

QSX15G G-DRIVE ENGINE PRODUCT SUMMARY

March, 2000

Model Name	Configuration #	Application	Max Gross BHP	
			1500 rpm	1800 rpm
QSX15-G4	D103003GX03	Standby	545	625
		Prime	490	565
		Continuous	345	395
QSX15-G5	D103003GX03	Standby	-	610
		Prime	-	555
		Continuous	-	390
QSX15-G6	D103003GX03	Standby	615	650
		Prime	555	585
		Continuous	390	410
QSX15-G7	D103003GX03	Standby	-	685
		Prime	-	620
		Continuous	-	435
QSX15-G8	D103003GX03	Standby	670	650
		Prime	605	585
		Continuous	425	410
QSX15-G9	D103003GX03	Standby	-	755
		Prime	-	680
		Continuous	-	475

AP-Keydata

Option #	Agency	Tier Level	Notes
AP 1031	Certified by EPA, CARB	Tier 1	
AP 1037	Non-certified	Cert. level: none	
AP 1048	Certified by EC Directives		This machinery directive covers all generating plant and stationary power units shipped into greater Europe.

AP 1031

AP — Agency Approval

Revision Date: 3/00

(No Graphics Required)

Option #	Agency	Tier Level	Notes
AP 1031	Certified by EPA, CARB	Tier 1	

Certified by: EPA, CARB

Application: G-drive

Certification level: Tier 1

Centinel: No

AP 1037

AP — Agency Approval

Revision Date: 3/00

(No Graphics Required)

Option #	Agency	Tier Level	Notes
AP 1037	Non-certified	Cert. level: none	

Certified by: Non-certified

Application: G-drive

Certification level: None

Centinel: No

AP 1048

AP — Agency Approval

Revision Date: 03/00

(No Graphics Required)

Option #	Agency	Tier Level	Notes
AP 1048	Certified by EC Directives		This machinery directive covers all generating plant and stationary power units shipped into greater Europe.

Certified by: EC Directives

Application: G-Drive

Note: This machinery directive covers all generating plant and stationary power units shipped into greater Europe.

