

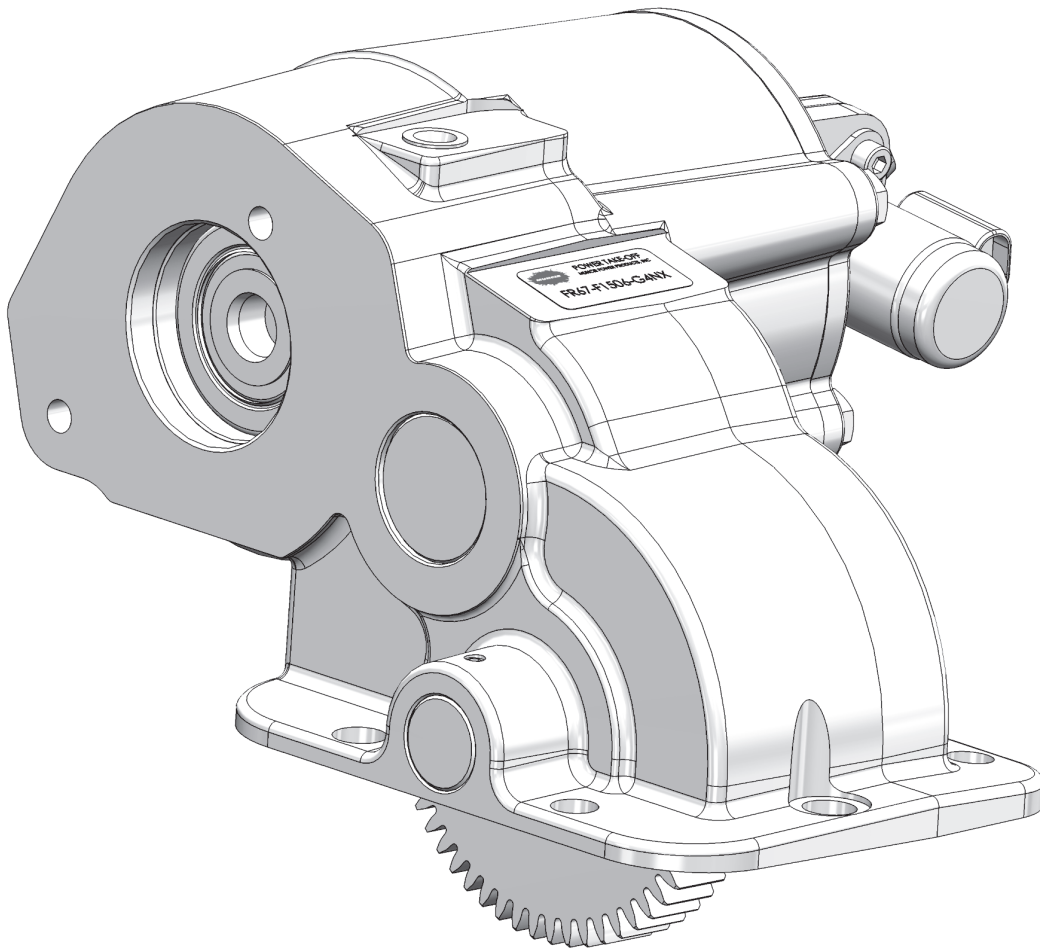


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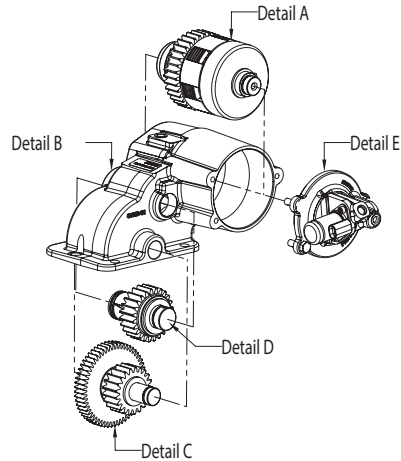
FR63/64/67 SERIES

POWER TAKE OFF

PARTS LIST AND SERVICE MANUAL

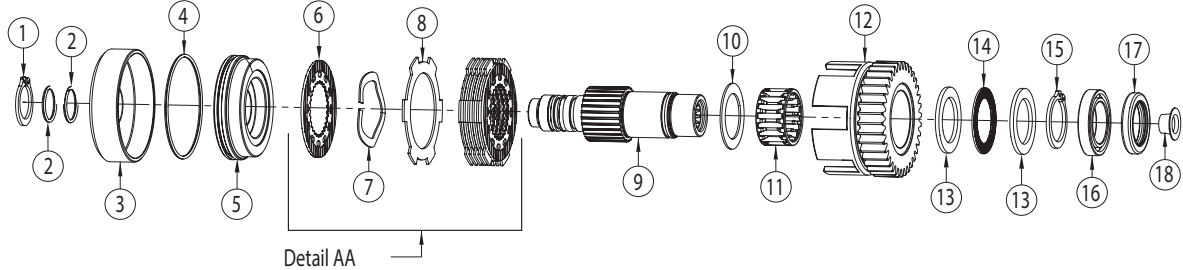


FR63/64/67 PTO EXPLODED VIEWS



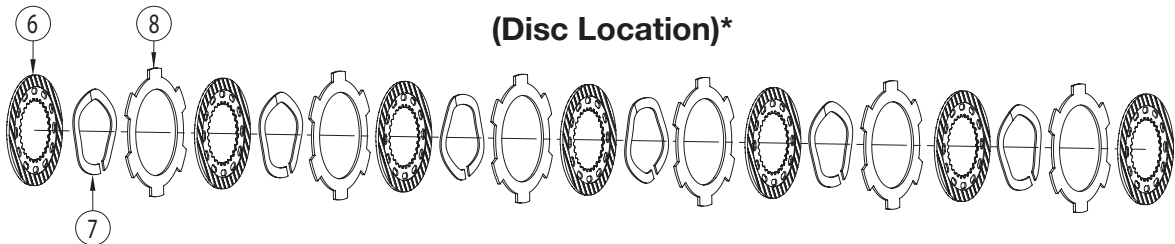
DETAIL A – OUTPUT SHAFT

FR64/67 “N” OUTPUT



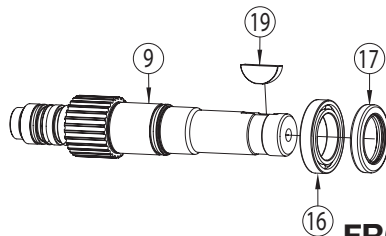
DETAIL AA – CLUTCH PACK ASSEMBLY

(Disc Location)*

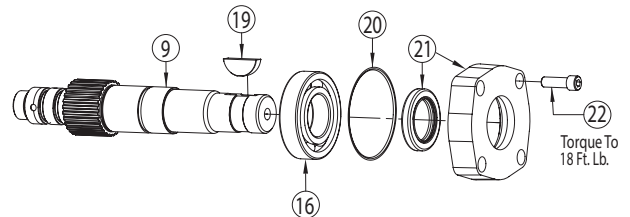


*The clutch pack assembly contains a spring and a spacer disc in between each friction disc. The assembly should begin and end with a friction disc.

