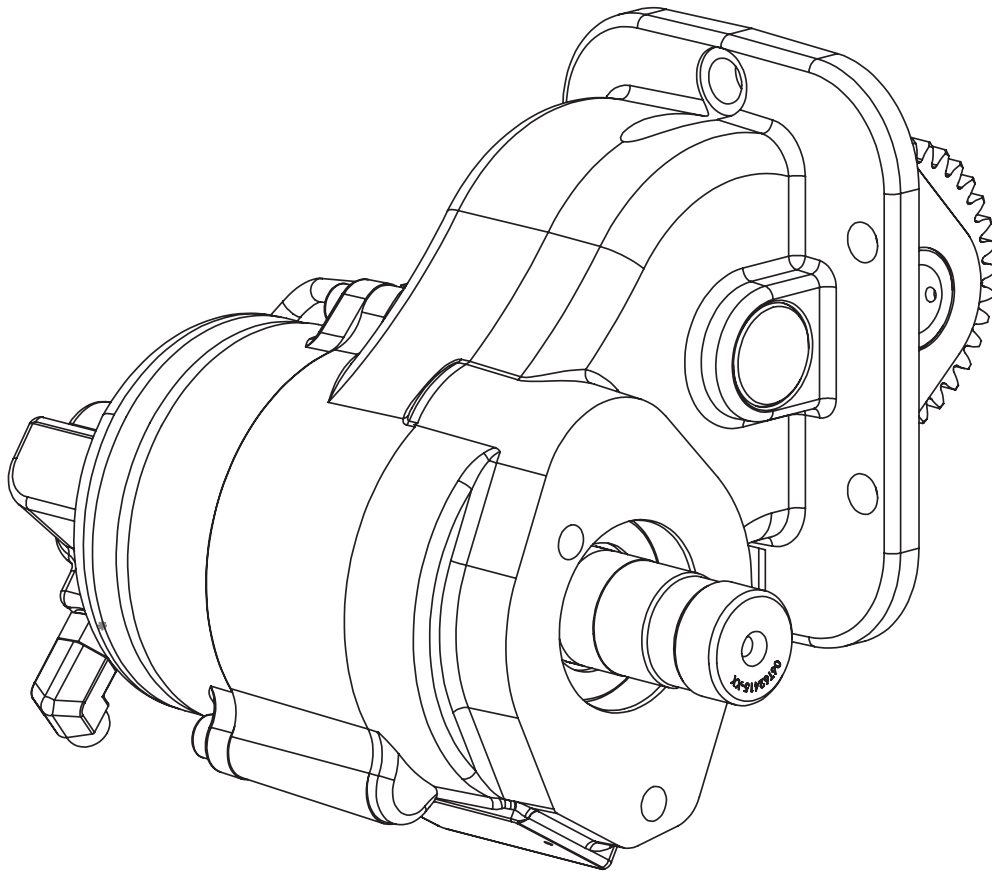




Muncie®
Power
Products

FR6Q PTO

PARTS LIST AND SERVICE MANUAL



MODEL NUMBER CONSTRUCTION

FR6Q - F12 09 - D 3 Q X

PTO Series

FR6Q — Ford 6-Bolt Quiet

Transmission Input Gear Option

F12 — Ford 6R140

Speed Ratio Option

09 — .90:1

Shift Options *

6 — Elec./Hyd. 2016 & Later F-650–F-750 Diesel Engine
2017 & Later F-250–F-550 Diesel Engine

F — Elec./Hyd. 2016 & Later F-650/F-750 Gas Engine
2017 & Later F-250–F-550 Gas Engine

D — Elec./Hyd. 2016 & Earlier F-250–F-550 Diesel Engine

G — Elec./Hyd. 2015 & Earlier F-650–F-750 Gas Engine

Assembly Arrangement Option

3 — Left Side Shaft Low

Output Options *

B — 1¼" Round Keyed Shaft (4×2 Only)

N — SAE ¾" -11T, MPP "N" Pump Mount

Q — SAE "B" 7/8" -13T, SAE "A" 2-Bolt (4×2 Only)

T — SAE ¾" -11T, SAE "A" 2-Bolt (4×2 Only)

Special Feature Options

X — None

B — Stationary **AND** Mobile (Only available on 6, F, & D Shift Options)

