

Power Take-Offs Parts List

210 Series



WARNING – User Responsibility

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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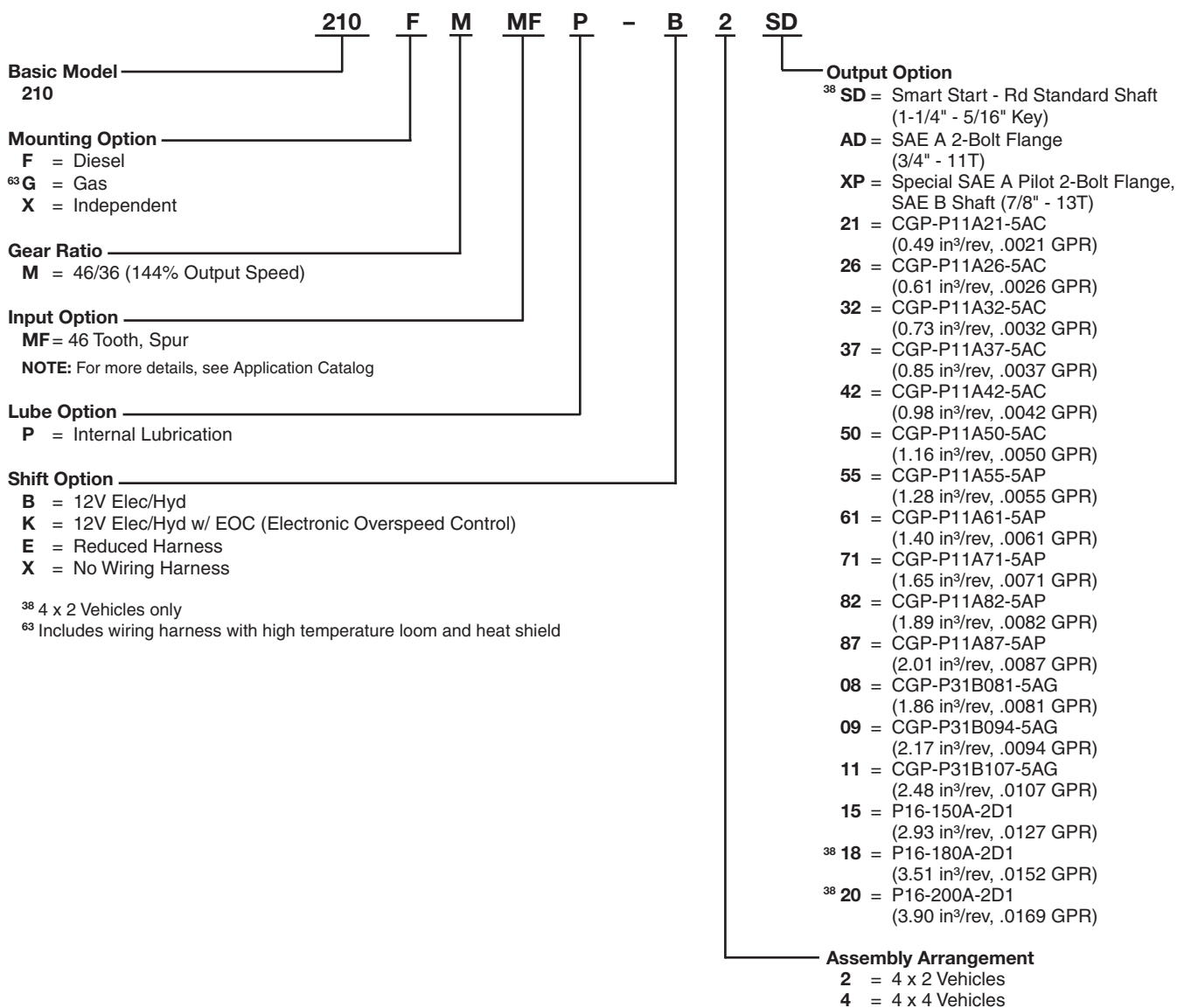
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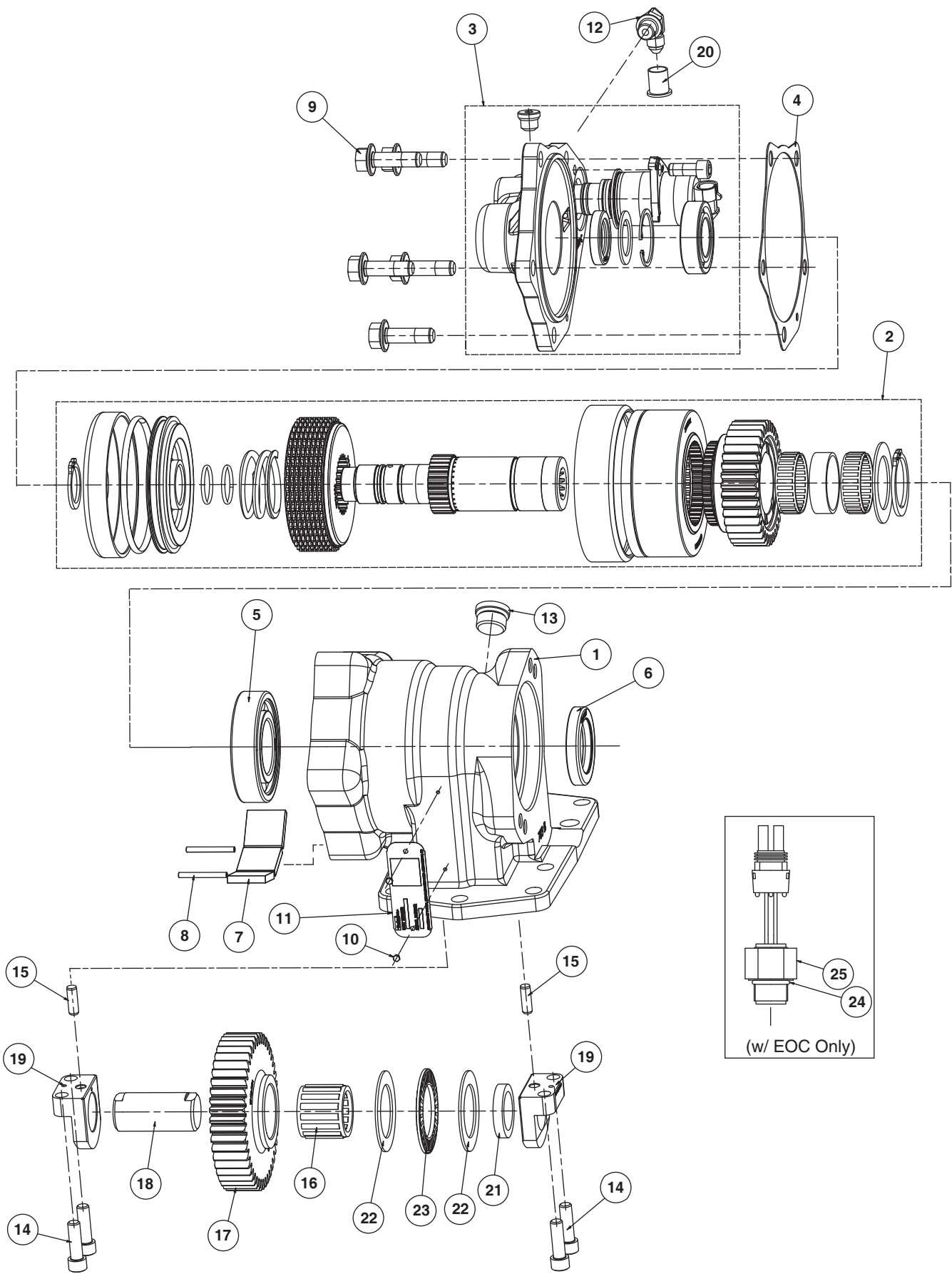
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Model Number Designator