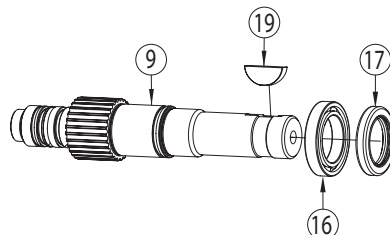
FR64/ 6 7 “B” OUTPUT ASSEMBLY



FR63 “B” OUTPUT ASSEMBLY



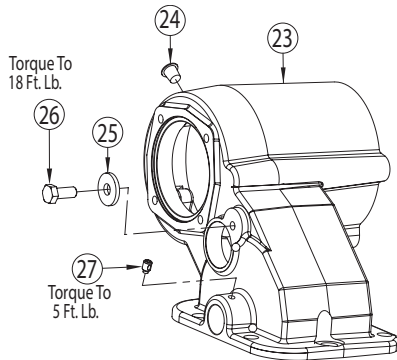
FR63 “Q”, “R” & “T” OUTPUT ASSEMBLY



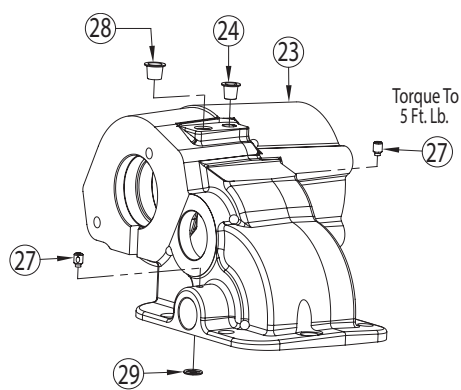
FR63/64/67 PTO EXPLODED VIEWS

DETAIL B – PTO HOUSING

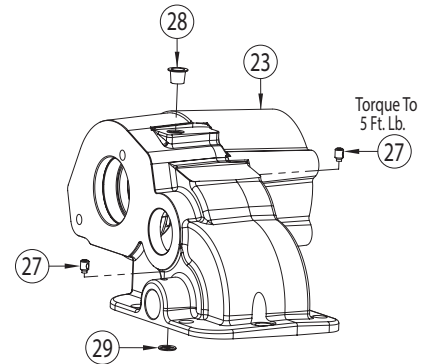
FR63 HOUSING



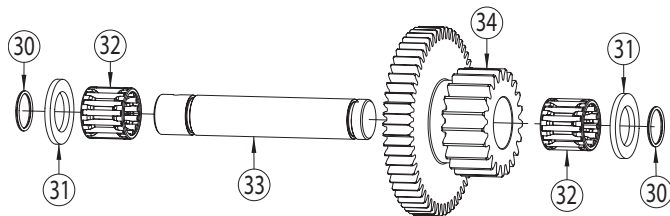
FR64 HOUSING



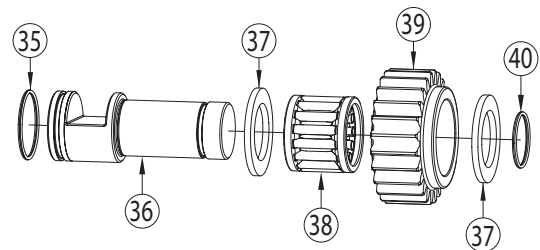
FR67 HOUSING



DETAIL C – INPUT SHAFT

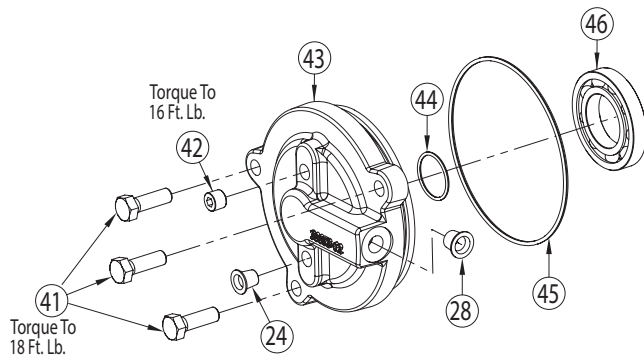


DETAIL D – REVERSE SHAFT

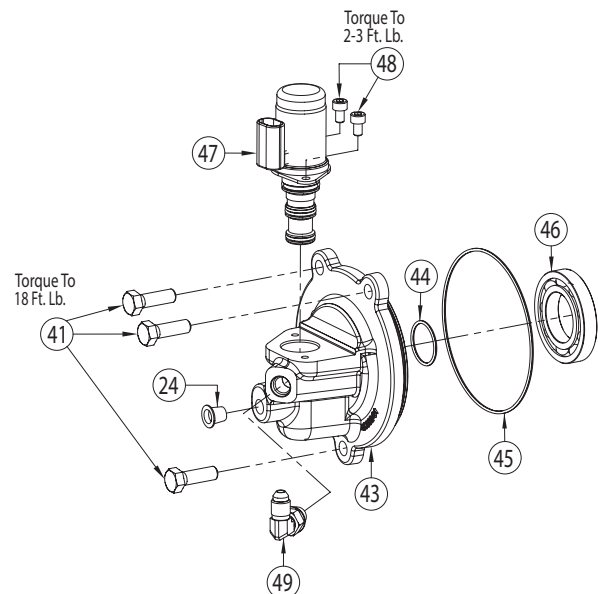


DETAIL E – BEARING

FR63/64 BEARING COVER



FR67 BEARING COVER



PARTS LIST & DESCRIPTION

ITEM	PART NO.	QTY	DESCRIPTION
DETAIL A			
1	24T39182	1	Snap Ring
2	12T39023	2	O-Ring
3	49T39022	1	Piston Cup
4	12T36540	1	O-Ring
5	49T38881	1	Piston
6	49T36259	7	Friction Disc
7	27T36286	6	Spring
8	49T36258	6	Spacer Disc
9	See Table A	1	Output Shaft
10	27T37085	1	Washer
11	10T37008	1	Needle Bearing
12	02T39074	2	Output Gear
13	21T29017	2	Washer
14	10T37009	1	Bearing
15	24T35480	1	Snap ring
16	10T21017	1	Bearing (FR63)
	10T39147	1	Bearing (FR64/67)
17	11T37790	1	Shaft Seal (FR64/67)
18	25T37387	1	Cap Plug ("Q", "N" & "T")
19	26T01627	1	Key
20	12T36751	1	O-Ring
21	11T37790	1	Shaft Seal (FR64/67)
22	19T39257	1	Bolt
23	01T39269	1	FR63 Housing
	01T40710	1	FR64/67 Housing
24	25T34029	2	Cap Plug
25	21T38862	1	Washer (FR63)
26	19M10001	1	Bolt (FR63)
27	19T36249	1	FR63 Set Screw
	19T34789	1	FR64/67 Set Screw
28	25T37702	2	Cap Plug
29	12T36881	1	O-Ring (FR64/67)
DETAIL C			
30	12T36879	2	O-Ring
31	21T38956	2	Washer
32	10T34006	2	Bearing
33	07T38865	1	Input Shaft
34	03T39073	1	Input Gear

ITEM	PART NO.	QTY	DESCRIPTION
DETAIL D			
35	12T36456	1	O-Ring
36	08T39258	1	Reverse Idler Shaft (FR63)
	08T39075		Reverse Idler Shaft (FR64/67)
37	21T39144	1	Washer
38	10T39145	1	Needle Bearing
39	04T39180	1	Reverse Idler Gear
40	12T35577	1	O-Ring
DETAIL E			
41	19T32740	3	Hex Head Cap Screw
42	25T21684	1	Plug
43	15T39263	1	Bearing Cover (FR63)
	15T39070		Bearing Cover (FR64)
	15T41333		Bearing Cover (FR67)
44	12T36280	1	O-Ring
45	12T36279	1	O-Ring (FR63)
	12T37278		O-Ring (FR64)
	12T42077		O-Ring (FR67)
46	10T39072	1	Bearing
47	35T40860	1	Solenoid Valve 12V (FR67)
48	19T40859	2	Socket Capscrew (FR67)
49	43M68014	1	JIC 90 Degree Fitting (FR67)
N.S.	43TK5170	1	FR63 "D"/"G" Installation Kit (12V) Includes: Shift Kit
N.S.	43TK4521	1	FR63/64 "H/Q" - FR63 Only Installation Kit (12V) Includes Shift Kit
N.S.	43TK4825	1	FR63/64 "I" Installation Kit (12V) Includes Shift Kit
N.S.	43TK4524	1	FR63/64 "Z" Installation Kit (12V) Includes Shift Kit
N.S.	43TK5171	1	FR64 "D/G" Installation Kit (12V) Includes Shift Kit
N.S.	43TK4593	1	FR64 "Q" Installation Kit (12V) Includes Shift Kit
N.S.	43TK5181	1	FR67 "D" Installation Kit (12V) Includes Shift Kit Instruction Packet and Stud Kit
N.S.	43TK5183	1	FR67 "G" Installation Kit (12V) Includes Shift Kit Instruction Packet and Stud Kit

TABLES A, B, AND MODEL NUMBER CONSTRUCTION

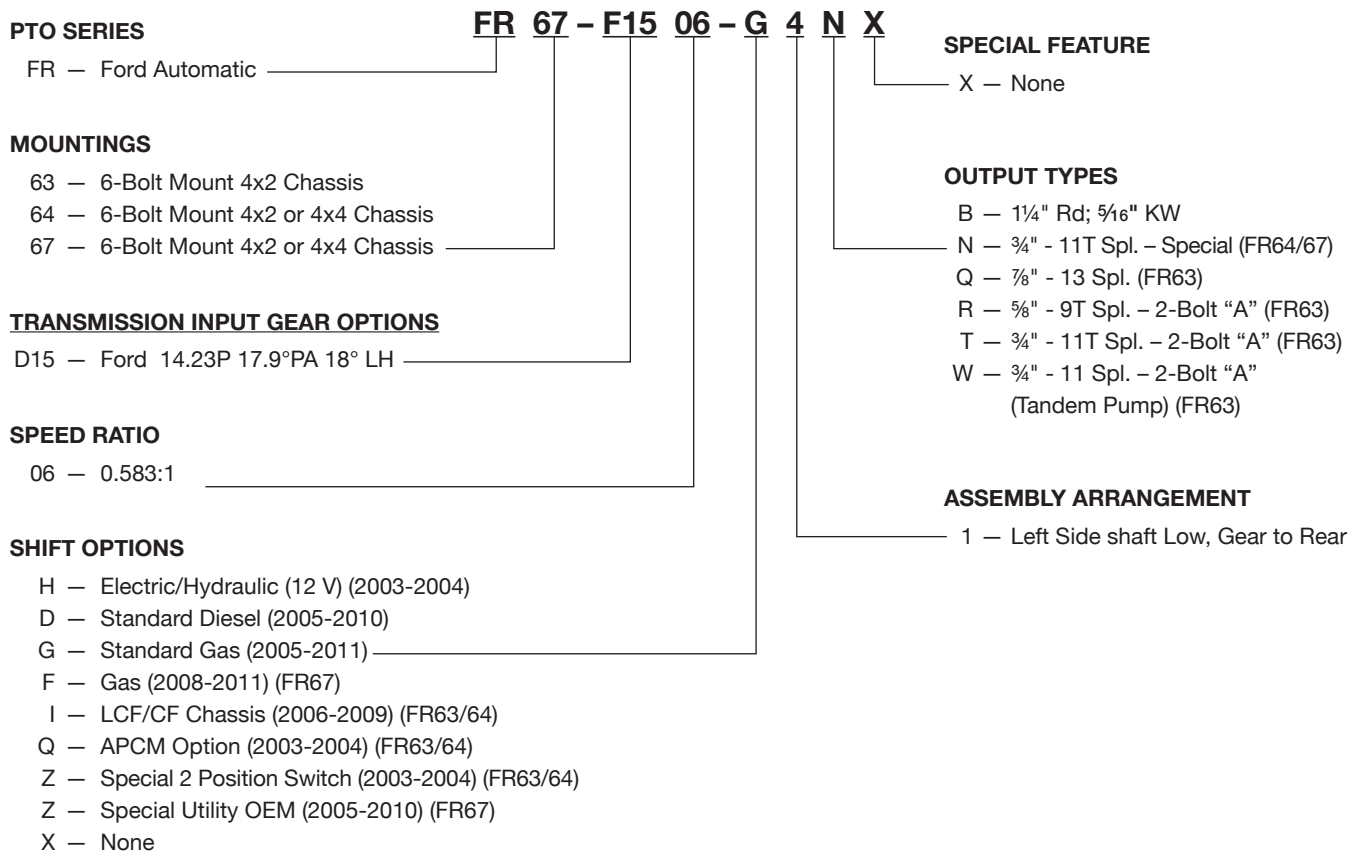
Table A – Output Shaft (Item 9)