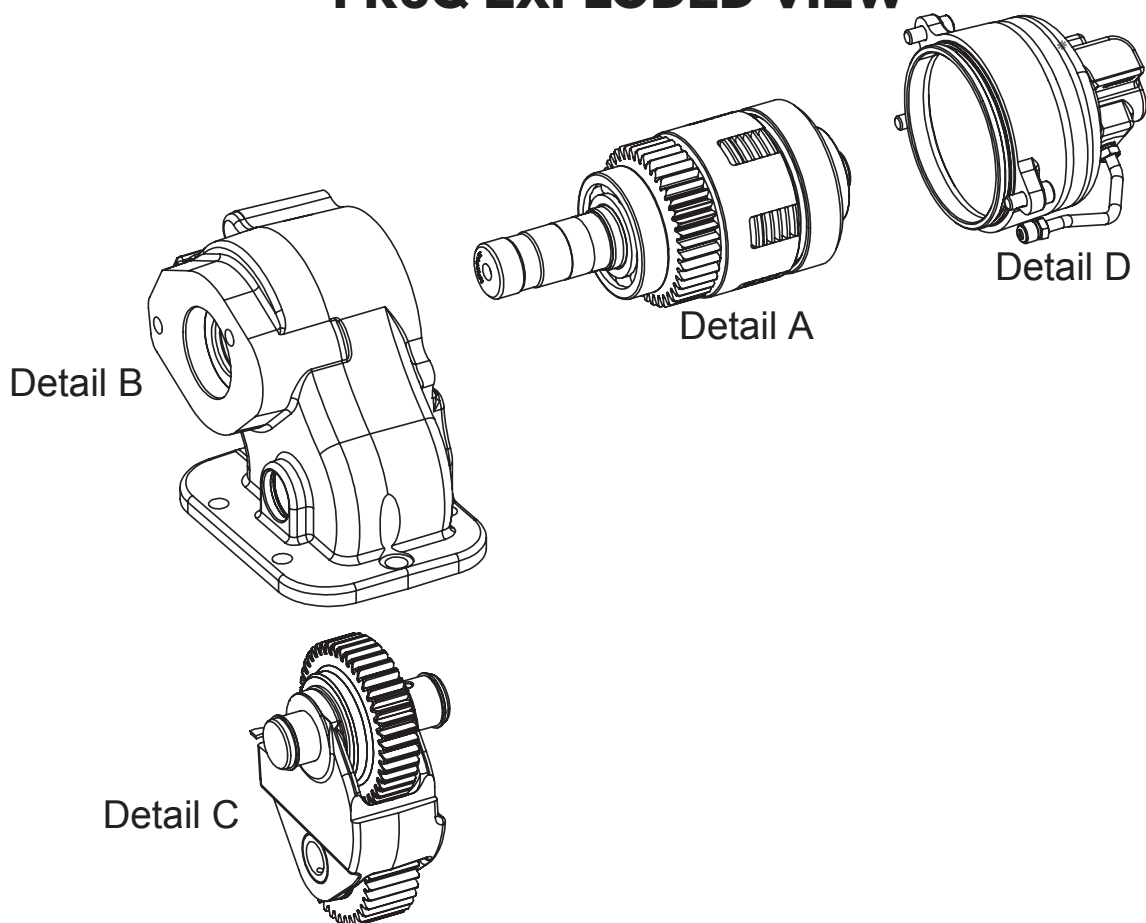
6 — **Muncie Start**® Stationary **OR** Mobile

7 — **Muncie Start**® Stationary **AND** Mobile (Only available on 6, F, & D Shift Options)