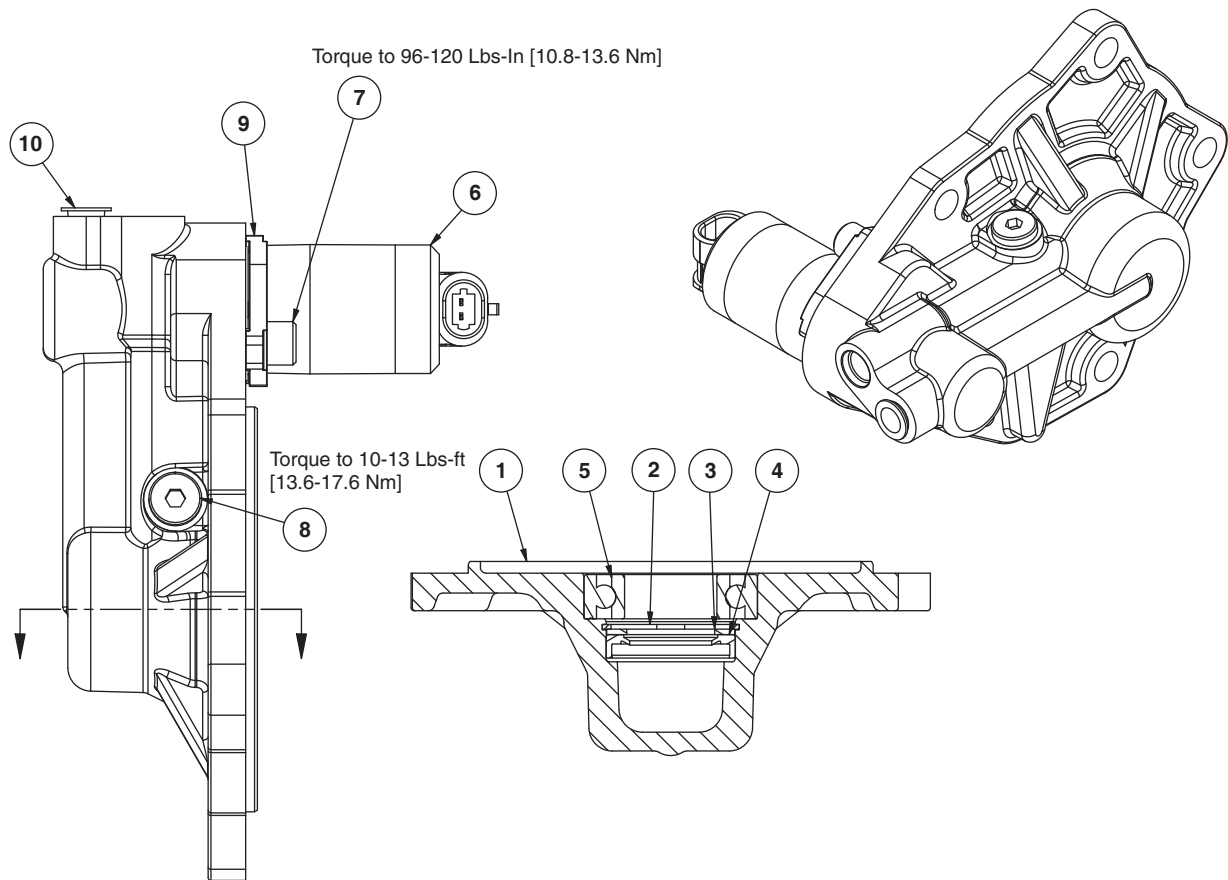


Bill of Materials**Parts List
210 Series**

Item	Part Number	Description	Qty.
1	1-P-783	Housing	1
2	See Page 6	Output Ass'y	1
3	330011X	Valve Cap Ass'y (See Page 4).....	1
4	22-P-152	Valve Cap Gasket.....	1
5	550010	Ball Bearing (1.378" x 2.835" x .669")	1
6	28-P-225	Oil Seal (2.004" x 1.375" x .315)	1
7	380682	Magnet Block (F and X Mount Only)	3
8	500595-16	Slotted Spring Pin (.125" x 1.250") (F and X Mount Only).....	2
9	380563-12	.375"-16 x 1.250" Hex Flat Head Capscrew (9/16" Hex)	5
10	378422	Drive Screw	2
11	68-P-51	Name Plate.....	1
12	379486	90° Elbow (.438"-20)	1
13	380664	.750"-16 Socket Hex Plug (5/16" Socket) (w/o EOC Only)	1
14	378447-6	.312"-18 x 1.000" Socket Head Capscrew (1/4" Socket)	4
15	380667	Dowel Pin (.250" x .750").....	2
16	561097	Needle Bearing (25mm x 35mm x 30mm).....	1
17	5-P-1597	Input Gear.....	1
18	9-P-129	Idler Shaft (.984")	1
19	21-P-898	Input Saddle	2
20	379564-2	Thread Cap (.438").....	1
21	14-P-94	Input Bearing Spacer.....	1
22	31-P-90	Thrust Washer (1.382" x 2.042" x .062")	2
23	378769	Thrust Bearing (1.375" x 2.000" x .125")	1
24	28-P-171	O-Ring (.644" x .087") (w/ EOC Only)	1
25	379243	Speed Sensor (w/ EOC Only).....	1
N.S.	500007-29	Woodruff Key (SD Output Only)	1
See page 14 for Bill of Materials for the below loose parts.			
LOOSE PARTS			
	379504	Reduced Wiring Harness (E Shift Only)	
	75-P-39	Wiring Harness (B Shift, Gas Only)	
	329616X	Wiring Harness (B Shift, Diesel Only)	
	329617X	Wiring Harness (K Shift Only)	
	329650X	Speed Limiter Ass'y (K Shift Only)	
	330007-1X	Seal and Label Owner's Manual Kit (Included in 330008X)	
	330007-2X	Integration Kit (Included in 330008X)	
	330007-3X	Heat Shield Kit (Gas Only)	
	330008X	Complete Installation Kit	
	8000-50X	Mounting Kit (Included in 330008X)	
SERVICE PARTS			
	28-P-397	Mounting Seal	
	330009-1X	Gasket and Seal Service Kit	
	330009-2X	Bearing Service Kit	
	330009-3X	Clutch Service Kit	
N.S. – Not Shown			