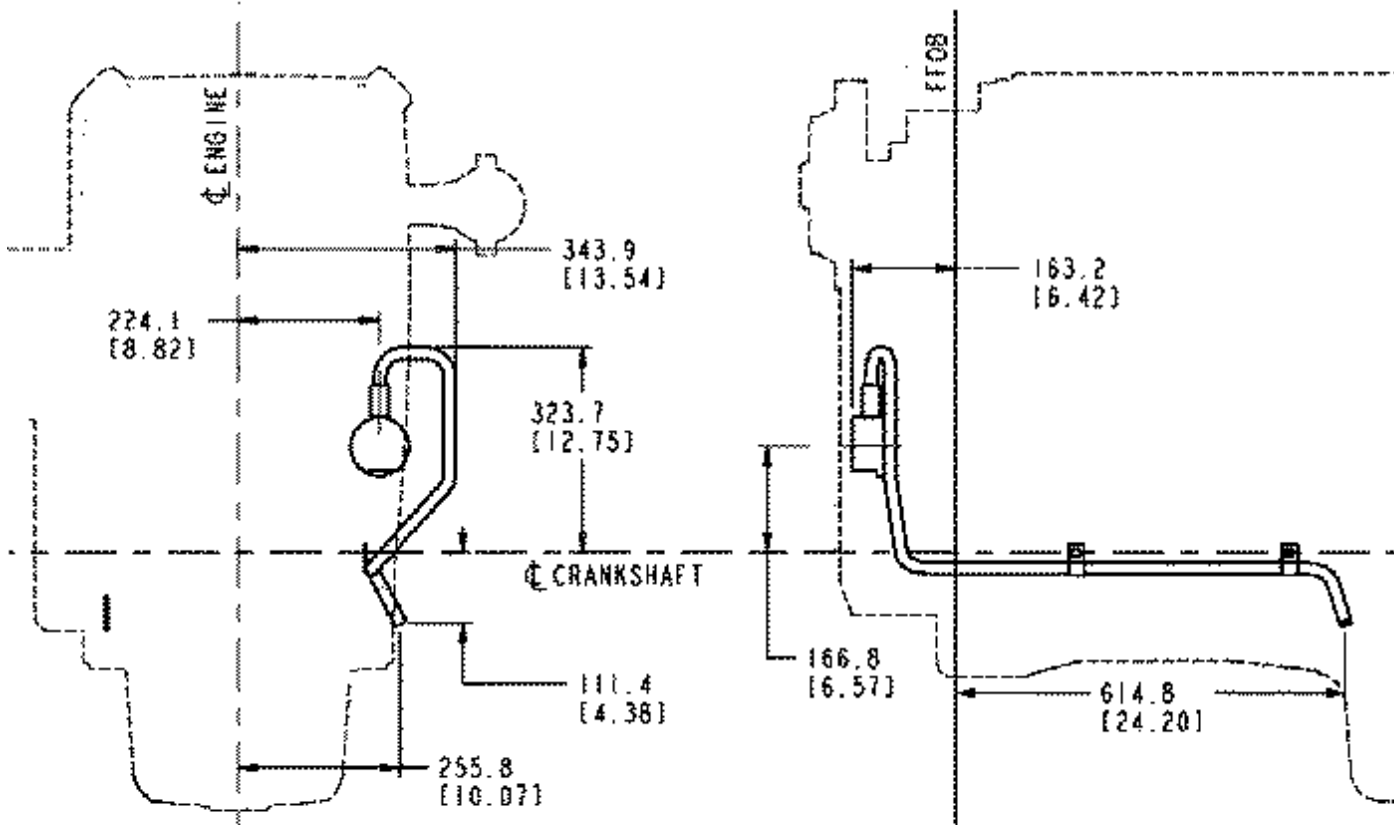
BR-Keydata

Option #	Mounting Location	Notes
BR 1236	Front lower cover of gear housing left side of engine	No oil fill is provided in this option

BR 1236

BR — Crankcase Breather

Revision Date: 3/00



BR1236_MCS

Option #	Mounting Location	Notes
BR 1236	Front lower cover of gear housing left side of engine	No oil fill is provided in this option

Provides a crankcase breather located on the front lower cover of gear housing left side of engine.

Approximate coordinate location from horizontal C/L of crankshaft: 166 mm

From vertical C/L of crankshaft: 224 mm

From FFOB: 166 mm

Option is used when engine barring device oil fill tube is specified. Option includes all seals, tubing and hardware for crankcase breather and cover plate for right side rear oil fill. No oil fill is provided in this option.