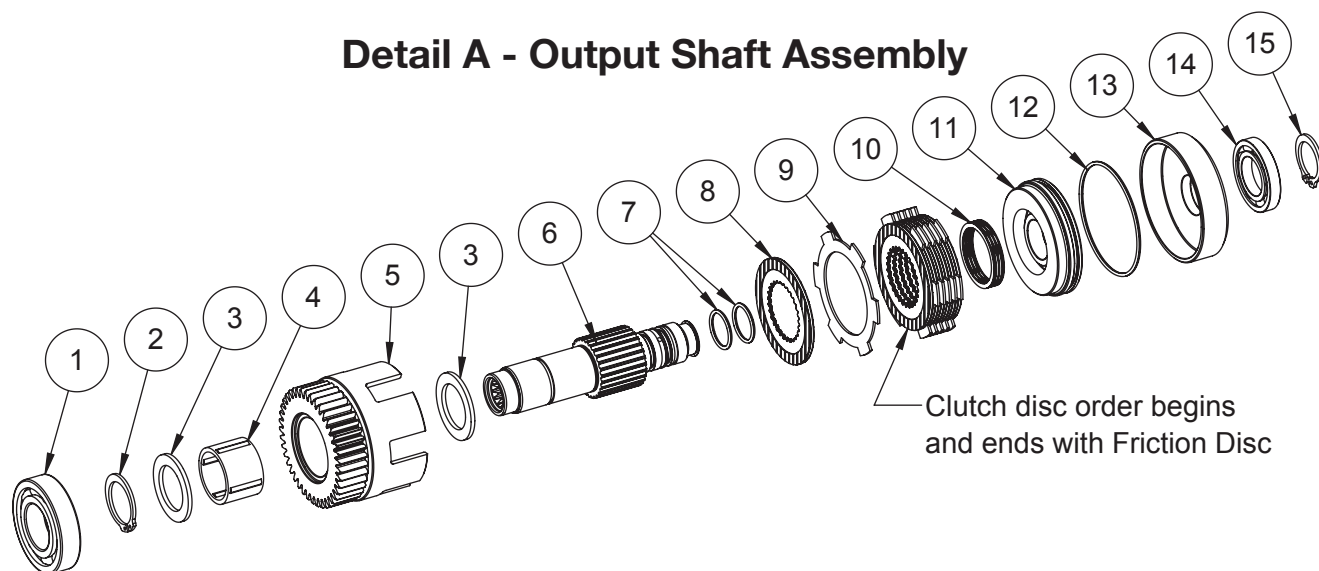
* Driveline output is not possible on 4×4 chassis.

Other FR6Q Literature	
IN16-06	Installation and Operator's Manual
MP16-07	Specifications Manual
IN17-14	Muncie Start Installation Instructions

FR6Q EXPLODED VIEW



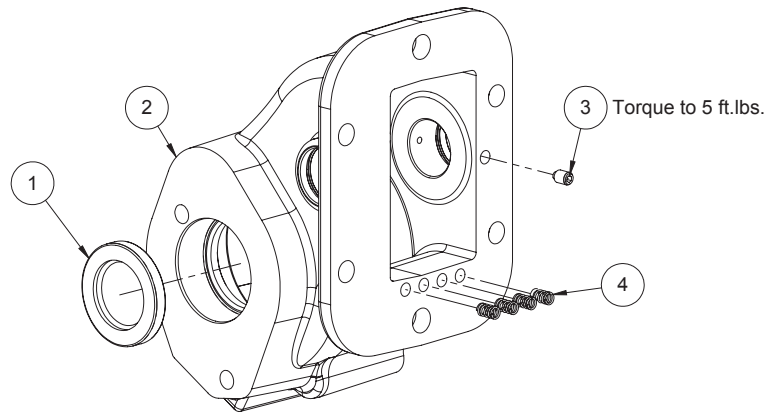
Detail A - Output Shaft Assembly



ITEM	QTY	PART NO.	DESCRIPTION
1	1	10T21017	Bearing
2	1	24T36470	Snap Ring: Output
3	2	21T62472	Thrust Washer
4	1	10T62471	Needle Bearing
5	1	02T62402	Output Gear
6	1	06T62415	Output Shaft - "B"
		06T62416	Output Shaft - "N", "T"
		06T62434	Output Shaft - "Q"
7	2	12T39023	O-Ring