PART NO.	DESCRIPTION
06T39388	Output Shaft “B” 1.3" Rd. (FR63)
06T39197	Output Shaft “B” 1.3" Rd. (FR64)
06T41494	Output Shaft “B” 1.3" Rd. (FR67)
06T39184	Output Shaft “N” ¾" – 11T SPL (FR64)

Table B – Output Cover/Flange (Item 21)

PART NO.	DESCRIPTION	COMPONENTS
14TA5160	“B” Flange/Seal Assembly (FR63)	Includes: 14T37344 Hydraulic Adapter & 11T37790 Output Shaft Seal
14TA3997	“Q”, “R”, & “T” Flange/Seal Assembly (FR63)	Includes: 14T39141 Hydraulic Flange & 11T37790 Output Shaft Seal

MODEL NUMBER CONSTRUCTION

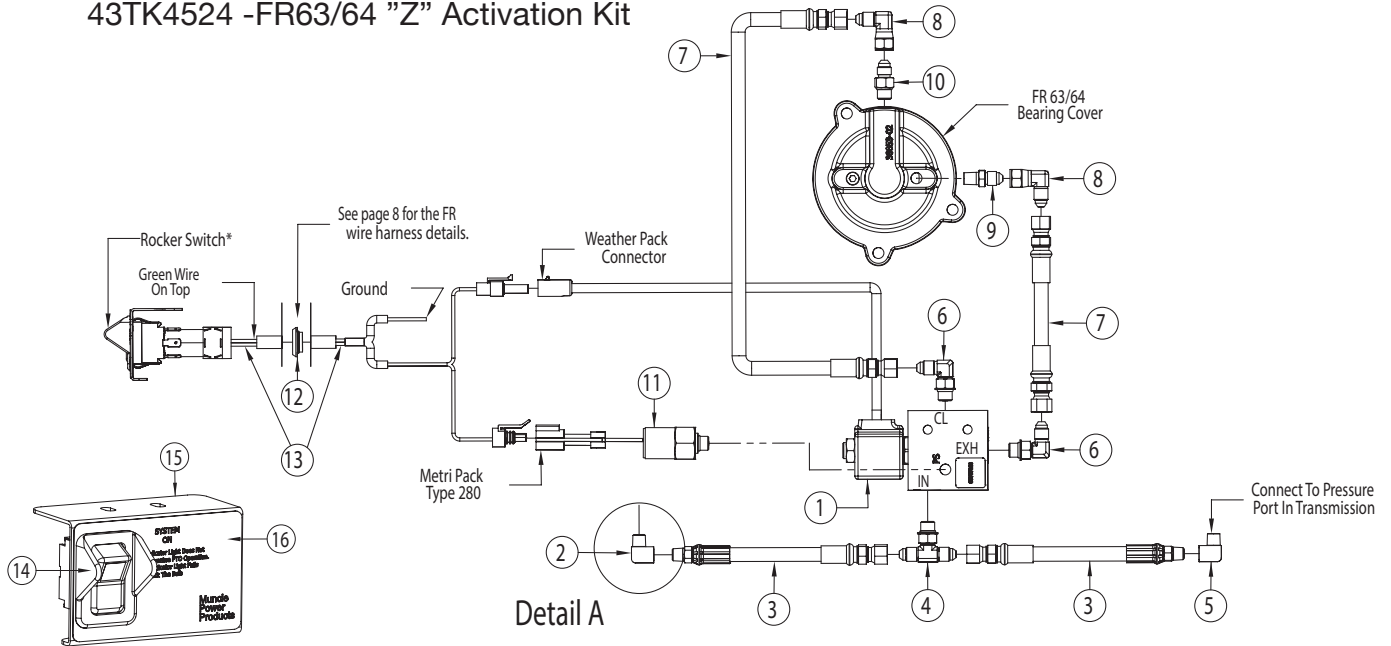


ACTIVATION KITS

FR 63/64

43TK5170 - FR63 "D" & "G" Activation Kit
 43TK5171 - FR64 "D" & "G" Activation Kit
 43TK4521 - FR63/64 "H" Activation Kit
 43TK4524 -FR63/64 "Z" Activation Kit

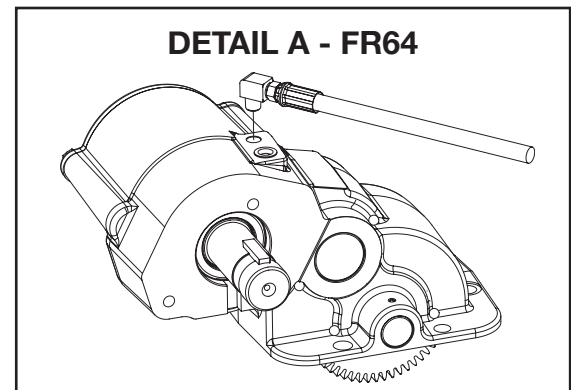
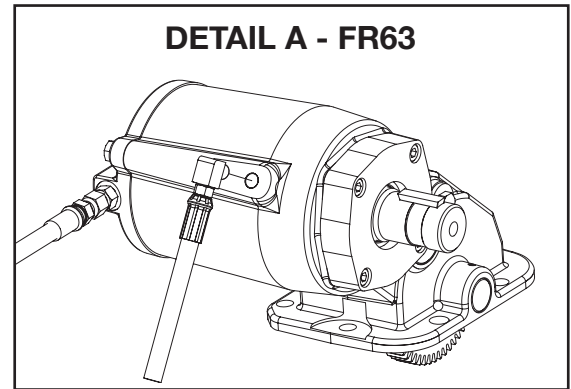
43TK4521 - FR63 "Q" Activation Kit
 43TK4593 - FR64 "Q" Activation Kit
 43TK4825 - FR63/64 "I" Activation Kit



Dash Bracket Assembly
 30T36270
 (Not used in "Q" activation option)

NOTE: * Green light in the rocker switch is to turn "ON" when the PTO is engaged and turn "OFF" when the PTO is disengaged.

ITEM	QTY	PART NO.	DESCRIPTION
1	1	35T37928	Valve 12 VDC
2	1	43T37385	Orifice Elbow (Silver Color)
3	2	45M4R528	28" Hose Assembly (NPT-JIC)
4	1	43T36231	Tee Fitting
5	1	44MB0222	NPT Elbow
6	2	43M68014	90° JIC Fitting
7	2	45T36274	28" Hose Assembly (JIC-JIC)
8	2	43T36445	JIC Elbow
9	1	43T37503	JIC Adapter
10	1	43T36431	ODT/JIC Adapter
11	1	30T60223	Pressure Switch
12	1	37T35674	Rubber Grommet
13	1	34T39852	"D" Shift Option Wiring Harness
		34T39851	"G" Shift Option Wiring Harness
		34T39032	"H" Shift Option Wiring Harness***
		34T40128	"I" Shift Option Wiring Harness
		34T39599	"Q" Shift Option Wiring Harness
		34T39185	"Z" Shift Option Wiring Harness
14	1	19T36623	12 V Rocker Switch ("D", "G" & "Z" Options)
		22T35140	12 V Rocker Switch ("H" Option)
		21T37991	12 V Rocker Switch ("I" Option)
15	1	36MA1005	Switch Bracket
16	1	36T36271	Face Plate
N.S.	2	19T36623	Cap Screw (Solenoid Mtng.)
N.S.	2	21T37991	Lock Washer (Solenoid Mtng.)
N.S.	2	22T35140	Nut (Solenoid Mtng.)
N.S.	6	28T35542	Cable Ties
N.S.	1	36MK1007	Dash Bracket Bolt Kit



NOTE: **Relay included with harness
 (Part No. 37T37621).