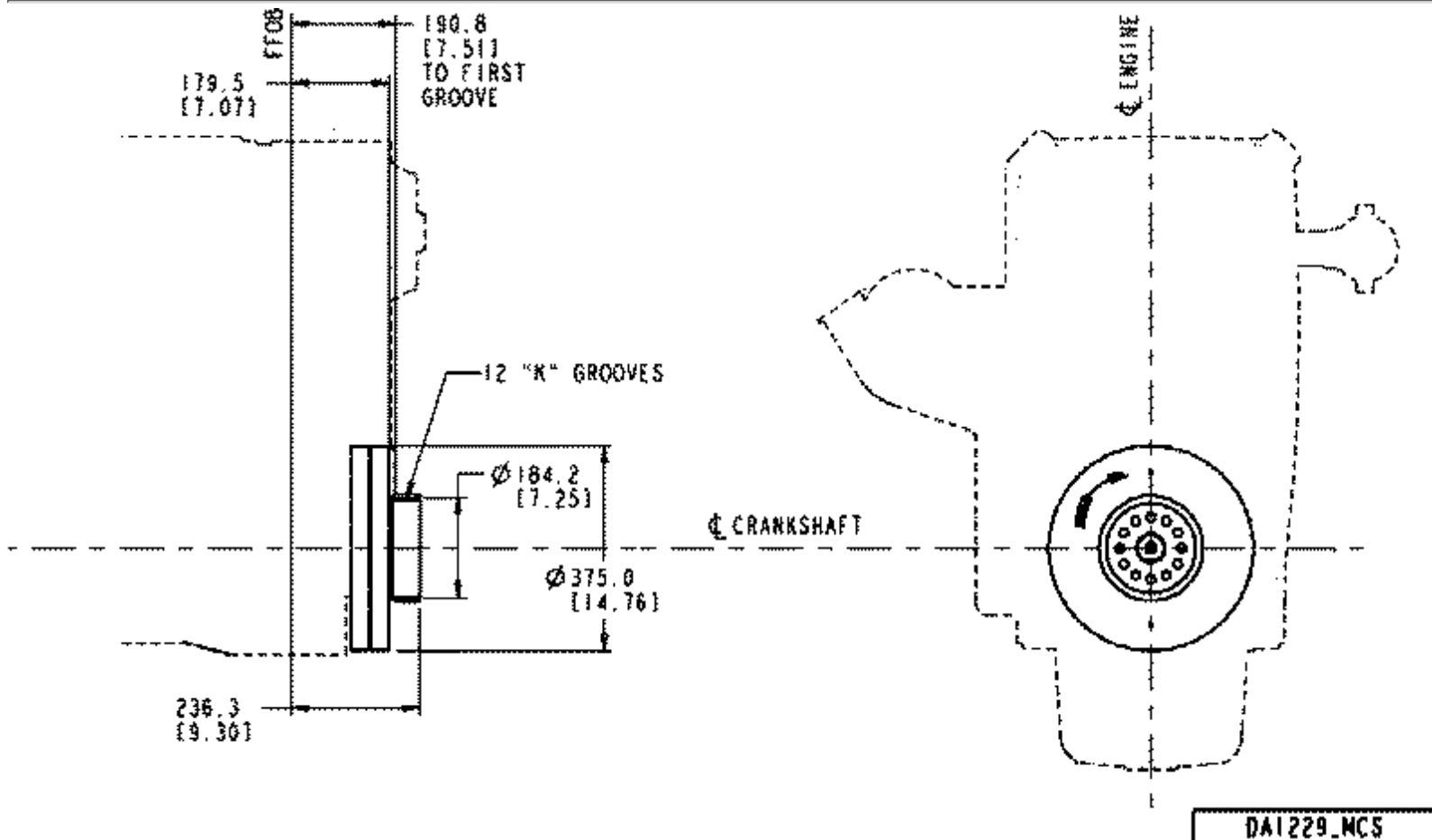
DA-Keydata

Option #	Type/Dia	Add'l Drive Pulleys	PTO Provision	Engine Rated Speed
DA 1229	Dual/ 186.23 mm [7.33 in.]	No	No	2100 rpm

DA 1229

DA — Vibration Damper

Revision Date: 10/00



DA1229_MCS

Option #	Type/Dia	Add'l Drive Pulleys	PTO Provision	Engine Rated Speed
DA 1229	Dual/ 186.23 mm [7.33 in.]	No	No	2100 rpm

Intended Drive: Belt driven fan or off engine customer driven fan.

Includes two viscous vibration dampers and crankshaft pulley with no front PTO provision.

Crank pulley diameter: 186.23 mm [7.33 in.]

Crank pulley groove type: Poly V 12 rib "K"

Crank pulley groove location: 190.95 mm [7.51 in.]

Vibration Damper Quantity: Two

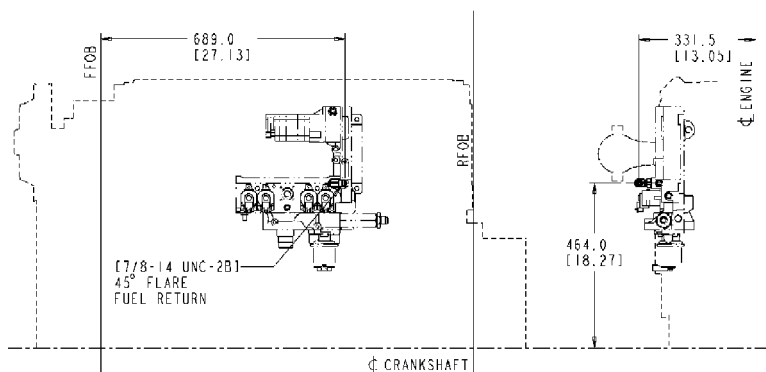
50 hp maximum

DL-Keydata

Option #	Plumbing for	Attachment Location	Attachment Size	Notes
DL 1047	Fuel Return	Engine Left Center	7/8 — 14 UNF 45 deg. seat	For Overhead Fuel Tank

DL - Drain Location

DL1047



DL1047_MCS

DL1047 [G]

Option #	Plumbing for	Attachment Location	Attachment Size	Notes
DL 1047	Fuel Return	Above Engine Fuel Inlet	7/8 - 14 UNF 45 deg. seat	For Overhead Fuel Tank

For overhead fuel tank, i.e., maximum fuel level is above engine fuel inlet.

DO-Keydata

Option #	Use With	Rating (kW [BHP] @ rpm)	Calibration
DO 1103	ECM Provided		TBD

DO 1103

DO — Customer Interface Software

Revision Date: 8/00

(No Graphics Required)

Option #	Use With	Rating (kW [BHP] @ rpm)	Calibration
DO 1103	ECM Provided		TBD

Engine Control System: DOX
ECM Version: DC1004
Commun Support: RS232, RS485
OEM Name: N/A
OEM Model: N/A
OEM Application: G-Drive
Remote Throttle: No
High Idle: TBD
Low Idle: 500–800 rpm
ISC Enable: TBD
ISC Validation: TBD
Switched Speed Input: Yes
Torque Curve Selection: No
ASG or Min/Mix: ASG
Governor Droop: 0
Idle Validation: No
Multiple Unit Synchronization: No
Output Driver Setup: TBD
Calibration Voltage: TBD
Throttle Type: TBD