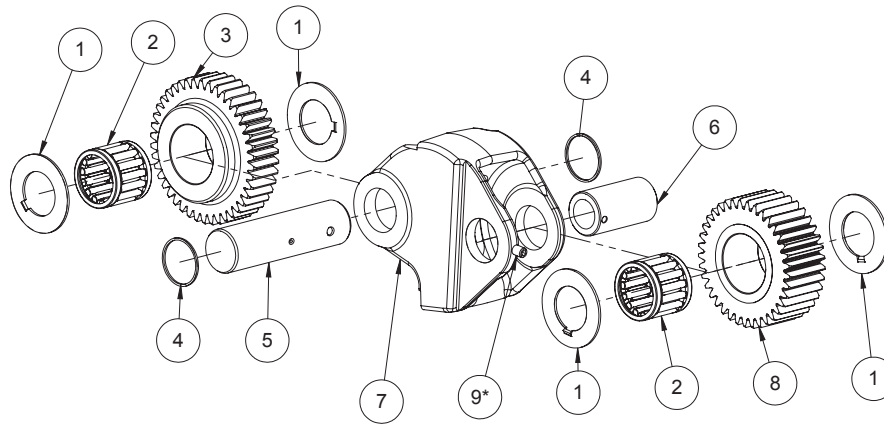
ITEM	QTY	PART NO.	DESCRIPTION
8	7	49T61803	Friction Disc
9	6	49T62876	Wave Spacer Disc
10	1	27T61827	Piston Return Spring
11	1	49T61822	Piston
12	1	12T36540	Piston O.D. O-Ring
13	1	49T39022	Piston Cup
14	1	10T39072	Bearing
15	1	24T39182	Snap Ring
N.S.	1	26T01627	Woodruff Key

Detail B - Housing Assembly



ITEM	QTY	PART NO.	DESCRIPTION
1	1	11T63830	Output Shaft Seal
2	1	01T63403 01T63404	Housing - "B", "N" Housing - "Q", "T"
3	1	19T63009	Set Screw
4	4	27T63431	Coil Spring

Detail C - Input Assembly



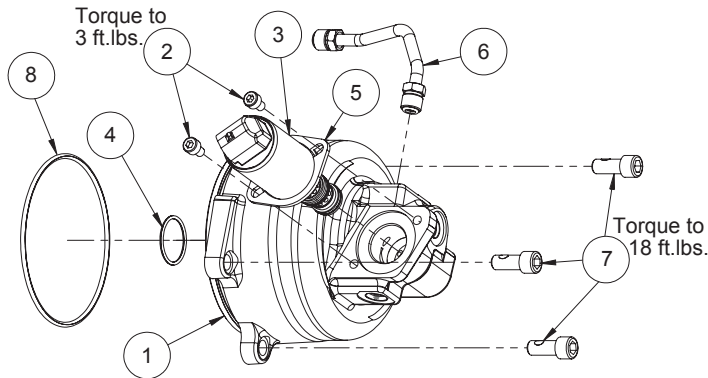
*Torque to 5 ft.lbs.

ITEM	QTY	PART NO.	DESCRIPTION
1	4	21T42017	Tabbed Thrust Washer
2	2	10T39145	Needle Bearing
3	1	04T62405	Idler Gear (42 Tooth)
4	2	12T36276	O-Ring
5	1	08T62417	Idler Gear Shaft

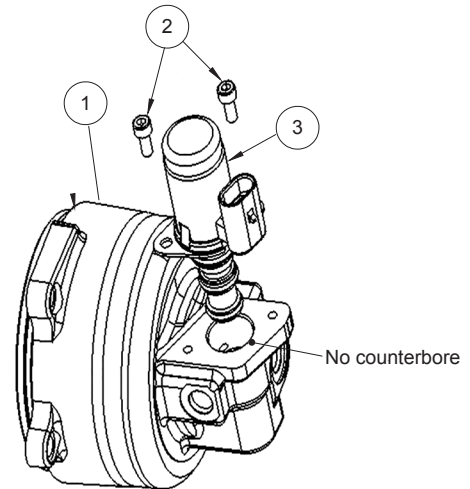
ITEM	QTY	PART NO.	DESCRIPTION
6	1	07T62045	Input Gear Shaft
7	1	49T62346	Rocker
8	1	03T62406	Input Gear (37 Tooth)
9	1	19T63010	Set Screw

Detail D - Rear Cover Assembly

PRIOR TO 2/23/2025



ON/AFTER 2/21/2025



ITEM	QTY	PART NO.	DESCRIPTION
1	1	15T62484	Rear Cover – Standard (Units built before 2/21/2025)
		15T62756	Rear Cover (M-Start)
		15T42720	Rear Cover – Standard (Units built on/after 2021/2025)
2	2	19T62950	Cap Screw for Solenoid
3	1	35T43600	Solenoid Valve (Units built before 2/21/2025)
		35T62496	Solenoid Valve (M-Start)
		35T40860	Solenoid Valve (Units built on/after 2/21/2025)