ACTIVATION KITS

FR 67

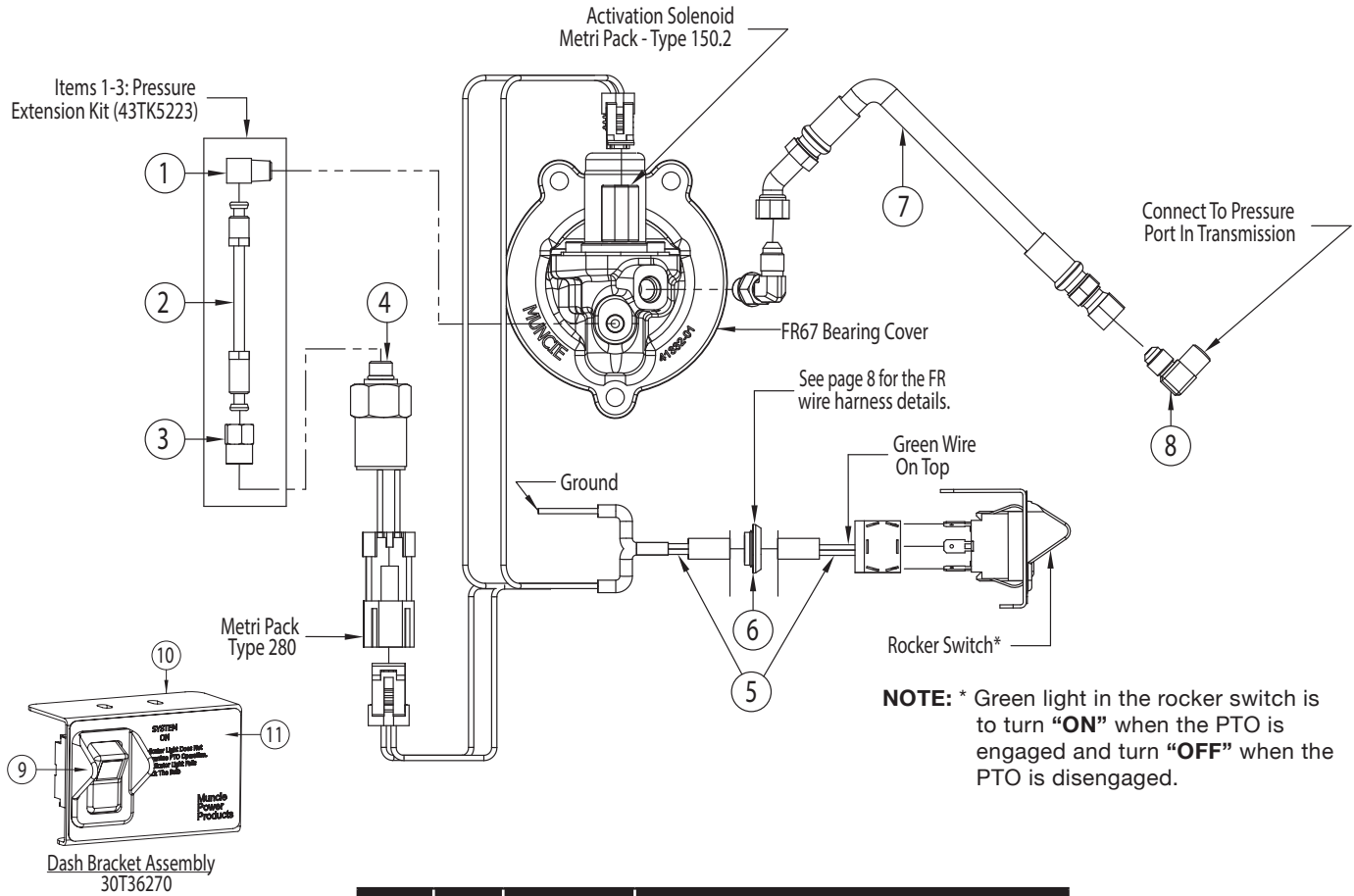
43TK5181 – FR67 “D” Installation Kit

43TK5262 – FR67 “F” Installation Kit

43TK5187 – FR67 “Z” Installation Kit

43TK5183 – FR67 “G” Installation Kit

43TK5206 – FR67 “H” Installation Kit



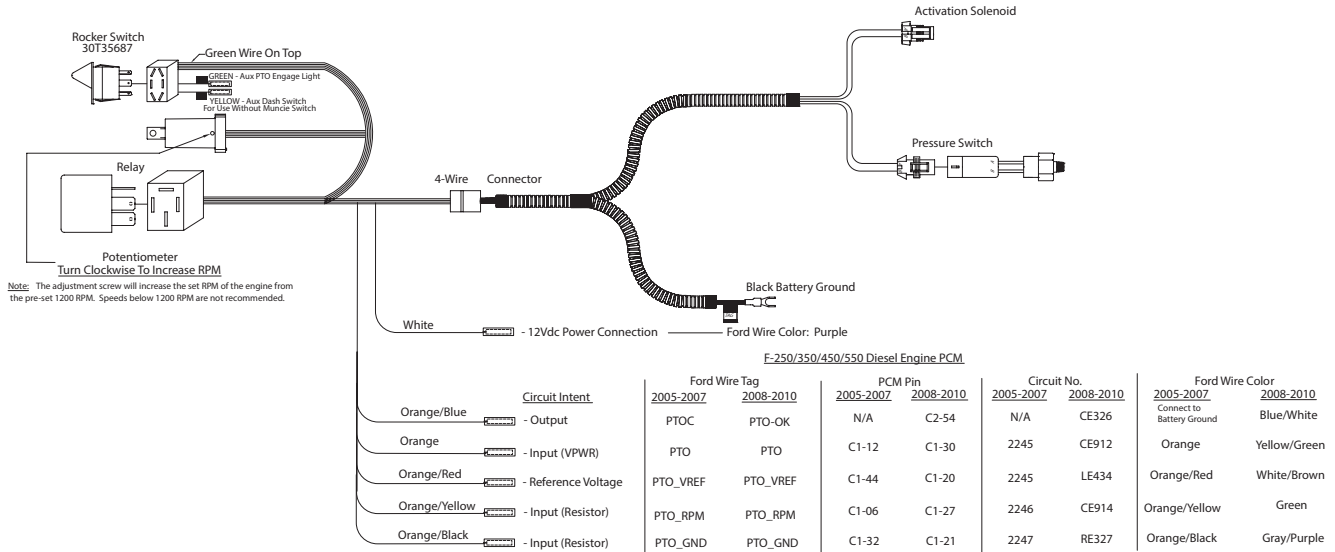
ITEM	QTY	PART NO.	DESCRIPTION
1	1	43T37383	3/16" Tube Elbow
2	1	43T37384	Pressure Tube
3	1	43T37382	3/16" Tube Connection
4	1	30T60223	Pressure Switch
		34T41022	“D” Shift Option Wiring Harness
		34T41136	“G” Shift Option Wiring Harness
5	1	34T41993	“F” Shift Option Wiring Harness
		34T41129	“H” Shift Option Wiring Harness
		34T41130	“Z” Shift Option Wiring Harness
6	1	37T35674	Grommet
7	1	45T41682	28" Hose Assembly (NPT-15° JIC)
8	1	43T41534	NPT-JIC Elbow
9	1	30T37620	12 V Rocker Switch “D”, “G”, “F”, & “Z” Option
		30T37620	12 V Rocker Switch “H” Option
10	1	36MA1005	Switch Bracket
11	1	36T36271	Face Plate
N.S.	1	36MK1007	Switch Bracket Bolt Kit
N.S.	1	20TK5188	FR67 Stud Kit
N.S.	6	28T35442	Cable Ties
N.S.	1	52TK4522	Label Packet