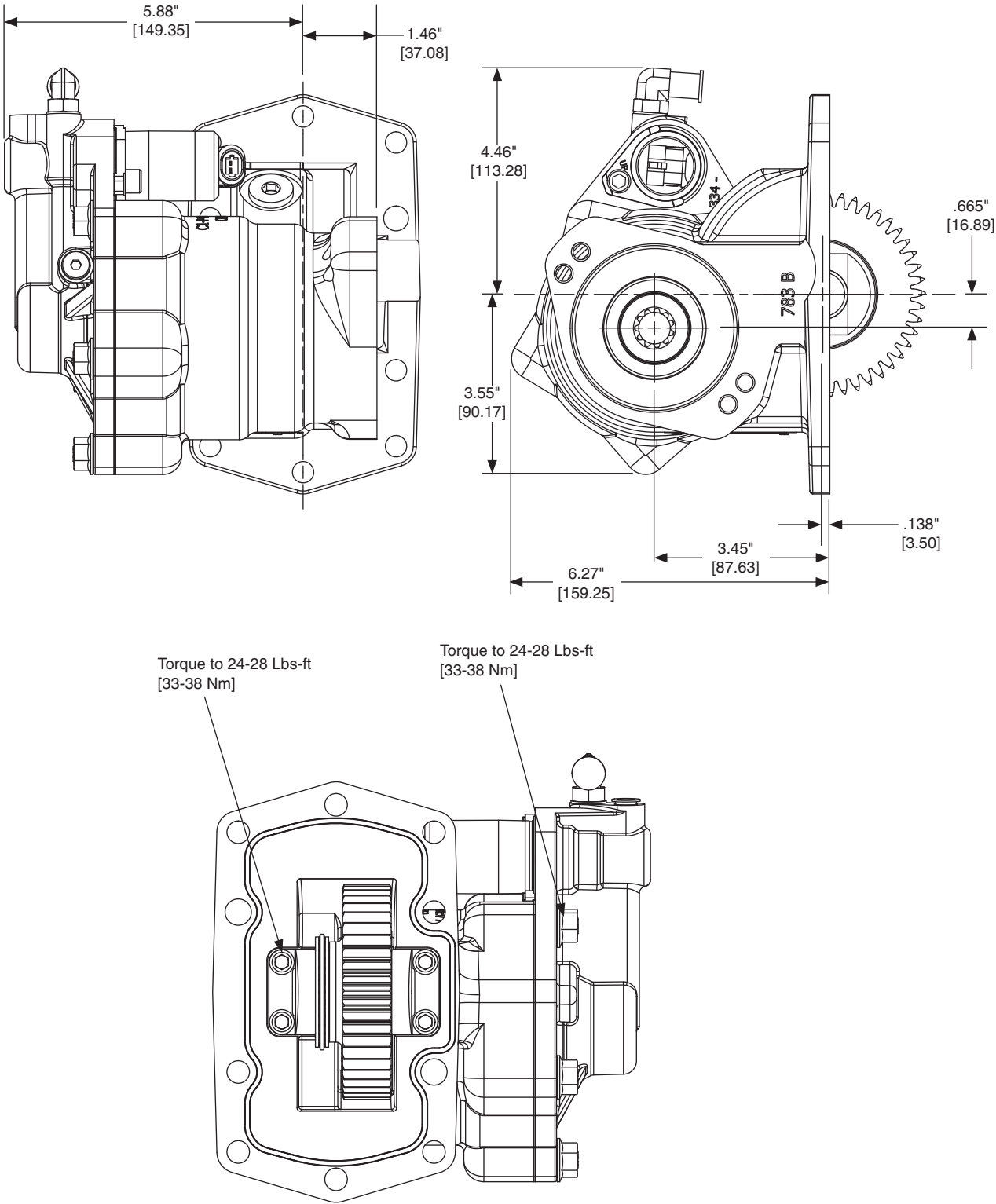
NOTE: Any 210G built before SN 02450000 uses same construction as F and X mounts

Valve Cap Assembly – 330011X

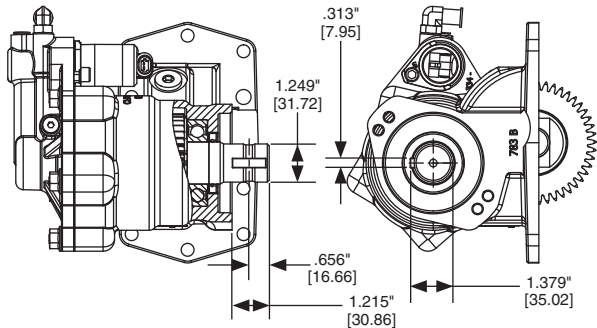


Item	Part Number	Description	Qty.
1	34-P-334	Valve Cap	1
2	378849	Lockring	1
3	378811	Seal Backup Plate	1
4	28-P-119	Oil Seal (1.379" x .875" x .250")	1
5	561031	Ball Bearing (.984" x 1.850" x .472")	1
6	380123-12	12V Cartridge Valve Non Regulating (includes 380124 Hold Down Clamp)	1
7	378447-4	1/4" Socket Head Capscrew (.312"-18 x .750")	1
8	379484	O-Ring Plug Boss (.438"-20)	1
9	380124	Hold Down Clamp	1
10	500897-5	Shipping Plug	1

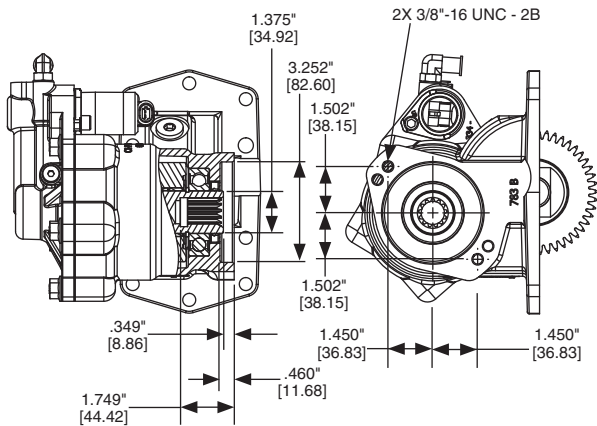
PTO Housing Dimensions



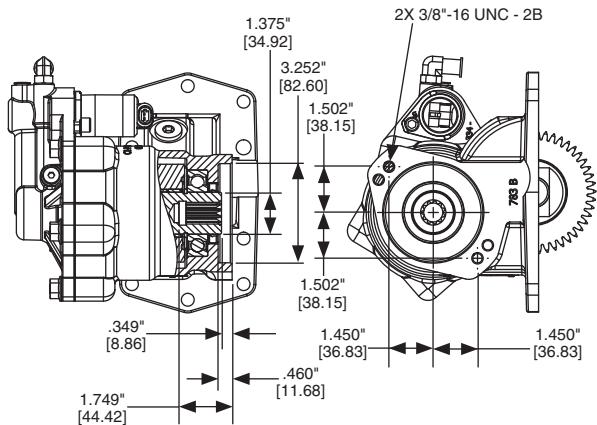
Bill of Materials – Driveline and Pump Mount



SD Output Option Smart Start - Round Standard Shaft (5/16" x 1-1/4")		
Part Number	Description	Qty.
330010-1X	F & X Mount Drive Shaft & Clutch Assembly.....	1 or
330010-4X	G Mount Drive Shaft & Clutch Assembly.....	1
3-P-1199	Output Shaft	1
500007-29	Woodruff Key	1