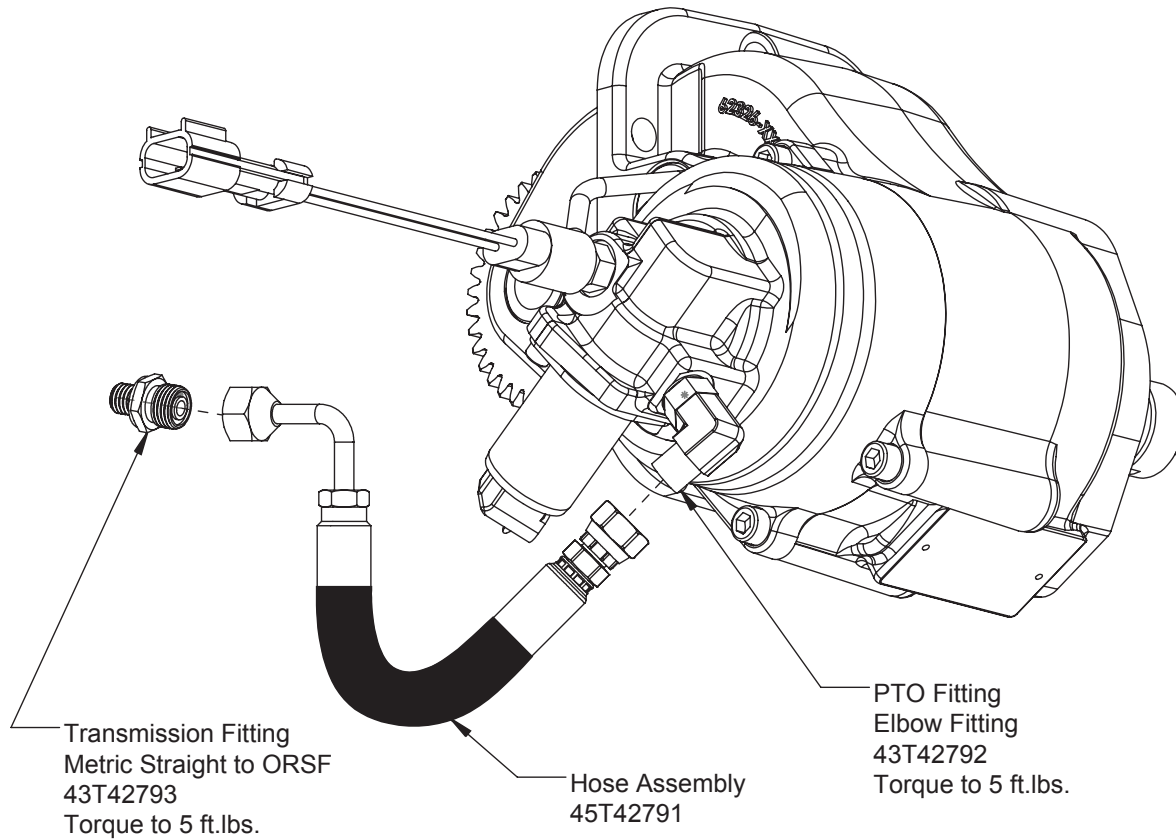
ITEM	QTY	PART NO.	DESCRIPTION
4	1	12T36280	O-Ring - Output Shaft
5	1	49T62436	Solenoid Clamp Ring (Not used on 35T40860)
6	1	43T62475	Lubrication Tube
7	3	19T35237	Cap Screw - Cover
8	1	12T36863	O-Ring - Cover

Gasket and Rebuild Kit Contents

P/N	DESCRIPTION	Gasket Kit (FR6Q-GSK)	Rebuild Kit (FR6Q-RBK)
		Qty	Qty
10T21017	Bearing	-	1
24T36470	Snap Ring: Output	-	1
21T62472	Thrust Washer	-	2
10T62471	Needle Bearing	-	1
12T39023	O-Ring	2	2
27T61827	Piston Return Spring	-	1
49T61803	Friction Disc	-	7
49T62876	Wave Spacer Disc	-	6
12T36540	Piston O.D. O-Ring	1	1
10T39072	Bearing	-	1
24T39182	Snap Ring	-	1
11T63830	Output Shaft Seal	1	1
21T42017	Tabbed Thrust Washer	-	4
10T39145	Needle Bearing	-	2
12T36276	O-Ring	2	2
27T63431	Rocker Spring	-	4
12T36280	O-Ring - Output Shaft	1	1
12T36863	O-Ring - Cover	1	1
13T41973	PTO Gasket	1	1