FR SERIES WIRING HARNESS OPTIONS

FR63/64/67 DIESEL “D” WIRING HARNESS: FORD 2005-2010 — DIESEL ENGINE

FR63/64 “D” HARNESS — 34T39852

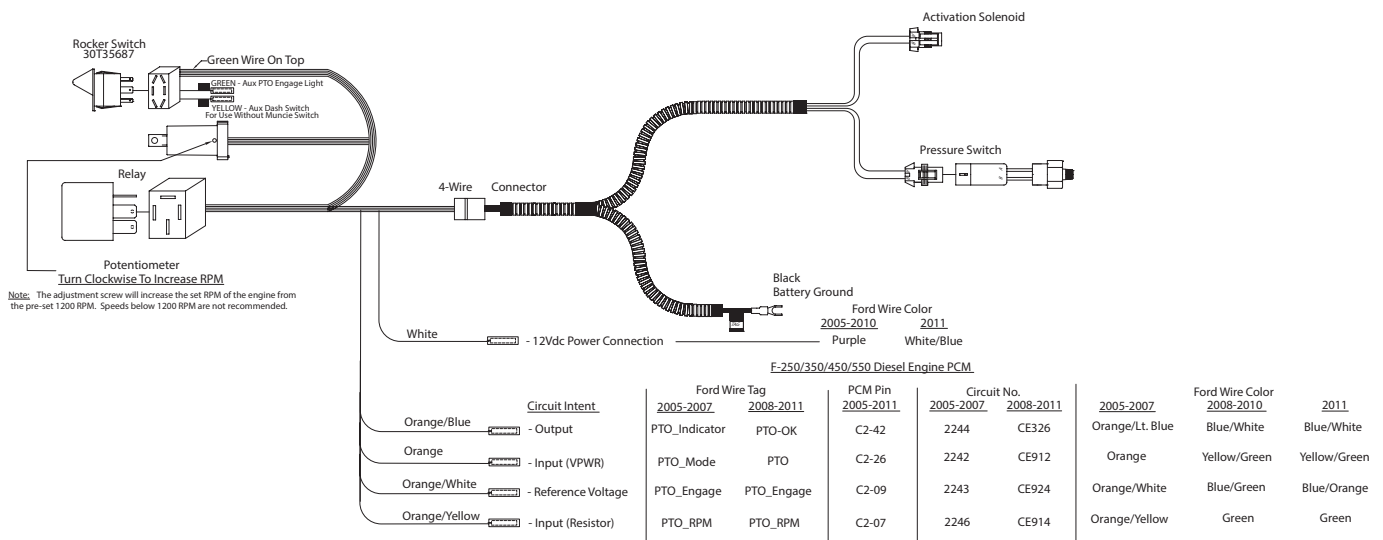
FR67 “D” HARNESS — 34T41022



FR63/64/67 GAS “G” WIRING HARNESS: FORD 2005 & LATER — GAS ENGINE

FR63/64 “G” HARNESS — 34T39851

FR67 “G” HARNESS — 34T41136



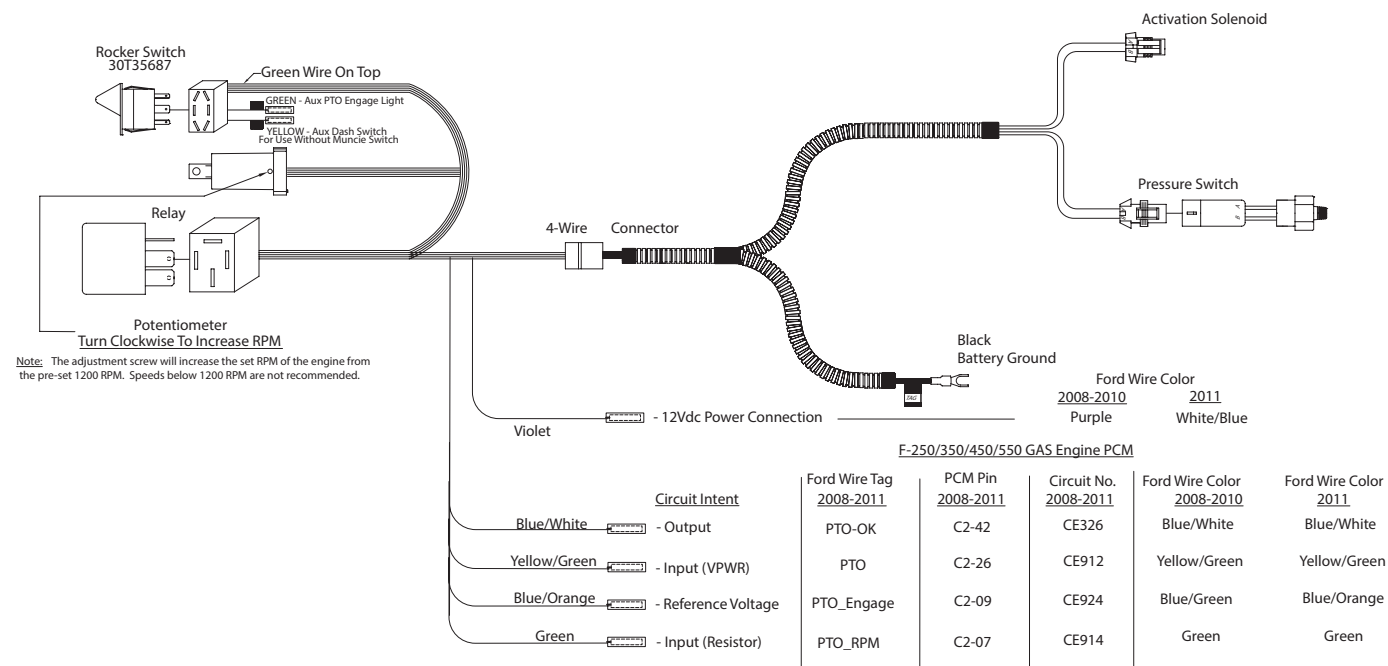
Note: If you do NOT see a Blue/Orange wire in the SEIC bundle, follow the next step very carefully. (For the 2011 Ford Gas truck ONLY).

The first production of the Ford 2011 trucks will contain (2) Blue/Gray wires located in the SEIC bundle. One of these wires is for the PTO-Engage; the other is a “PARK” indicator. If your truck contains a Blue/Gray wire for the PTO_Engage wire tag (instead of a Blue/Orange wire), you will need to do a continuity check to ground. Turn the ignition key to “ON” (but do not start the engine), then shift the vehicle out of Park. The wire that changes continuity is for the “Park” indicator and the one that does not change is the wire for the PTO_Engage wire tag. Connect the Muncie Orange/White wire to this Ford Blue/Gray wire, circuit CE924.

FR SERIES WIRING HARNESS OPTIONS

FR67 GAS “F” WIRING HARNESS: FORD 2008-2011

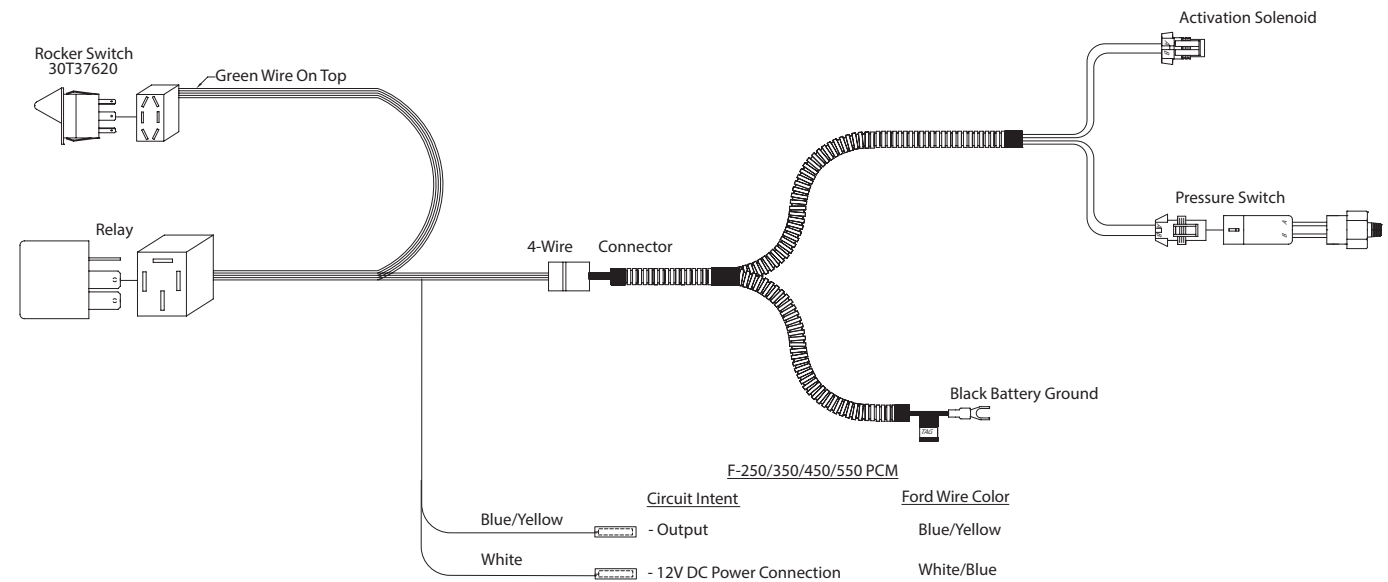
FR67 “F” HARNESS — 34T41993



FR63/64/67 ELECTRIC/HYDRAULIC “H” WIRING HARNESS: FORD 2003-2004

FR63/64 “H” HARNESS (2003-2004) — 34T39032

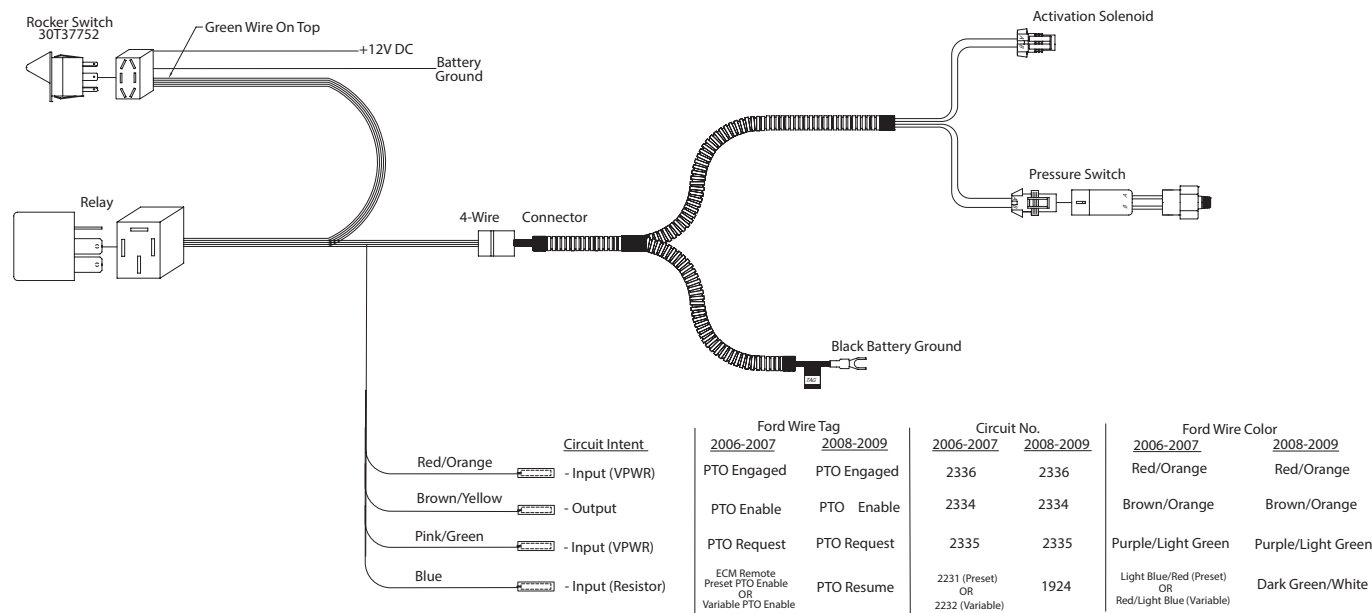
FR67 “H” HARNESS - (2003-2004) — 34T41129



