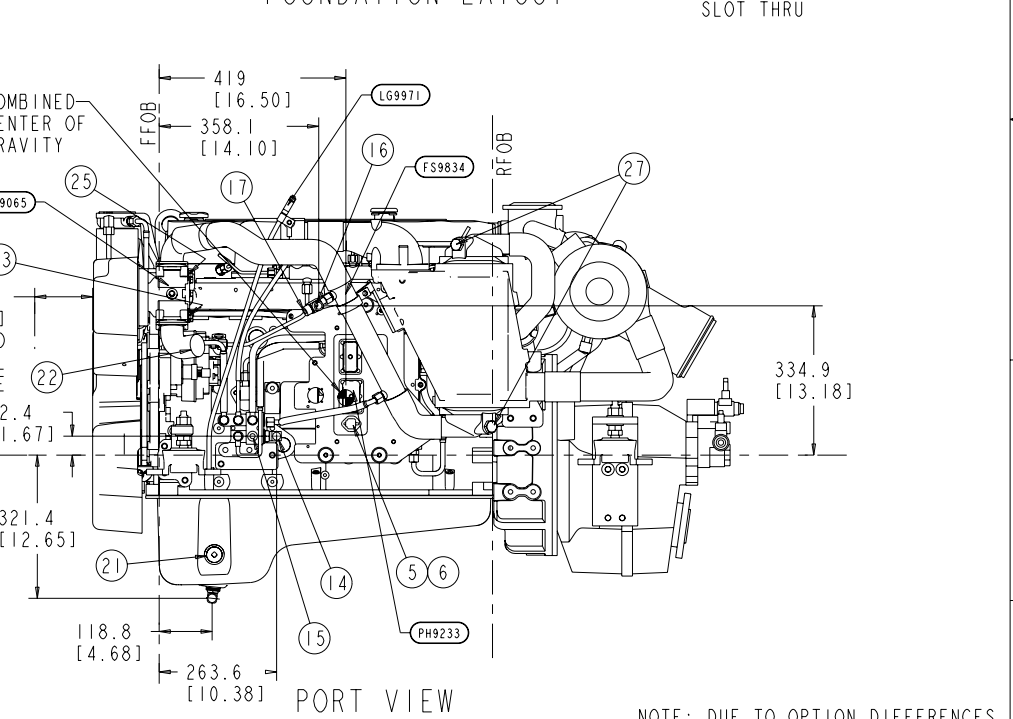
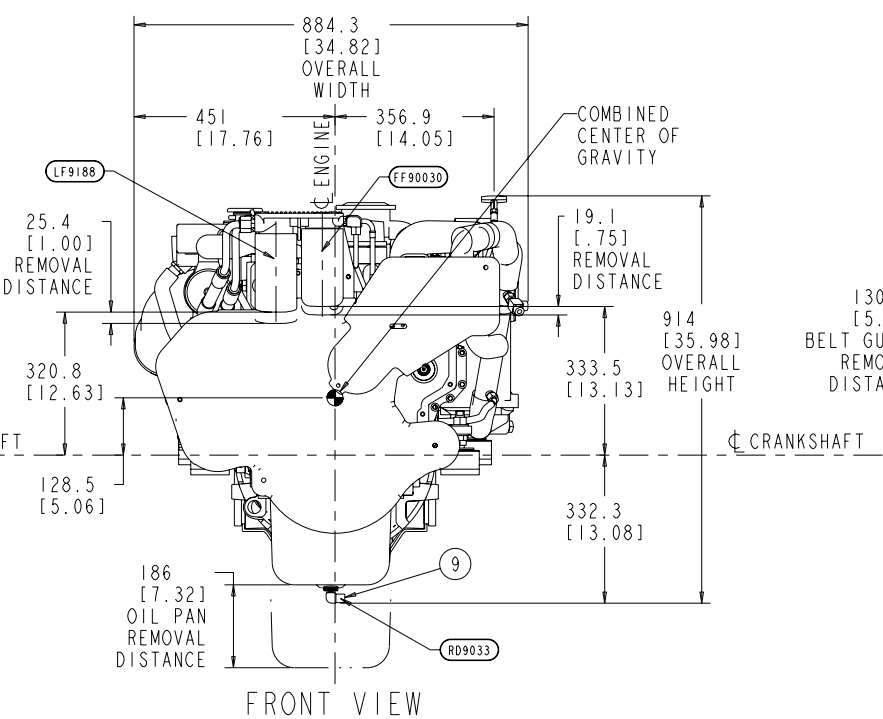
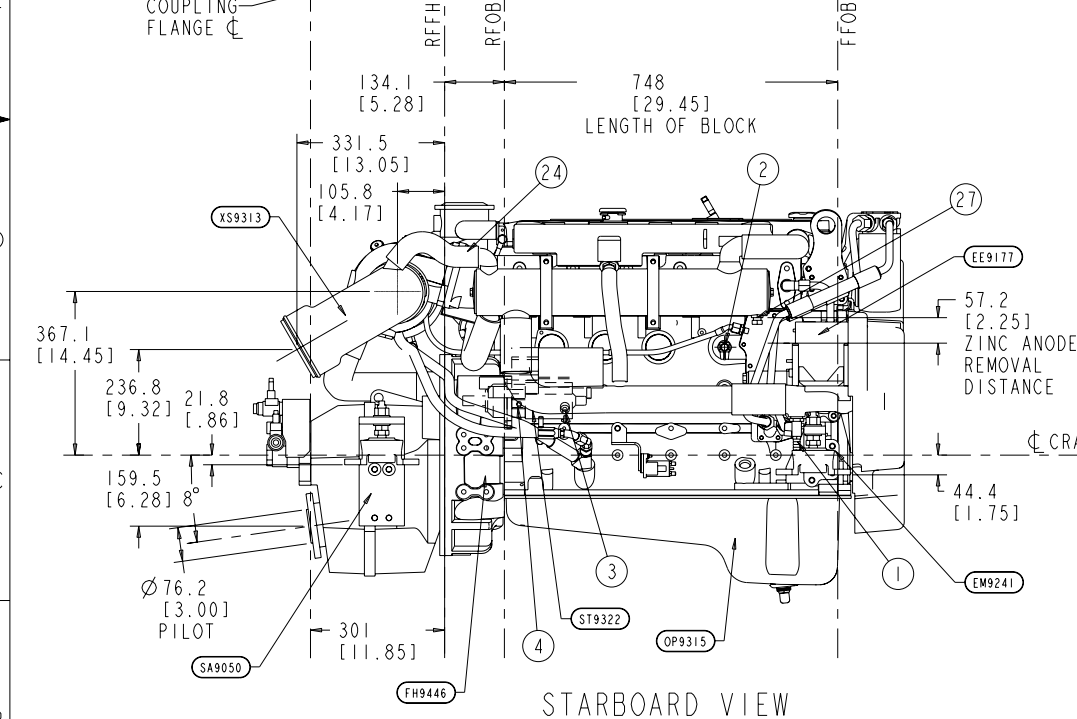




