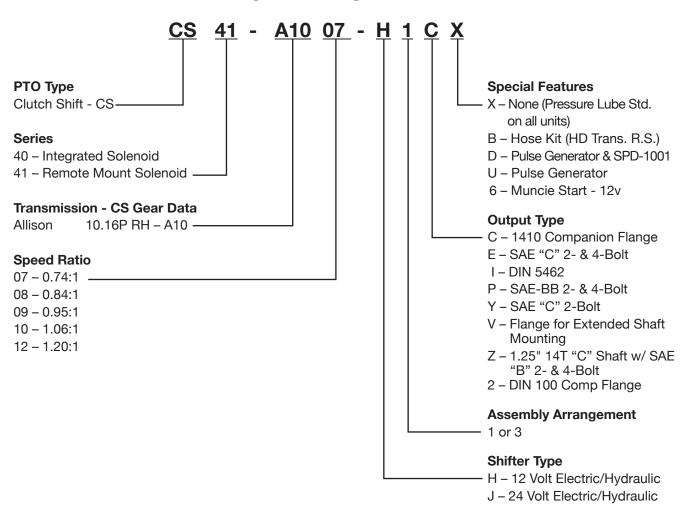
SUB-ASS'Y	INPUT GEAR	DESCRIPTION (# OF TEETH)
03TA4718	03T42692	Input Gear - A1007
03TA4719	03T42693	Input Gear - A1008
03TA4720	03T42694	Input Gear - A1009
03TA4721	03T42695	Input Gear - A1010
03TA4722	03T42696	Input Gear - A1012

Note: Input sub-assembly includes – Input Gear, Cone Bearings,
Bearing Cups & Cone Spacer.
For PTO with build date code prior to 10/13, this input assembly and
output gear (#4) must be purchased as a set

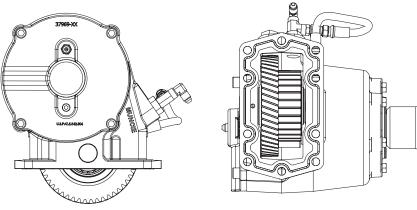
Table C - Bearing Shim (Item 27)

DADT NO	DECODIDATION	DIMENCION
PART NO	DESCRIPTION	DIMENSION
18T42638	Bearing Shim	(0.0630 / 0.0630)
18T42639	Bearing Shim	(0.0655 / 0.0635)
18T42640	Bearing Shim	(0.0680 / 0.0660)
18T42641	Bearing Shim	(0.0705 / 0.0685)
18T42642	Bearing Shim	(0.0730 / 0.0710)
18T42643	Bearing Shim	(0.0755 / 0.0735)
18T42644	Bearing Shim	(0.0780 / 0.0760)
18T42645	Bearing Shim	(0.0805 / 0.0785)
18T42646	Bearing Shim	(0.0830 / 0.0810)
18T42647	Bearing Shim	(0.0855 / 0.0835)
18T42648	Bearing Shim	(0.0880 / 0.0860)
18T42649	Bearing Shim	(0.0905 / 0.0885)
18T42650	Bearing Shim	(0.0930 / 0.0910)
18T42551	Bearing Shim	(0.0955 / 0.0935)
18T42652	Bearing Shim	(0.0980 / 0.0960)
18T42653	Bearing Shim	(0.1005 / 0.0985
18T42654	Bearing Shim	(0.1030 / 0.1010)

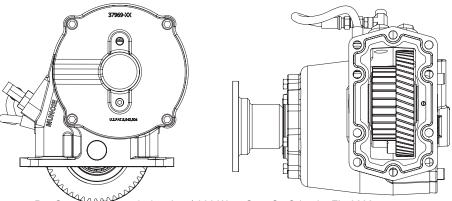
MODEL NUMBER







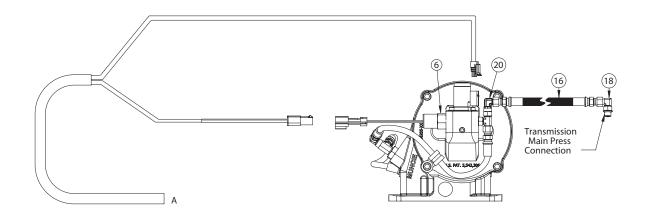
No. 3 Assembly



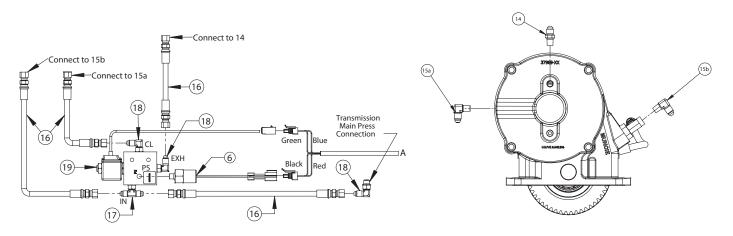
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CS40 ACTIVATION KITS