FR SERIES WIRING HARNESS OPTIONS

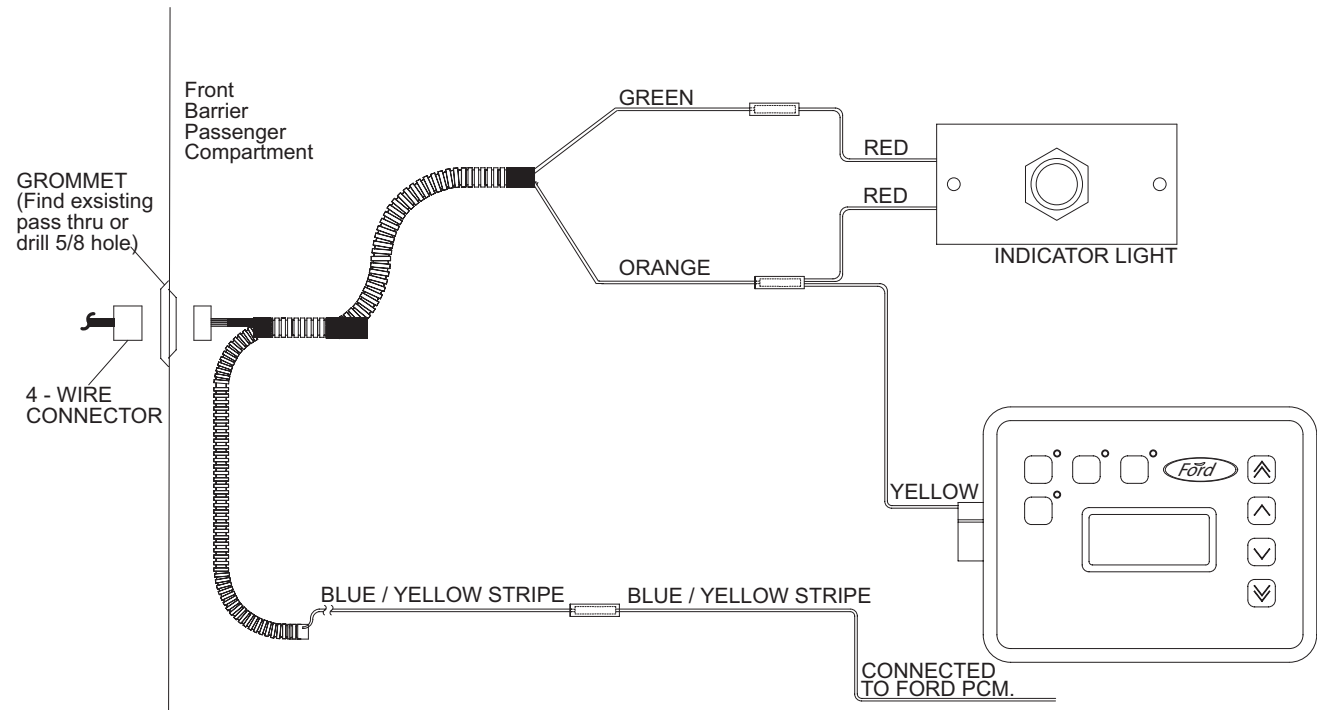
FR63/64 LCF/CF CHASSIS “I” WIRING HARNESS: FORD AUTOMATIC TRANSMISSION 2006-2009

FR63/64 “I” (2006-2009) HARNESS — 34T40128



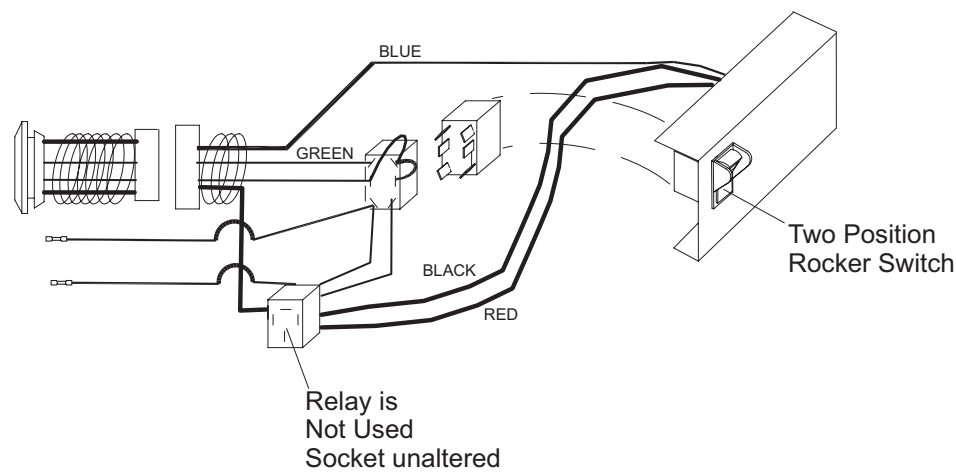
FR63/64 APCM OPTION “Q” WIRING HARNESS: FORD 2003-2004