ENGINE SERVICE TEST PORTS/INSTALLATION CONNECTIONS					
① AUXILIARY HEATER RETURN:	5/8 BARBED	⑩ ENGINE OIL FILL:	Ø29.5 [1.16]	⑲ GEAR OIL COOLER INLET:	1/2-14 NPT
② AUXILIARY HEATER SUPPLY:	5/8 BARBED	⑪ EXHAUST OUTLET CONNECTION (ELBOW):	Ø152.4 [6.00] O.D.	⑳ GEAR OIL COOLER OUTLET:	1/2-14 NPT
③ BATTERY CONNECTION (STARTER) (+):	M10 X 1.5	⑫ EXHAUST OUTLET CONNECTION (TURBO):	4X M8 X 1.25 ▽ 17.8	㉑ OIL HEATER CONNECTION:	M22 X 1.5
④ BATTERY CONNECTION (STARTER) (-):	M10 X 1.5	⑬ EXHAUST TEMP. /BACK PRESSURE TEST PORT:	1/8-27 NPT	㉒ SEA WATER INLET:	Ø50.8 [2.00] O.D.
⑤ BATTERY CONNECTION (ECM) (+):	(4) PIN DEUTSCH	⑭ FUEL INLET CONNECTION:	3/4-16 (37°-#8)	㉓ SEA WATER INLET TEST PORT:	1/4-18 NPT
⑥ BATTERY CONNECTION (ECM) (-):	(4) PIN DEUTSCH	⑮ FUEL INLET TEST PORT:	M10 X 1.0	㉔ SEA WATER OUTLET:	Ø38.1 [1.50] O.D.
⑦ COOLANT FILL:	Ø34.7 [1.36]	⑯ FUEL RETURN TO TANK CONNECTION:	3/8-18 NPT	㉕ SEA WATER OUTLET TEST PORT:	1/4-18 NPT
⑧ COOLANT RECOVERY/OVERFLOW CONN.:	Ø9.6 [.38]	⑰ FUEL RETURN TEST PORT:	1/4-18 NPT	㉖ SHAFT LOG SEA WATER SUPPLY:	2X 1/8-27 NPT, (TOP)
⑨ ENGINE OIL DRAIN:	3/4-16 (37°-#8)	⑱ GEAR OIL COOLER DRAIN:	2X 1/8-27 NPT, (BOTTOM)	㉗ ZINC ANODE:	3X 1/2-14 NPT

NOTE: DUE TO OPTION DIFFERENCES,
CG DATA IS APPROXIMATE.

PRODUCT GRAPHICS FILE
NO ORIGINAL DRAWING EXISTS FOR THIS
ITEM. THE ENGINEERING GRAPHICS DATA
FOR THIS ITEM RESIDES IN THE PRODUCT
GRAPHICS FILE AND IS CONTROLLED BY
THE AGENCY DESIGNATED AS HAVING
ITEM CONTROL.

DO NOT SCALE THIS DRAWING

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LAST SECTION USED :		REF. DRAWING STANDARDS: ANSI Y14.5M ISO 1501	CUMMINS INC.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN: MILLIMETERS [] ARE IN: INCHES			ITEM NAME QSB 5.9 QSB W/ ZF85A	
			IDENTIFIER INSTALLATION DIAGRAM	
DWN	TWOFOALG	97-29-20	SIZE CODE IDENT. NO.	ITEM NUMBER
CHD	UNCHECKED		J	4953664
APPD			SCALE: 260	ITEM CONTROL: MCS
				SHEET 1 OF 1