CS41 ACTIVATION KITS



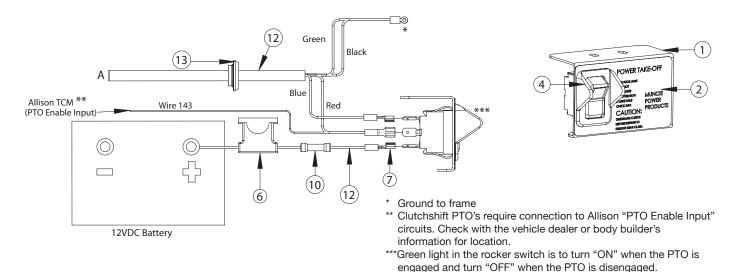
CS41 Electrical System - 48TK3882 (12VDC), 48TK3891 (24VDC)

ITEM	QTY	PART NO	DESCRIPTION
1	1	36MA1005	Switch Bracket
2	1	36M01006	Face Plate for Overspeed Light
2	1	36T36271	Face Plate Without Overspeed Light
3	1	32MSR12V	Light Assembly 12V
3a	1	32MSR24V	Light Assembly 24V
4	1	30T35687	Rocker Switch 12V
4a	1	30T35712	Rocker Switch 24V
5	1	33T36299	Fuse Assembly
6	1	30T60228	Pressure Switch
7	3	34M18250	Female Spade Connector
8	1	34M18009	Ring Terminal
9	2	34M18187	Female Spade Connector
10	1	34M18002	Butt Splice
11	1	34T35872	Wire Harness
12	1	37T42506	Wire Harness
13	1	37T35674	Grommet
N.S.	1	36MK1007	Bolt Kit
N.S.	1	43M05522	Elbow

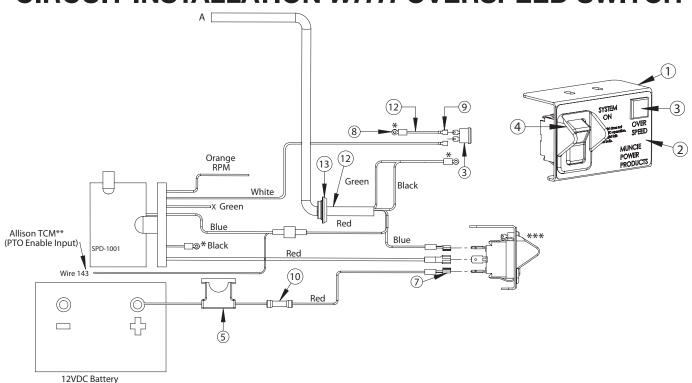
For 24V option - 48TK3891:

Include items 1 & 2 and substitute items 3 & 4 with 3a & 4a. Pro Gear and Transmission, Inc. | 906 West Gore St, Orlando, FL 32805

CIRCUIT INSTALLATION WITHOUT OVERSPEED SWITCH



CIRCUIT INSTALLATION WITH OVERSPEED SWITCH



CS41 Elec/Hyd System – 48TK4894 (12V) CS40 Elec/Hyd System – 48TK4892 (12V) (Both Kits Include 48TK3882)

CS41 - For 24V option - 48TK4893 (Includes 48TK3891):

ITEM	QTY	PART NO	DESCRIPTION
14	1	43T37503	1/8" NPT/JIC Fitting
15A 15B	1	43T35867	1/8" NPT/JIC Elbow
16A	4	45T36274	Hose Assembly
17	1	43T36231	Straight Branch Tee
18	3	43M68014	7/16-20 Straight Thread Elbow
19A	1	35T37928	Valve 12VDC
19B	ı	35T37967	Valve 24VDC