FR63/64 APCM OPTION “Q” WIRING HARNESS — FORD 2003-2004



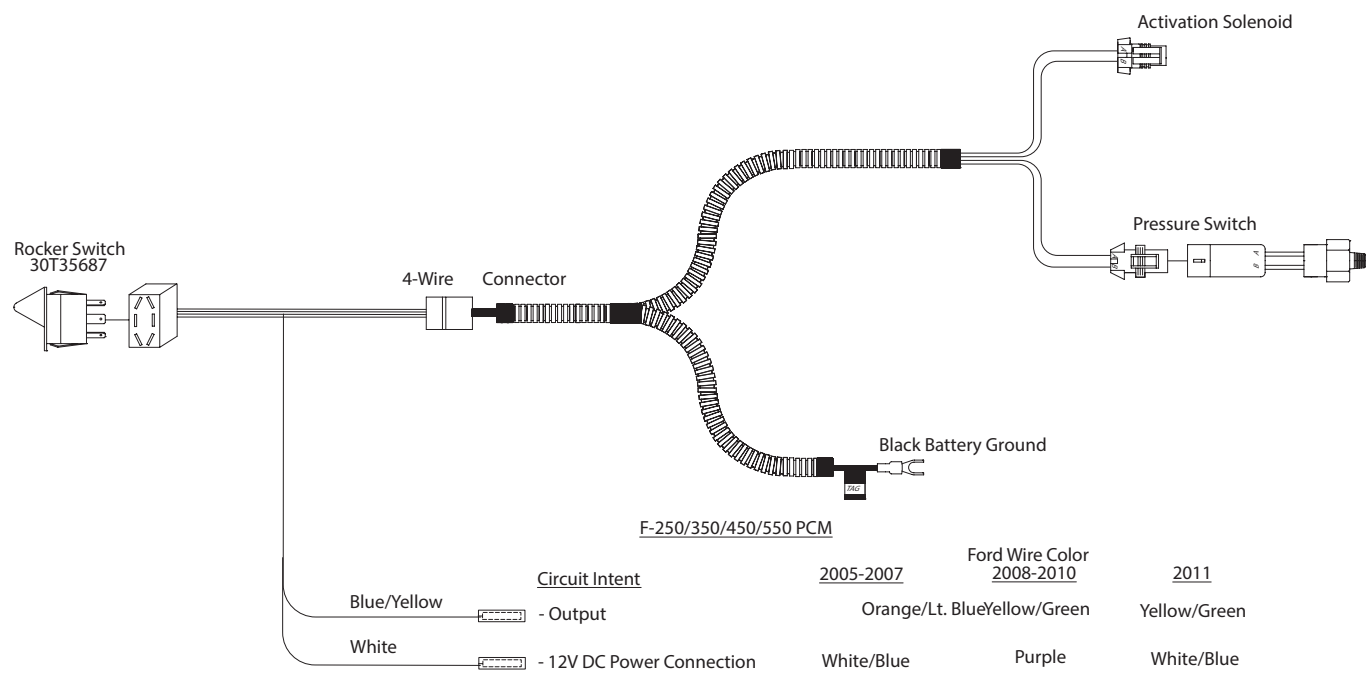
FR SERIES WIRING HARNESS OPTIONS

FR63/64 SPECIAL 2-POSITION SWITCH “Z” WIRING HARNESS: FORD 2003-2004



FR67 SPECIAL UTILITY OEM “Z” WIRING HARNESS: FORD 2005 & LATER

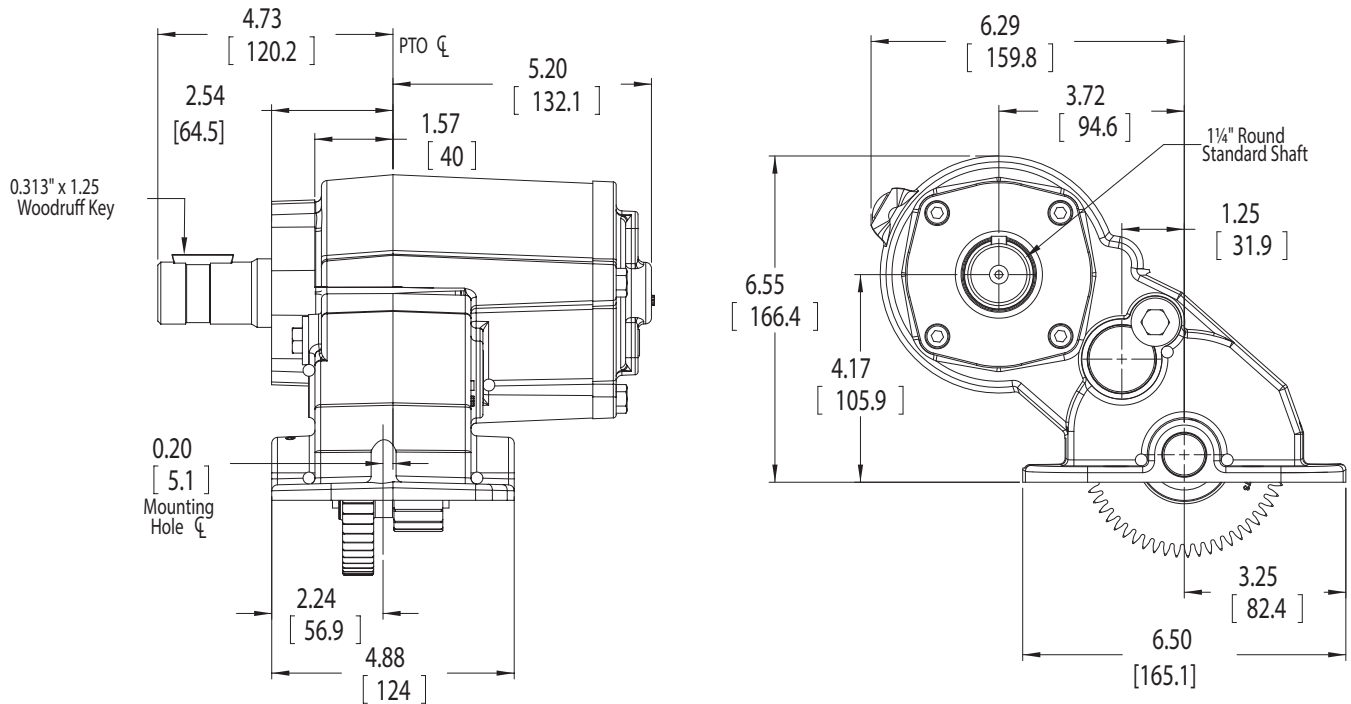
FR67 “Z” HARNESS — 34T41130



DIMENSIONS

FR63

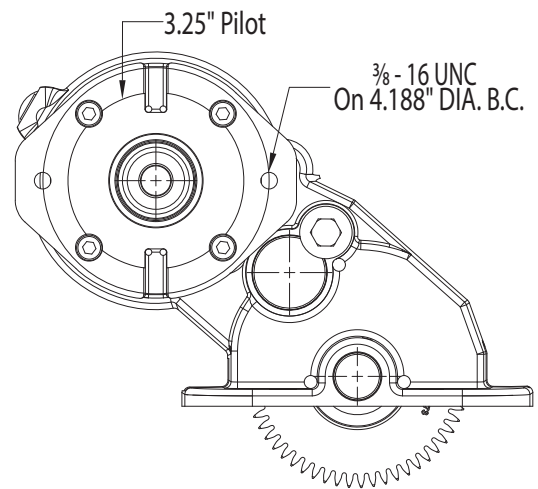
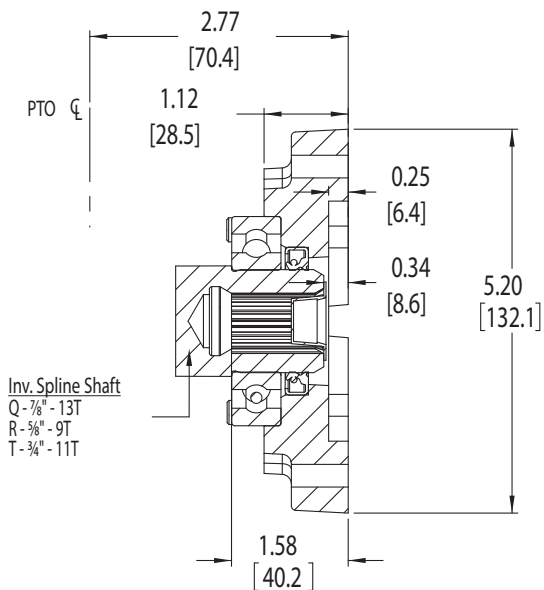
"B" OUTPUT OPTION – 1¼" ROUND KEYED SHAFT



"Q" OUTPUT OPTION – 7/8" – 13T

"R" OUTPUT OPTION – 5/8" – 9T

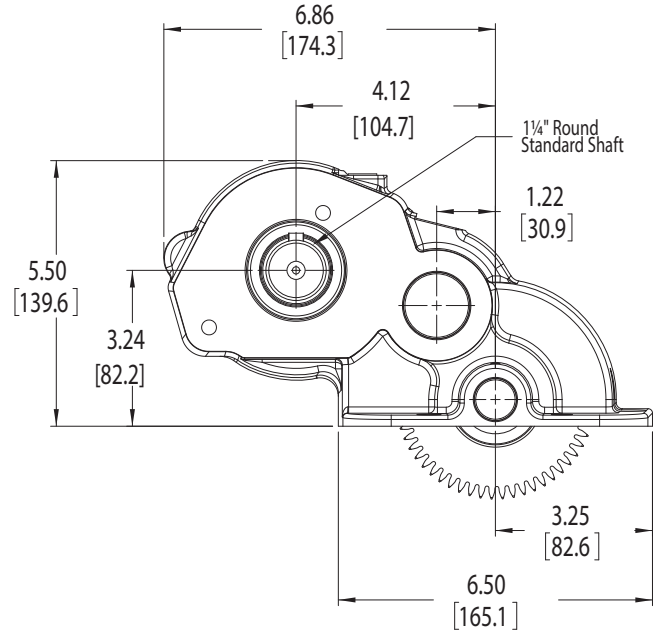
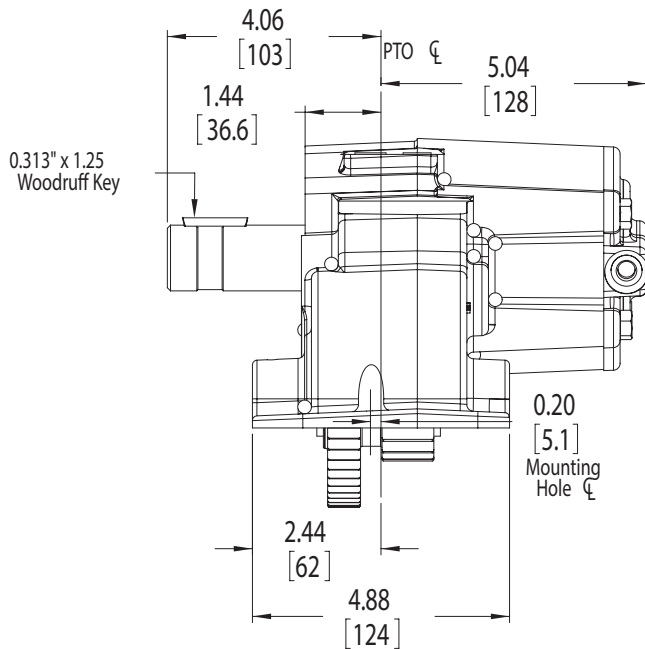
"T" OUTPUT OPTION – 3/4" – 11T



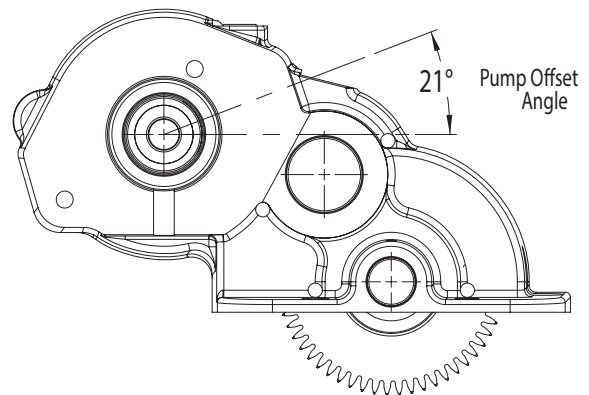
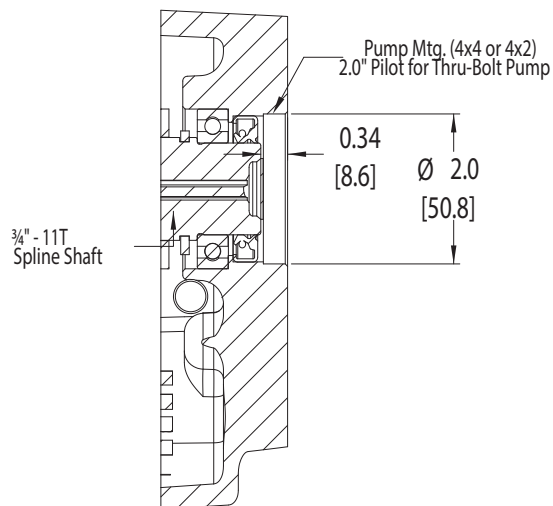
DIMENSIONS