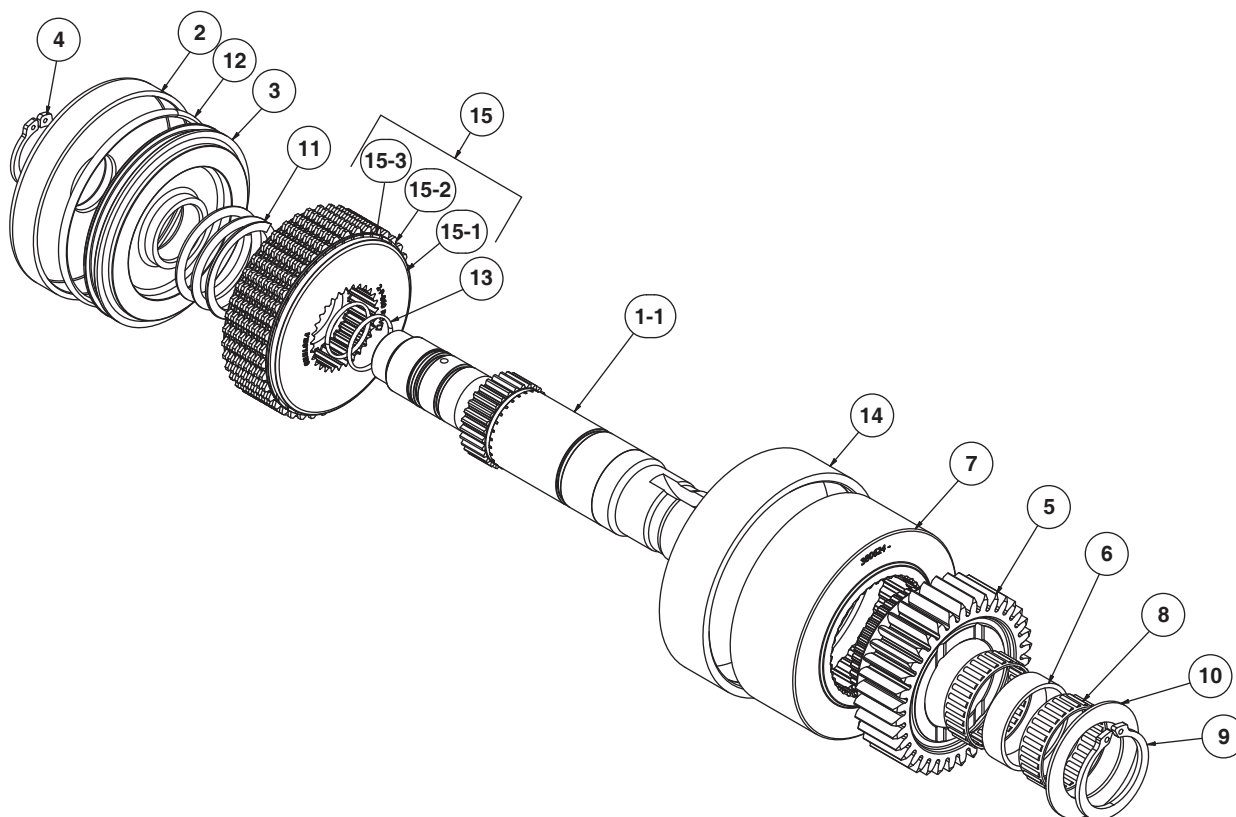


XP Output Option SAE A 2-Bolt Flange, SAE B Shaft (7/8" - 13T)		
Part Number	Description	Qty.
330010-3X	F & X Mount Drive Shaft & Clutch Assembly.....	1 or
330010-6X	G Mount Drive Shaft & Clutch Assembly.....	1
3-P-1198	Output Shaft	1



AD Output Option SAE A 2-Bolt Flange, SAE 19-4 Shaft (3/4" - 11T)		
Part Number	Description	Qty.
330010-2X	F & X Mount Drive Shaft & Clutch Assembly.....	1 or
330010-5X	G Mount Drive Shaft & Clutch Assembly.....	1
3-P-1197	Output Shaft	1

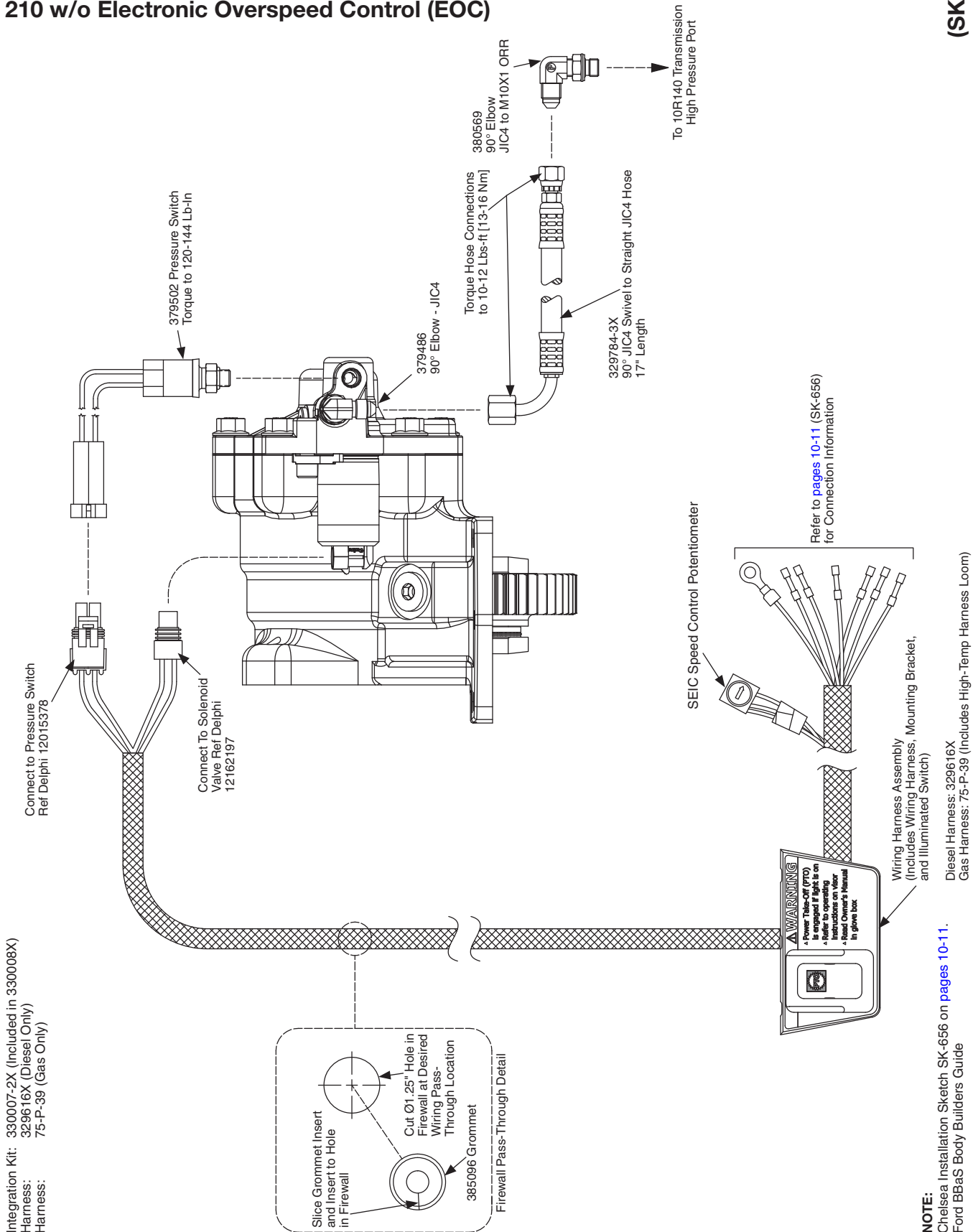
NOTE: Any 210G built before SN 02450000 used same construction as F and X mounts

Drive Shaft & Clutch Assembly – 330010-*X

Item	Part Number	Description	Qty.
1-1	3-P-1199	SD Output Shaft (1.25" Keyed w/ Smart Start) (330010-1X & 330010-4X).....	1 or
	3-P-1197	AD Output Shaft (3/4" - 11T) (330010-2X & 330010-5X)	1 or
	3-P-1198	XP Output Shaft (7/8" - 13T) (330010-3X & 330010-6X)	1
2	380062	Clutch Cylinder	1
3	380063	Clutch Piston	1
4	379693	Lockring.....	1
5	2-P-987	Output Gear.....	1
6	14-P-91	Spacer (1.400" x 1.555" x .440")	1
7	380624	Bell Gear.....	1
8	562000	Needle Bearing (35mm x 40mm x 13mm).....	2
9	378576	Lockring.....	1
10	31-P-90	Thrust Washer (1.382" x 2.042" x .062")	1
11	37-P-56	Spring (1.75" x 1.51")	1
12	28-P-288	O-Ring (3.234" x .139")	1
13	28-P-289	O-Ring (.864" x .070")	2
14	380683	Eddy Ring (330010-1X, -2X, -3X Only)	1
15	329989X	Clutch Kit (Includes items 15-1, 15-2, and 15-3)	1
15-1	2-P-860	Output Gear.....	(1)
15-2	380625	Clutch Plate	(8)
15-3	379691	Friction Disc.....	(9)