CS41 DISASSEMBLY AND REASSEMBLY

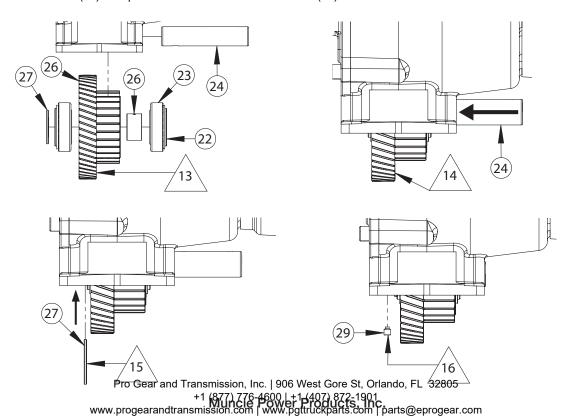
(Reference Exploded View on Pages 2 & 3)

Disassembly Procedure

- 1. Remove the CS41 input gear (26) by removing the set screw (29) in the mounting pad and driving the idler shaft (24) from the PTO housing (37).
- 2. Remove the four large socket capscrews (17) from the bearing cover (18).
- 3. Position the housing against a bench block and hit the end of the output shaft (6) with a soft face hammer to remove the entire output shaft assembly with the bearing cover (18).
- 4. Remove the two pipe plugs (16) from the bearing cover (18) to expose the ball bearing assembly within the cover.
- 5. Using a ¼" punch and alternating between the two holes drive the bearing and output shaft assembly from the bearing cover (18).
- 6. Using snap ring pliers, remove the snap ring (1) located on the output shaft end while gently pushing on the piston cup (15).
- 7. Pull the piston cup (15) from the shaft and the piston (13) will go with it.
- 8. Tap the piston cup on a wood surface to remove the piston.
- 9. Remove the spring (11). The clutch friction discs (9), spacer discs (10), and spacer ring (8) can be removed by pointing the shaft end down.
- 10. The snap ring (1) on the opposite end of the bell gear can be removed with snap ring pliers. This allows the thrust ring (2) and the bell gear (4) to be removed towards the closed end. The internal bearing (3) of the bell gear can then be removed.

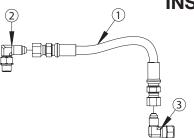
Reassembly Procedure

- 11. The reassembly of the unit is made in reverse of the disassembly. The re-use of seals, o-rings and snap rings are not recommended. See page (4) for gasket and rebuild kits.
- 12. Be sure to lubricate all O-rings and bearings upon installation. Torque all the capscrews to the appropriate values or to the following values: 5/16" Capscrews 18 ft.lb.; 3/8" Capscrews 36 ft.lb.; 1/4" Set Screw 9 ft.lb.
- 13. The input gear (26) is replaced as a set which includes the gear (26), cone spacer (25), bearings (22/23) and a shim (27). Slide this sub assembly into the housing to line up the idler shaft (24).
- 14. Insert the input gear assembly into the housing. Tap the idler shaft (24) into the housing and through each of the bearing races.
- 15. Tap the idler shaft in the reverse direction so that it is flush with the bearing in this assembly. Next, place the shim (27) between the bearing (22/23) and the housing (on the set screw side of the mounting pad). Rotating the gear to make sure it easily rotates. The recommended bearing pre-load is .002" to .006" loose (the cone spacer sets this pre-load and the measurement is not required).
- 16. Tap the idler shaft (24) into position and install the set screw (29).



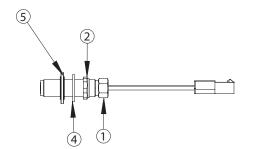
ACCESSORY KITS

INSTALLATION HOSE KIT

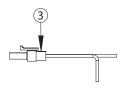




ITEM	QTY	PART NO	DESCRIPTION
1	4	45T36274	Hose Assembly Std. (28")
2	3	43M68014	Elbow (Transmission)
3	1	43T36445	Elbow (As needed)
N.S.	2	43T35867	Elbow
N.S.	1	43T36231	Tee Fitting



SPEED SENSOR KIT



31TK3873 – Speed Sensor Kit for Special Option "U"

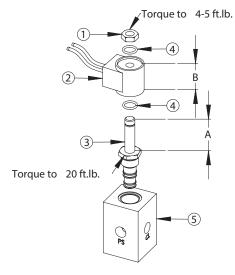
ITEM	QTY	PART NO	DESCRIPTION
1	1	31T35108	Mag Pickup
2	1	21T35109	Jam Nut
3	1	34MA1415	Wiring Harness
4	1	21T36099	Flat Washer
5	1	12T35774	O-Ring