FR64/67

“B” OUTPUT OPTION – 1¼" ROUND KEYED SHAFT

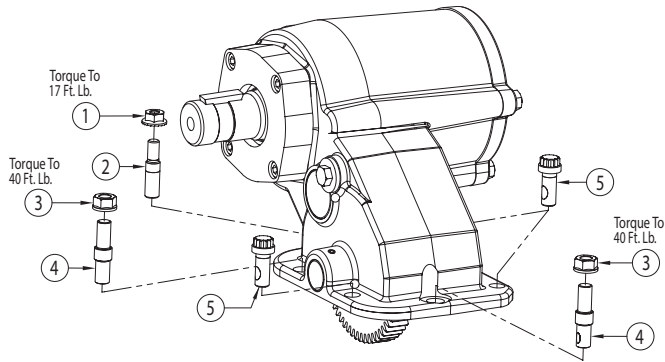


“N” OUTPUT OPTION – ¾" – 11T



FR SERIES STUD KITS

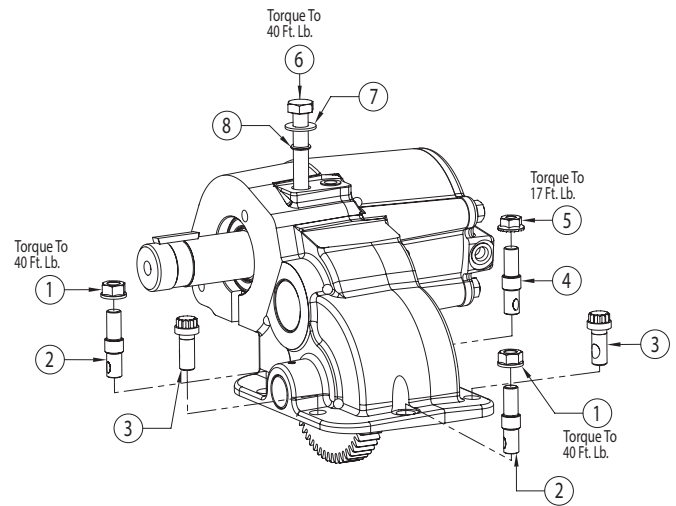
FR63 - 20TK4525



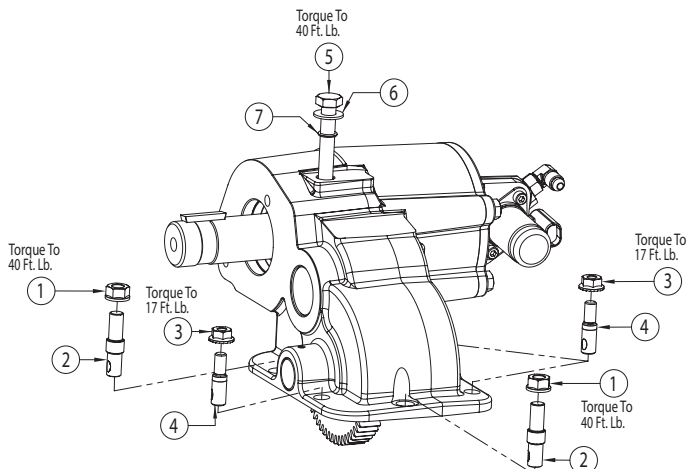
ITEM	QTY	PART NO.	DESCRIPTION
1	1	22T37605	Whiz-Lock Nut
2	1	20T37952	Step Stud
3	2	22T39282	Spirallock Nut
4	2	20T37914	Shoulder Stud
5	3	19T37727	12-Point Cap Screw (Metric)

ITEM	QTY	PART NO.	DESCRIPTION
1	2	22T39282	Spirallock Nut
2	2	20T37914	Shoulder Stud
3	2	19T37727	12-Point Cap Screw (Metric)
4	1	20T39529	Step Stud
5	1	22T37605	Whiz-Lock Nut
6	1	19T40712	Hex Head Cap Screw
7	1	21T36448	Washer
8	1	12T36881	O-Ring

FR64 - 20TK4542

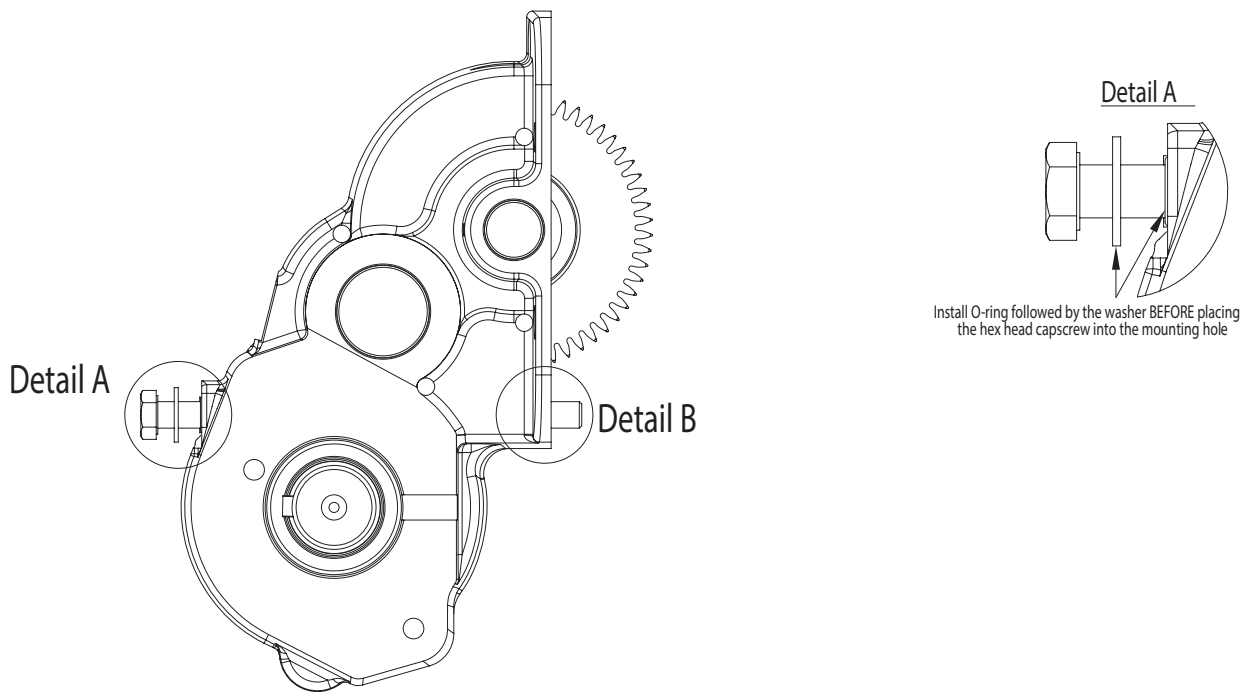


FR67 - 20TK5188



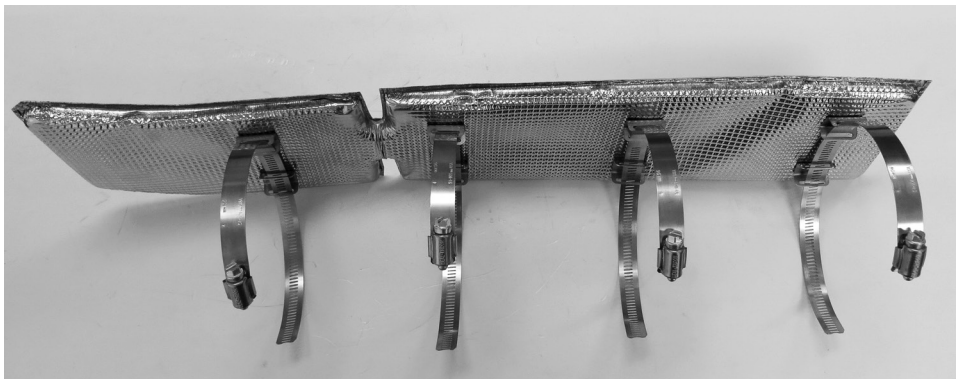
ITEM	QTY	PART NO.	DESCRIPTION
1	2	22T39282	Spirallock Nut
2	2	20T41404	Shoulder Stud
3	3	22T37605	Whiz-Lock Nut
4	13	20T41405	Step Stud
5	1	19T40712	Hex Head Cap Screw
6	1	21T36448	Washer
7	1	12T36881	O-Ring

FR64/67 — THRU-BOLT INSTALLATION



The FR67 is supplied with a mounting gasket 13T42173 to replace the original Ford PTO cover gasket. This gasket replaces the need for the O-Ring shown in detail B. The O-Ring groove has been removed from the PTO housing and the gasket must be used when mounting the PTO. The gasket can be used in the FR64 units also. The gasket is located in kit 43TK5183.

FORD vehicles with GAS engines and FR64/67 PTOs are supplied with heat Shield Kit 49TK5533.



A Member of the Interpump Group

SP11-05 (Rev. 02-25)

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