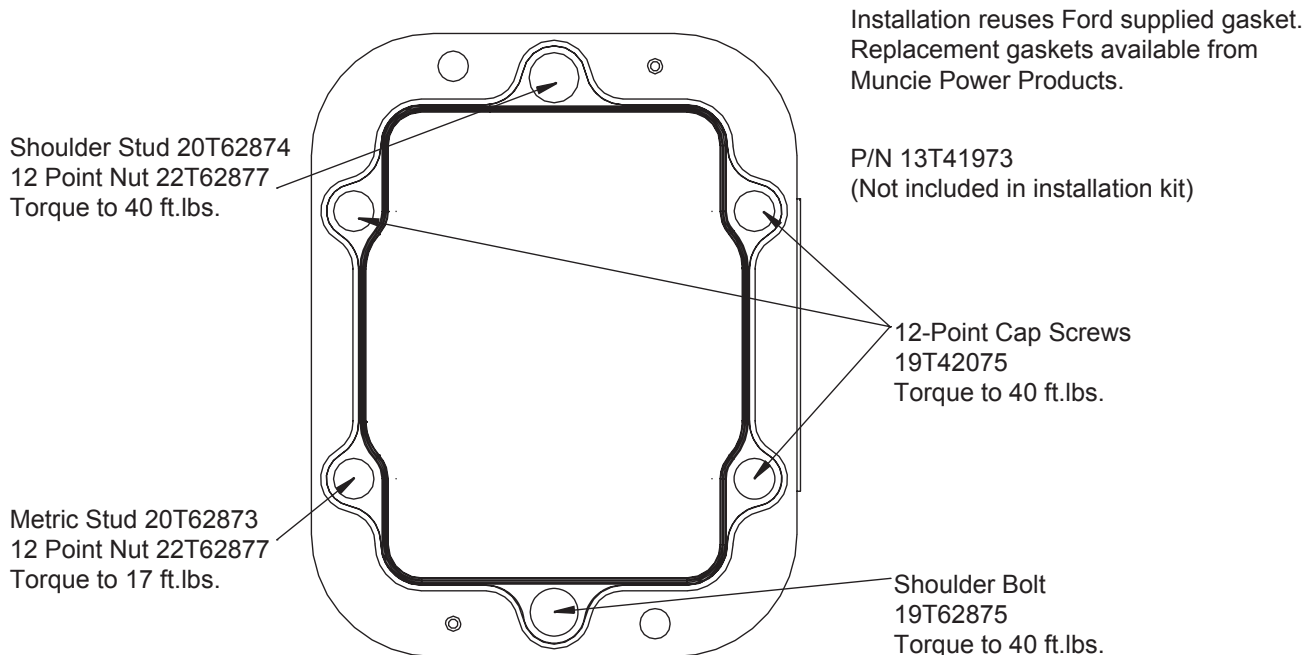
FR6Q Installation Kits

Activation Plumbing Components Included in All Installation Kits

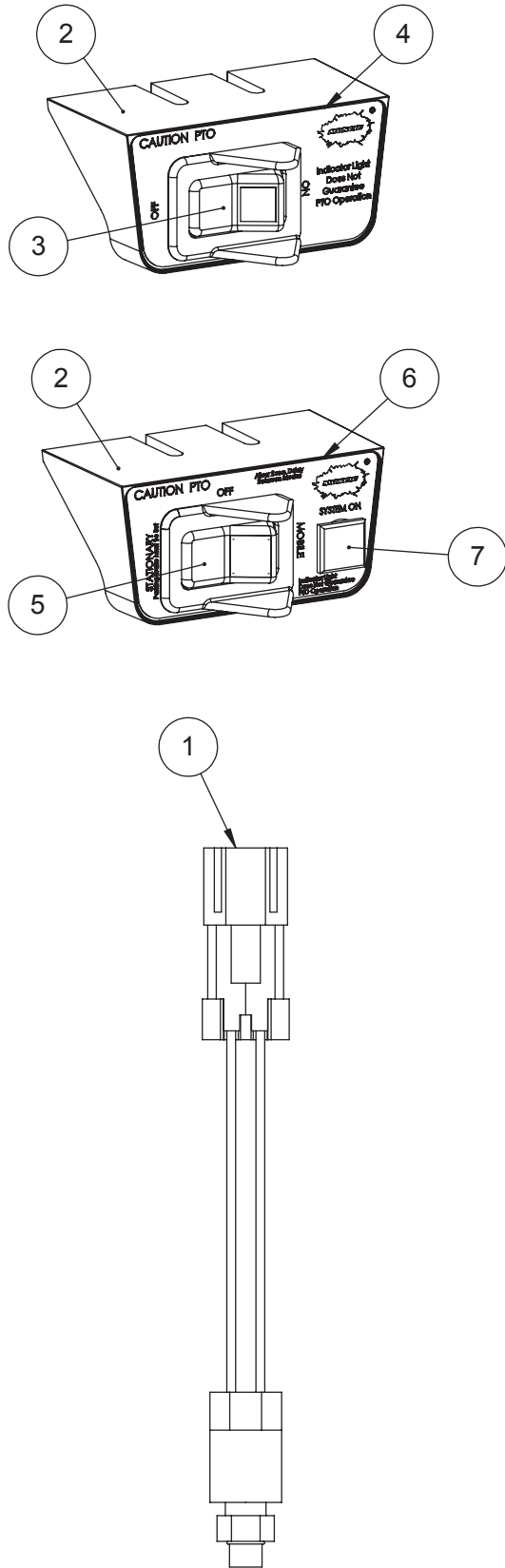


FR6Q Stud Kit Details

20TK6385



FR6Q Installation Kit Parts Breakdown

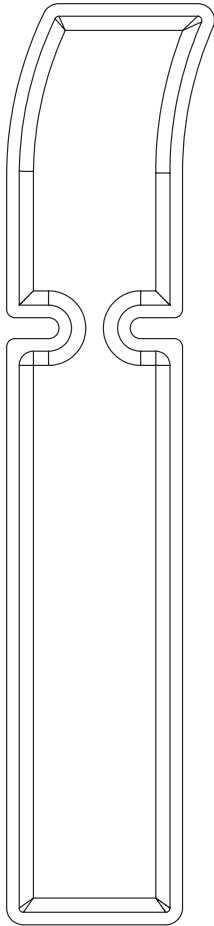


	ITEM	QTY	PART NO.	DESCRIPTION
Common (ALL Kits)	1	1	30T60223	Pressure Switch
	2	1	36T42362	Dash Bracket
	N.S.	1	36MK1007	Dash Bracket Bolt Kit
	N.S.	1	37T35674	Grommet
	N.S.	6	28T35442	Cable Ties
Shift Specific Components	6X - Shift Option (48TK6200)			
	3	1	30T35687	Rocker Switch
	4	1	36T42380	Face Place
	N.S.	1	34T43730	Wire Harness (See IN16-06 for details)
	6B - Shift Option (48TK6201)			
	5	1	30T41975	Rocker Switch
	6	1	36T42383	Face Place
	7	1	32MSR12V	Light
	N.S.	1	34T43740	Wire Harness (See IN16-06 for details)
	FX - Shift Option (48TK6205)			
	3	1	30T35687	Rocker Switch
	4	1	36T42380	Face Place
	N.S.	1	34T43735	Wire Harness (See IN16-06 for details)
	FB - Shift Option (48TK6206)			
	5	1	30T41975	Rocker Switch
	6	1	35T42383	Face Place
	7	1	32MSR12V	Light
	N.S.	1	34T43745	Wire Harness (See IN16-06 for details)
	DX - Shift Option (48TK6311)			
	3	1	30T35687	Rocker Switch
	4	1	36T42380	Face Place
	N.S.	1	34T41671	Wire Harness (See IN16-06 for details)
	DB - Shift Option (48TK6312)			
	5	1	30T41975	Rocker Switch
	6	1	36T42383	Face Place
	7	1	32MSR12V	Light
	N.S.	1	34T41940	Wire Harness (See IN16-06 for details)
	GX - Shift Option (48TK6313)			
	3	1	30T35687	Rocker Switch
	4	1	36T42380	Face Place
	N.S.	1	34T43359	Wire Harness (See IN16-06 for details)

