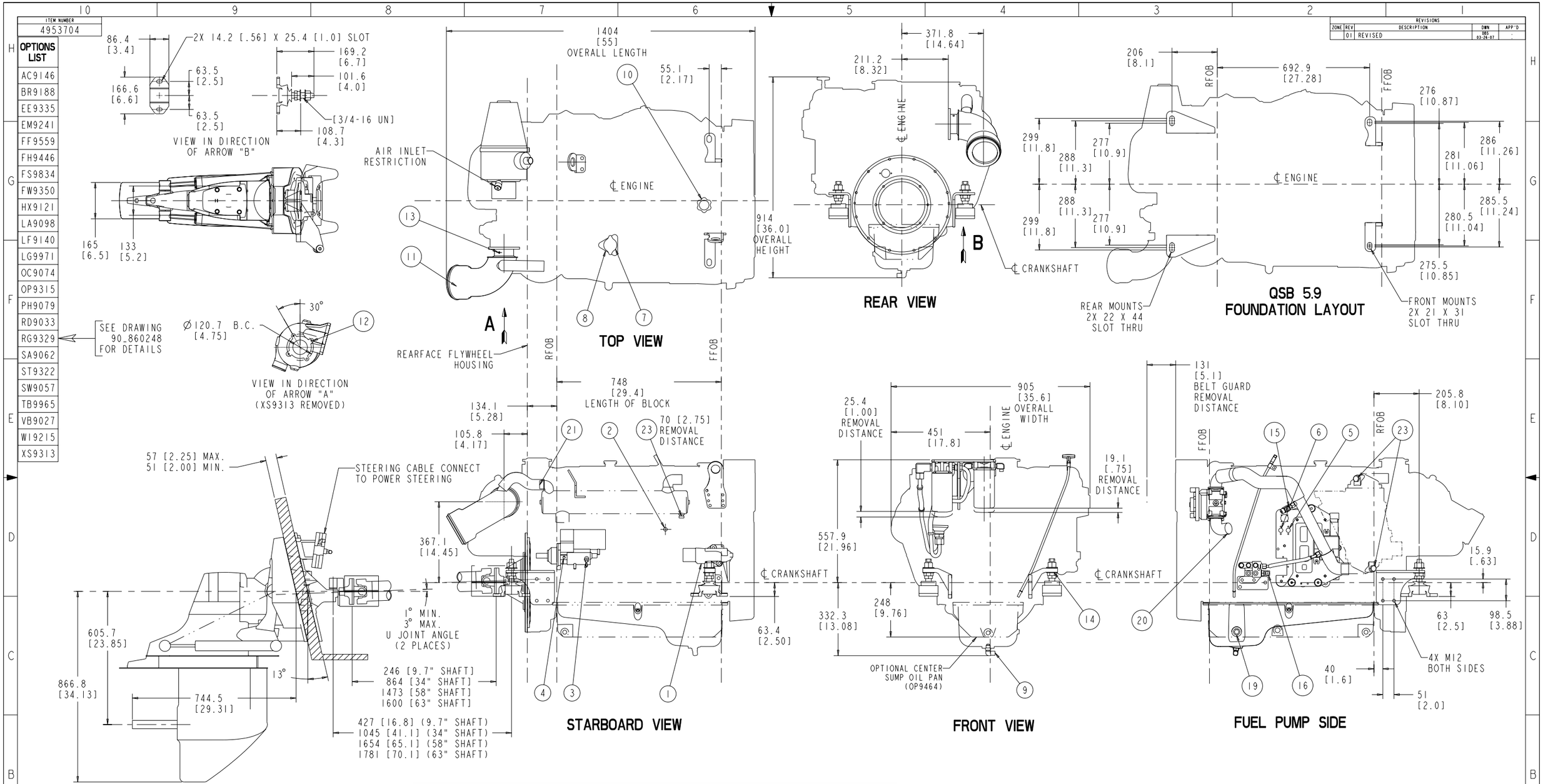
ITEM NUMBER
4953704

OPTIONS LIST
AC9146
BR9188
EE9335
EM9241
FF9559
FH9446
FS9834
FW9350
HX9121
LA9098
LF9140
LG9971
OC9074
OP9315
PH9079
RD9033
RG9329
SA9062
ST9322
SW9057
TB9965
VB9027
WI9215
XS9313

REVISIONS				
ZONE	REV	DESCRIPTION	DWN	APP'D
	01	REVISED	DBS 03-26-07	



ENGINE SERVICE TEST PORTS/INSTALLATION CONNECTIONS

1	AUXILIARY HEATER RETURN:	3/4 NPT
2	AUXILIARY HEATER SUPPLY:	3/4 NPT
3	BATTERY CONNECTION (STARTER) (+):	M10 X 1.5
4	BATTERY CONNECTION (STARTER) (-):	M10 X 1.5
5	BATTERY CONNECTION (ECM) (+):	1/4-20 NPT
6	BATTERY CONNECTION (ECM) (-):	1/4-20 NPT
7	COOLANT FILL:	Ø34.7 [1.36]
8	COOLANT RECOVERY/OVERFLOW CONNECTION:	Ø9.6 [.38]
9	ENGINE OIL DRAIN:	3/4-16 NPT
10	ENGINE OIL FILL:	Ø29.5 [1.16]
11	EXHAUST OUTLET CONNECTION (ELBOW):	Ø152.4 [6.00] O.D.
12	EXHAUST OUTLET CONNECTION (TURBO):	4X M8 X 1.25
13	EXHAUST TEMPERATURE/BACK PRESSURE:	1/8-27 NPT
14	FRONT ENGINE SUPPORT:	2X 21 [.83] X 31 [1.22] SLOT
15	FUEL RETURN TO TANK CONNECTION:	3/8-18 NPT
16	FUEL INLET CONNECTION:	3/4-16 UN, 37° FLARE
17	GEAR OIL COOLER DRAIN:	N/A
18	GEAR OIL COOLER INLET AND OUTLET:	N/A
19	OIL HEATER CONNECTION:	M22 X 1.5
20	SEA WATER INLET:	Ø50.8 [2.00] O.D.
21	SEA WATER OUTLET:	Ø38.1 [1.50] O.D.
22	SHAFT LOG SEA WATER SUPPLY:	N/A
23	ZINC ANODE:	3X 1/2 NPT

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T 1 ARE IN: INCHES

CUMMINS INC.

ITEM NAME: QSB 5.9-BRAVO II
IDENTIFIER: INSTALLATION DIAGRAM

DWN	TMOLFGANG	12-02-05	SIZE J	CODE IDENT. NO.	ITEM NUMBER 4953704
CHD	UNCHECKED				
APPD					
APPD			SCALE: N/A	ITEM CONTROL: MCS	SHEET 1 OF 1