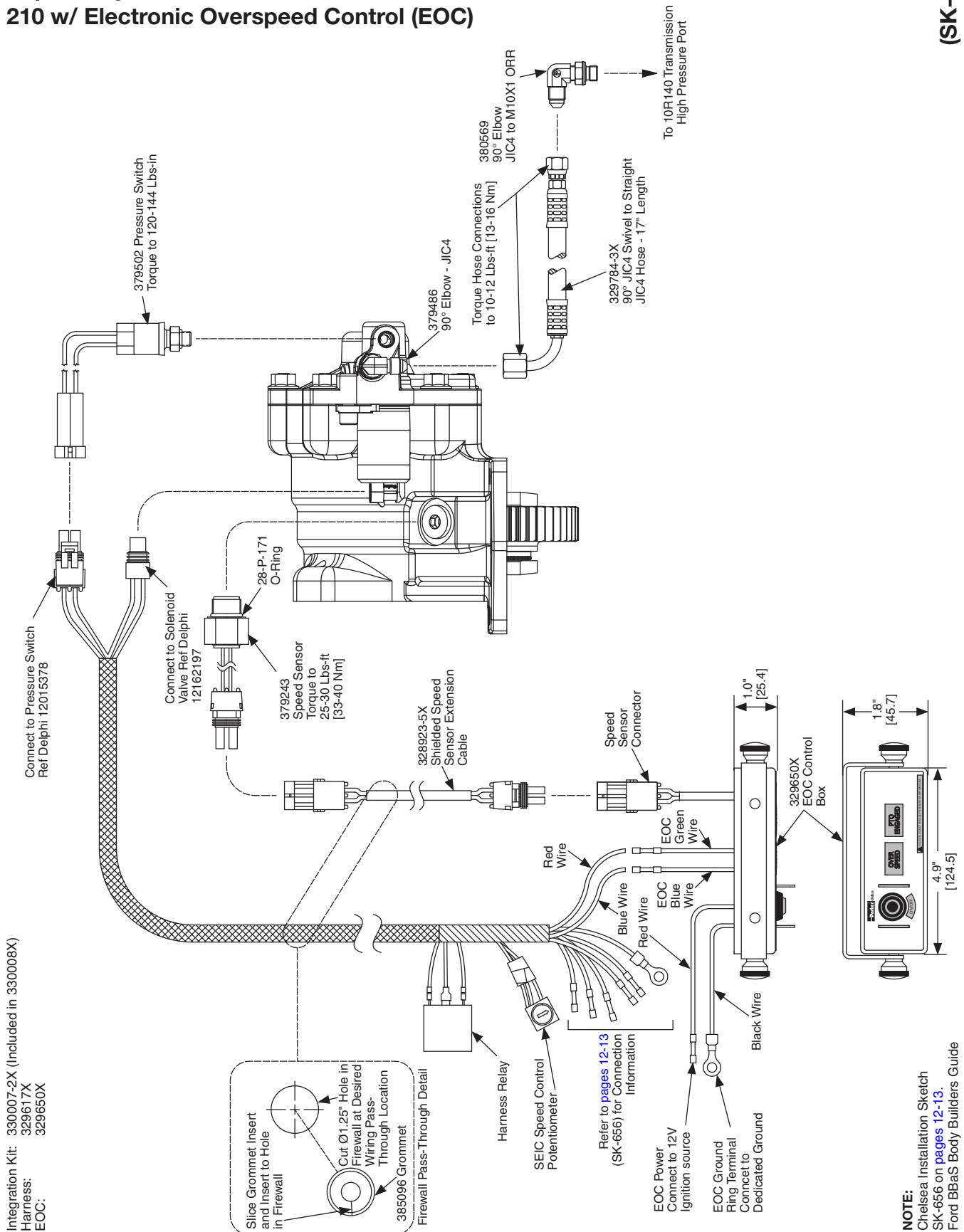
**Wiring Installation (Shift Option B)
Super Duty F-250/350/450/550/600 – MY2020
210 w/o Electronic Overspeed Control (EOC)**

(SK-658)



**Wiring Installation (Shift Option K)
Super Duty F-250/350/450/550/600 – MY2020
210 w/ Electronic Overspeed Control (EOC)**

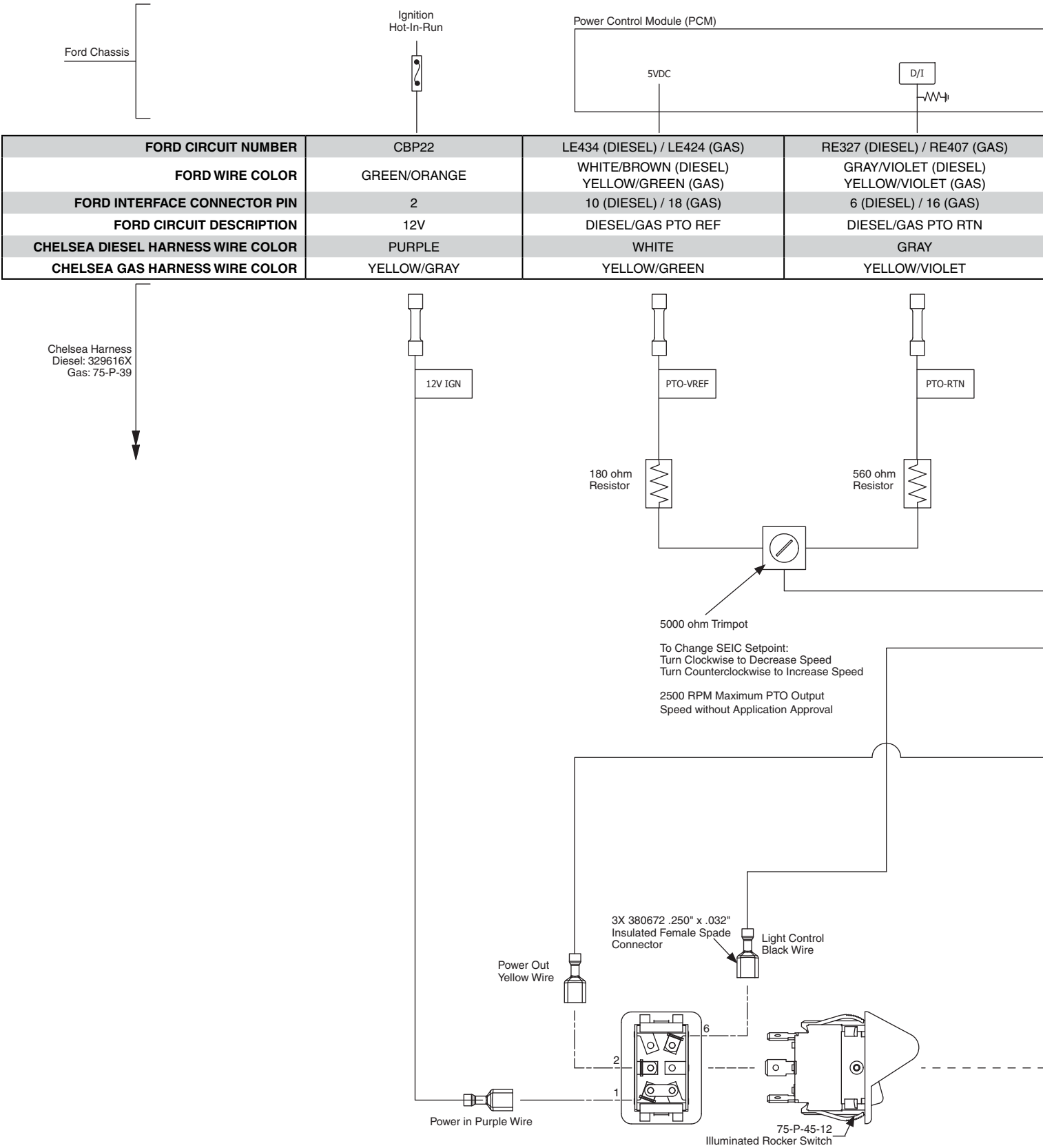
(SK-660)