BOLT KIT

Torque capscrews and studs to **45 ft.lb. 20TK6353** – Bolt Kit for CS40/41 Series PTO

QTY	PART NO	DESCRIPTION
8	19T64314	Capscrew
2	30T62753	Alignment Stud
8	21T64303	Flat Washer

CS41 SOLENOID



ITEM	QTY	PART NO	DESCRIPTION
1	1	22T39429	Nut
2	1	37T39088A	12V Coil
	1	37T38997A	24V Coil
3*	1	35T39577	Stem
4	2	12T39408	O-Ring
5	1	N/A	Manifold Block

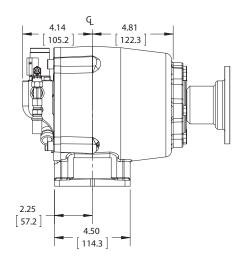
Dim A = 1.84 Dim B = 1.77 *3 is NOT sold separately

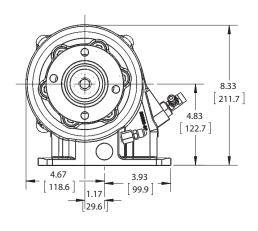
REBUILD AND GASKET KITS

ITEM	QTY	PART NO	DESCRIPTION
1	1	CS41-RBK	Rebuild Kit Includes: [(3)1, (1)2, (1)3, (1)5, (1)8, (7)9, (6)10, (1)11, (2)12, (1)14, (1)19, (1)20, (1)21, (1)28, (1)29, (2)30, (1)38, (1)39, (1)40]
2	1	CS41-GSK	Gasket Kit Includes: [(2)12, (1)14, (1)19, (1)20, (1)28, (2)30, (1)39, (1)40]

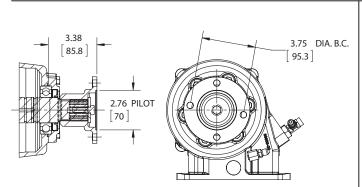
IMPORTANT: The CS40/41 includes the mounting kit, special shim/gasket, high pressure hose hook-up kit, wiring harness, dash bracket kit and installation instructions. The PTO is available with a pulse generator pickup for use with the Muncie Power overspeed switch SPD-1001 to control the engagement or overspeed protection of the PTO. Contact your Muncie Power Application Specialist for assistance weith the specialist of the Septianto, FL 32805

MOUNTING DIMENSIONS IN INCHES (MM)

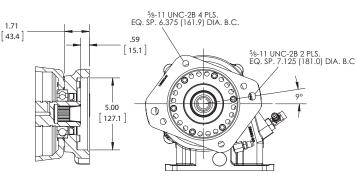




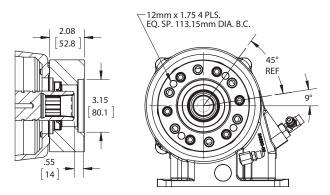
11/2"-10 SPLINE W/1410 SERIES FLANGE ("C"OPTION)



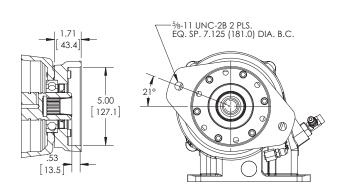
11/2"-10 SPLINE W/1410 SERIES FLANGE ("C")



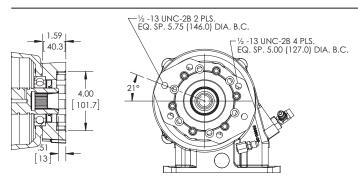
SAE "C" 2 & 4-BOLT 11/4"-14 SPLINE ("E")



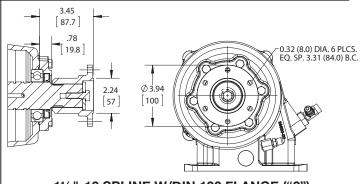
DIN 5462 36MM-8 SPLINE ("I")



SAE "C" 2-BOLT 11/4"-14 SPLINE ("Y")



SAE "B" 2 & 4-BOLT 11/4"-14 SPLINE ("Z")



11/2"-10 SPLINE W/DIN 100 FLANGE ("2")