Heat Shield/Pressure Switch Relocation Parts List

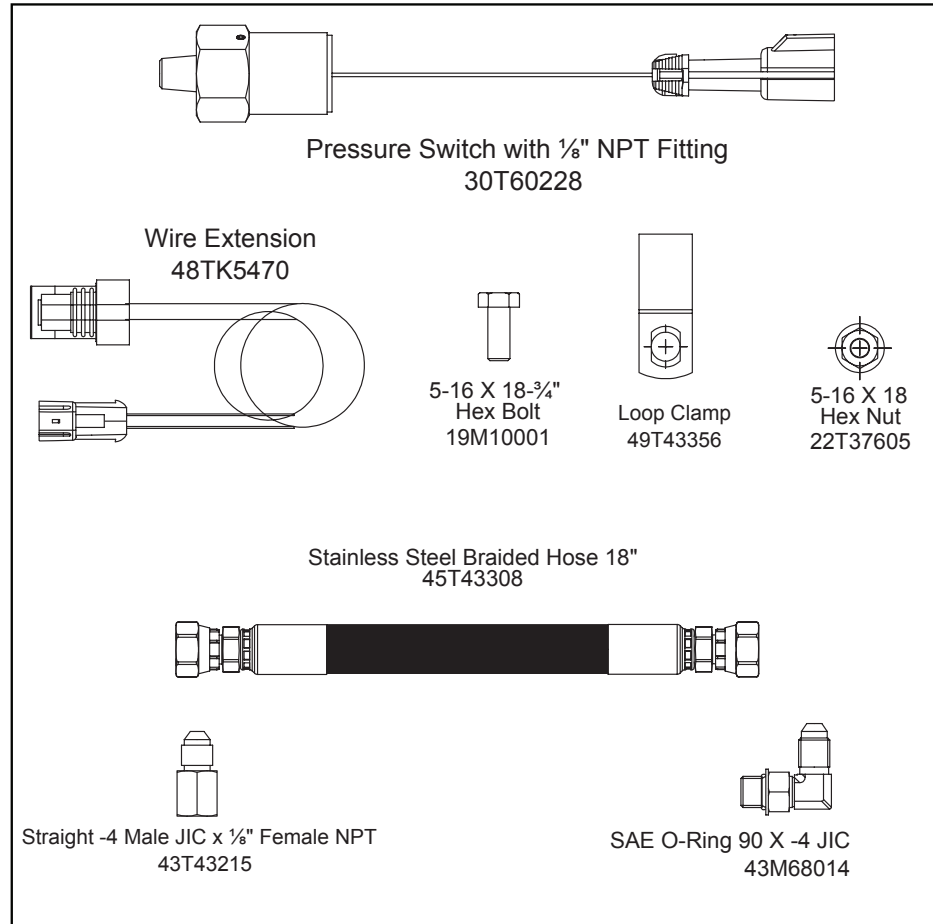
(Required for FX, FB, and GX Shift Options ONLY)

Pressure Switch Relocation Kit 43TK5527



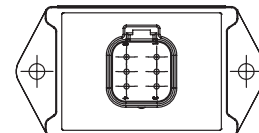
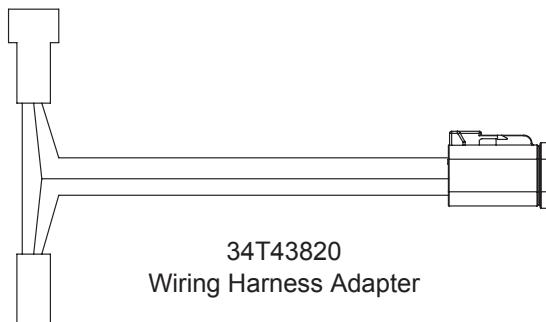
Heat Shield
49T43320

Required: Heat Shield
Fasteners 48TK5557



Muncie Start Kit Parts List

(6 and 7 Special Feature ONLY; Connects to Included Wire Harness)



38T63052
Module



A Member of the Interpump Group

SP16-04 (Rev. 05-26)

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