NOTE:
Chelsea Installation Sketch
SK-656 on [pages 12-13](#).
Ford BBaS Body Builders G

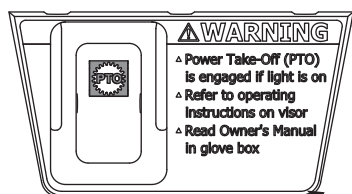
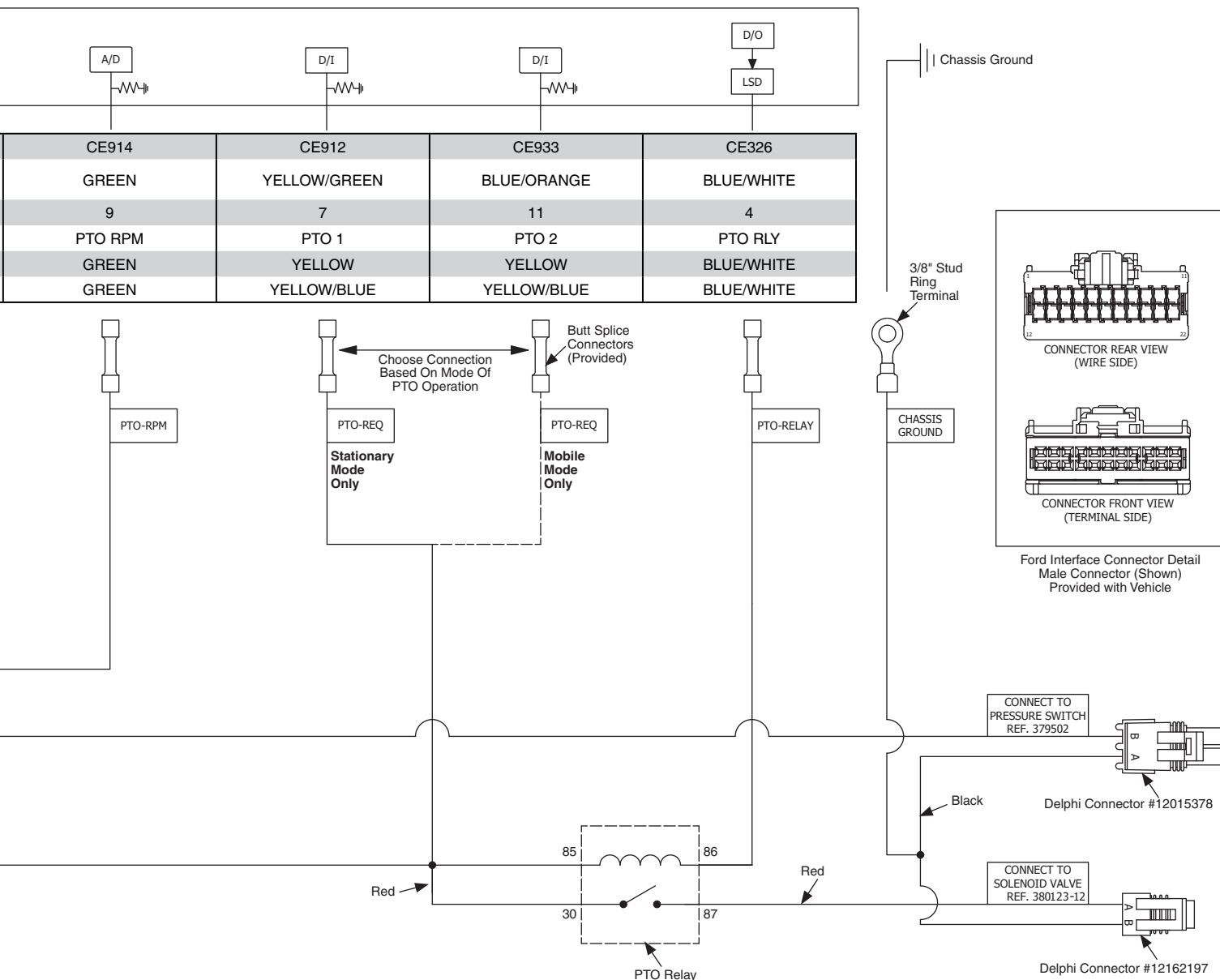
Wiring Chart PTO to Ford
Super Duty F-250/350/450/550/600 – MY2020
210 Diesel / Gas w/o Electronic Overspeed Control (EOC)

(SK-656 Rev B)



Wiring Chart PTO to Ford (Continued)
Super Duty F-250/350/450/550/600 – MY2020
210 Diesel / Gas w/o Electronic Overspeed Control (EOC)

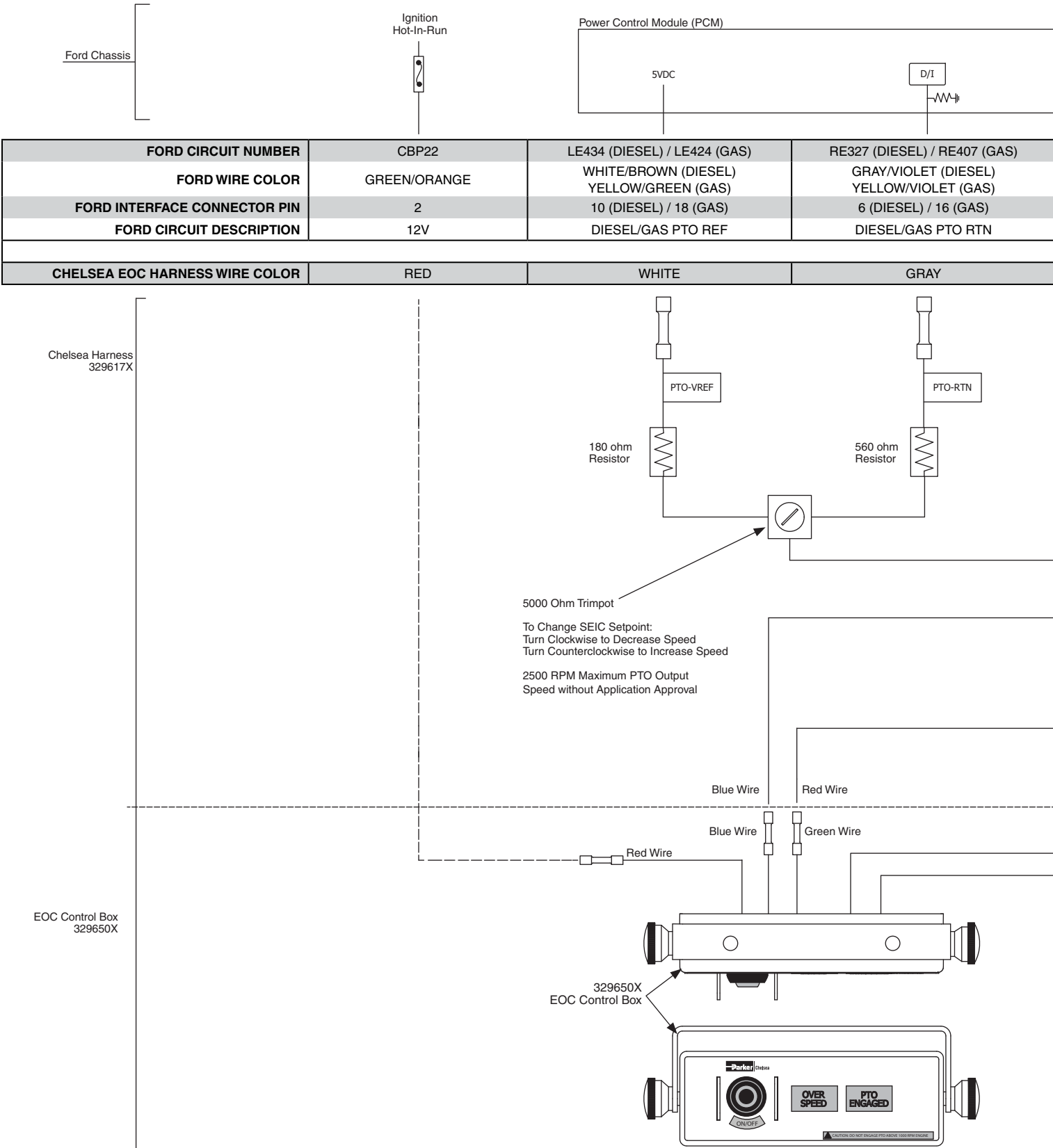
(SK-656 Rev B)



- NOTES:**
- 1) All Chelsea Harness Wire is 18 Awg
 - 2) Potentiometer is Preset to Furthest Clockwise Position (Minimum Speed)
 - 3) Relay is Secured to Reverse of Bracket (Non EOC Only)
 - 4) Refer to Ford SVE Bulletin Q-256

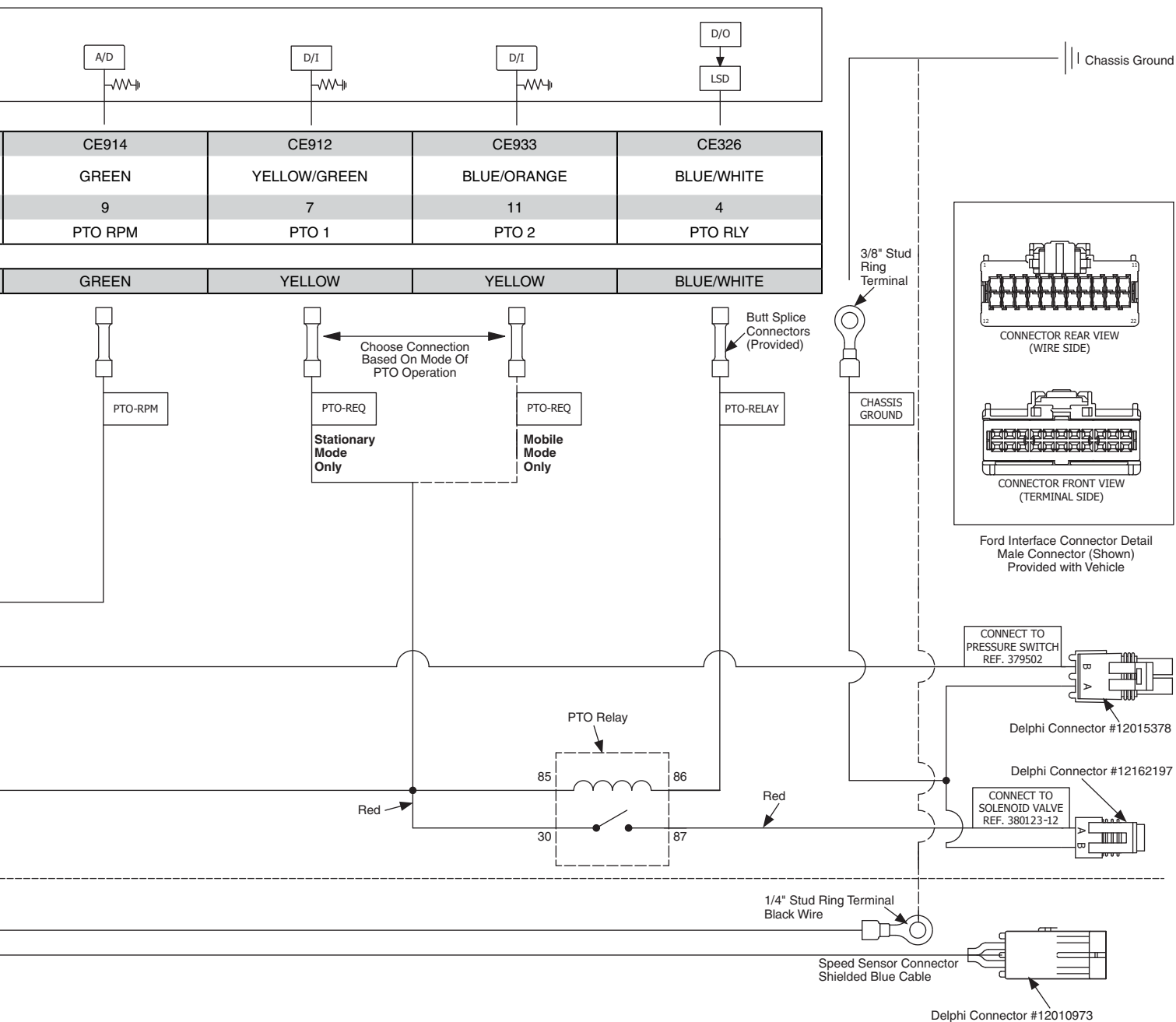
Wiring Chart PTO to Ford
Super Duty F-250/350/450/550/600 – MY2020
210 Diesel / Gas w/ Electronic Overspeed Control (EOC)

(SK-656 Rev B)



Wiring Chart PTO to Ford (Continued)
Super Duty F-250/350/450/550/600 – MY2020
210 Diesel / Gas w/ Electronic Overspeed Control (EOC)

(SK-656 Rev B)



NOTES:

- 1) All Chelsea Harness Wire is 18 Awg
- 2) Potentiometer is Preset to Furthest Clockwise Position (Minimum Speed)
- 3) Relay is Secured to Reverse of Bracket (Non EOC Only)
- 4) Refer to Ford SVE Bulletin Q-256

Part Number	Description	Qty.	Part Number	Description	Qty.
INSTALLATION KITS			SERVICE KITS		
330008X	Installation Kit		330009-1X	Gasket and Seal Service Kit	
330007-1X	Seal and Label Owner's Manual Kit.....	1	22-P-152	Valve Cap Gasket.....	1
330007-2X	Integration Kit	1	28-P-225	Oil Seal (2.004" x 1.375" x .315")	1
8000-50X	Mounting Kit.....	1	28-P-119	Oil Seal (1.379" x .875" x .250")	1
			28-P-288	O-Ring (3.234" x .139")	1
			28-P-289	O-Ring (.864" x .070")	2
330007-1X	Seal and Label Owner's Manual Kit		379693	Lockring.....	1
328946X	Caution Label Kit.....	1	28-P-397	Mounting Seal.....	1
379085-2	PTO Instruction Decal	1	28-P-171	O-Ring (.644" x .087")	1
379624	Product Warranty Card	1	379484	O-Ring Boss Plug (.438"-20)	1
69-P-21	Caution Label	1			
28-P-397	Mounting Seal.....	1			
Owner's Manual	HY25-1400-M1/US	1			
Safety Guide	HY25-1002-M1/US	1			
			330009-2X	Bearing Service Kit	
330007-2X	Integration Kit		550010	Ball Bearing (1.378" x 2.835" x .669")	1
379502	Pressure Switch.....	1	561097	Needle Bearing (25mm x 35mm x 30mm).....	1
380569	90° Elbow (M10-JIC4)	1	562000	Needle Bearing (35mm x 40mm x 13mm).....	2
385096	Grommet.....	1	561031	Ball Bearing (.984" x 1.850" x .472")	1
329784-3X	Hose Ass'y (17")	1	378769	Thrust Bearing (1.375" x 2.000" x .125")	1
			31-P-90	Thrust Washer (1.38" x 2.04" x .062")	2
8000-50X	Mounting Kit		378576	Lockring.....	1
379451	Pilot Screw.....	2			
380666	Bushing Dowel (M10 x 15mm)	2	378447-6	1/4" Socket Head Capscrew (.312"-18 x 1.000").....	4
380659	Capscrew (M10-1.5 x 30mm)	8	380563-12	Hex Head Flange Capscrew (.375"-16 x 1.250") Grade 8.....	5
SK-657	Mounting Installation Card.....	1			
			330009-3X	Clutch Service Kit	
329616X	Wiring Harness (Diesel Only).....	1	329989X	Clutch Kit	1
			379693	Lockring.....	1
75-P-39	Wiring Harness (Gas Only).....	1			
330007-3X	Heat Shield Kit				
329931-1	Straight Heat Shield.....	1			
329931-2	Elbow Heat Shield	2			
329931-3	Stainless Steel Cable Tie.....	12			
329617X	Wiring Harness (K Shift Only w/ EOC)	1			
329650X	Speed Limiter Assembly (K Shift Option)				
328923-10X	Speed Sensor Cable - 10 ft.....	1			
	.250"-20 NC Hex Bolt x 1" Lg.....	2			
	.250" Flat Washer	2			
	.250" Lock Washer.....	2			
	.250" Hex Nut	2			
Owners Manual	HY25-1650-M1/US (5.50" x 7.50")	1			
20071-3	EOC Unit (NSS).....	1			

BOMs in each kit group are listed in order based on part number.

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Offer of Sale Continued

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14. Cancellations and Changes. Buyer may not cancel or modify, including but not limited to movement of delivery dates for the Products, any order for any reason except with Seller's written consent and upon terms that will indemnify, defend and hold Seller harmless against all direct, incidental and consequential loss or damage and any additional expense. Seller, at any time, may change features, specifications, designs and availability of Products.

15. Limitation on Assignment. Buyer may not assign its rights or obligations without the prior written consent of Seller.

16. Force Majeure. Seller is not liable for delay or failure to perform any of its obligations by reason of events or circumstances beyond its reasonable control. Such circumstances include without limitation: accidents, labor disputes or stoppages, government acts or orders, acts of nature, pandemics, epidemics, other widespread illness, or public health emergency, delays or failures in delivery from carriers or suppliers, shortages of materials, war (whether declared or not) or the serious threat of same, riots, rebellions, acts of terrorism, fire or any reason whether similar to the foregoing or otherwise. Seller will resume performance as soon as practicable after the event of force majeure has been removed. All delivery dates affected by force majeure shall be tolled for the duration of such force majeure and rescheduled for mutually agreed dates as soon as practicable after the force majeure condition ceases to exist. Force majeure shall not include financial distress, insolvency, bankruptcy, or other similar conditions affecting one of the parties, affiliates and/or sub-contractors.

17. Waiver and Severability. Failure to enforce any provision of these Terms will not invalidate that provision; nor will any such failure prejudice either party's right to enforce that provision in the future. Invalidation of any provision of these Terms shall not invalidate any other provision herein and, the remaining provisions will remain in full force and effect.

18. Termination. Seller may terminate any agreement governed by or arising from these Terms for any reason and at any time by giving Buyer thirty (30) days prior written notice. Seller may immediately terminate, in writing, if Buyer: (a) breaches any provision of these Terms, (b) becomes or is deemed insolvent, (c) appoints or has appointed a trustee, receiver or custodian for all or any part of Buyer's property, (d) files a petition for relief in bankruptcy on its own behalf, or one is filed against Buyer by a third party, (e) makes an assignment for the benefit of creditors; or (f) dissolves its business or liquidates all or a majority of its assets.

19. Ownership of Software. Seller retains ownership of all Software supplied to Buyer hereunder. In no event shall Buyer obtain any greater right in and to the Software than a right in the nature of a license limited to the use thereof and subject to compliance with any other terms provided with the Software.

20. Indemnity for Infringement of Intellectual Property Rights.

Seller is not liable for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights ("Intellectual Property Rights") except as provided in this Section. Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on a third party claim that one or more of the Products sold hereunder infringes the Intellectual Property Rights of a third party in the country of delivery of the Products by Seller to Buyer. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of any such claim, and Seller having sole control over the defense of the claim including all negotiations for settlement or compromise. If one or more Products sold hereunder is subject to such a claim, Seller may, at its sole expense and option, procure for Buyer the right to continue using the Products, replace or modify the Products so as to render them non-infringing, or offer to accept return of the Products and refund the purchase price less a reasonable allowance for depreciation. Seller has no obligation or liability for any claim of infringement: (i) arising from information provided by Buyer; or (ii) directed to any Products provided hereunder for which the designs are specified in whole or part by Buyer; or (iii) resulting from the modification, combination or use in a system of any Products provided hereunder. The foregoing provisions of this Section constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for claims of infringement of Intellectual Property Rights.

21. Governing Law. These Terms and the sale and delivery of all Products are deemed to have taken place in, and shall be governed and construed in accordance with, the laws of the State of Ohio, as applicable to contracts executed and wholly performed therein and without regard to conflicts of laws principles. Buyer irrevocably agrees and consents to the exclusive jurisdiction and venue of the courts of Cuyahoga County, Ohio with respect to any dispute, controversy or claim arising out of or relating to the sale and delivery of the Products.

22. Entire Agreement. These Terms, along with the terms set forth in the main body of any Quote, forms the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive expression of the terms of sale and purchase. In the event of a conflict between any term set forth in the main body of a Quote and these Terms, the terms set forth in the main body of the Quote shall prevail. All prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter shall have no effect. These Terms may not be modified unless in writing and signed by an authorized representative of Seller.

23. Compliance with Laws. Buyer agrees to comply with all applicable laws, regulations, and industry and professional standards, including those of the United States of America, and the country or countries in which Buyer may operate, including without limitation the U.S. Foreign Corrupt Practices Act ("FCPA"), the U.S. Anti-Kickback Act ("Anti-Kickback Act"), U.S. and E.U. export control and sanctions laws ("Export Laws"), the U.S. Food Drug and Cosmetic Act ("FDCA"), and the rules and regulations promulgated by the U.S. Food and Drug Administration ("FDA"), each as currently amended. Buyer agrees to indemnify, defend, and hold harmless Seller from the consequences of any violation of such laws, regulations and standards by Buyer, its employees or agents. Buyer acknowledges that it is familiar with all applicable provisions of the FCPA, the Anti-Kickback Act, Export Laws, the FDCA and the FDA and certifies that Buyer will adhere to the requirements thereof and not take any action that would make Seller violate such requirements. Buyer represents and agrees that Buyer will not make any payment or give anything of value, directly or indirectly, to any governmental official, foreign political party or official thereof, candidate for foreign political office, or commercial entity or person, for any improper purpose, including the purpose of influencing such person to purchase Products or otherwise benefit the business of Seller. Buyer further represents and agrees that it will not receive, use, service, transfer or ship any Products from Seller in a manner or for a purpose that violates Export Laws or would cause Seller to be in violation of Export Laws. Buyer agrees to promptly and reliably provide Seller all requested information or documents, including end-user statements and other written assurances, concerning Buyer's ongoing compliance with Export Laws.

08/20



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