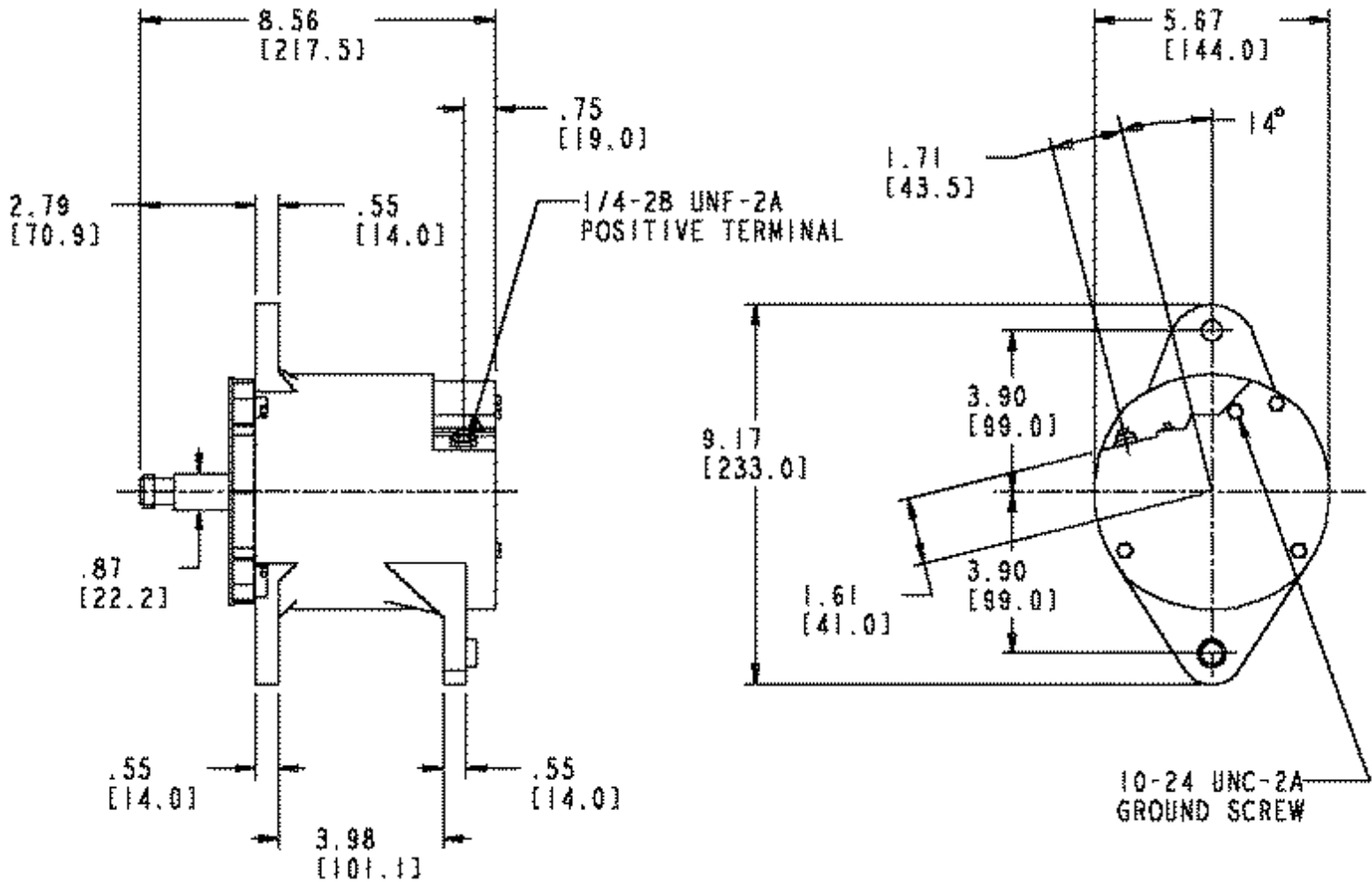
EE-Keydata

Option #	Manufacturer/ Model	Voltage/ Amps	Notes
EE 1211	Delco-Remy/ 20 SI-300	24V/35A	Length: 160 mm (6.3 in.)

EE 1211

EE - Alternator

Revision Date: 05/00



Option #	Manufacturer/ Model	Voltage/ Amps	Notes
EE 1211	Delco-Remy/ 20 SI-300	24V/35A	Length: 160 mm (6.3 in.)

Grounding method: Negative
 Insulation provisions: No
 Sealing Provisions: No
 Built-in voltage regulator: Yes
 Ground wire supplier: Customer
 Unique characteristics: None
 Charging System: Standard
 Battery Terminal: 1/4 — 28
 R Terminal: Pin

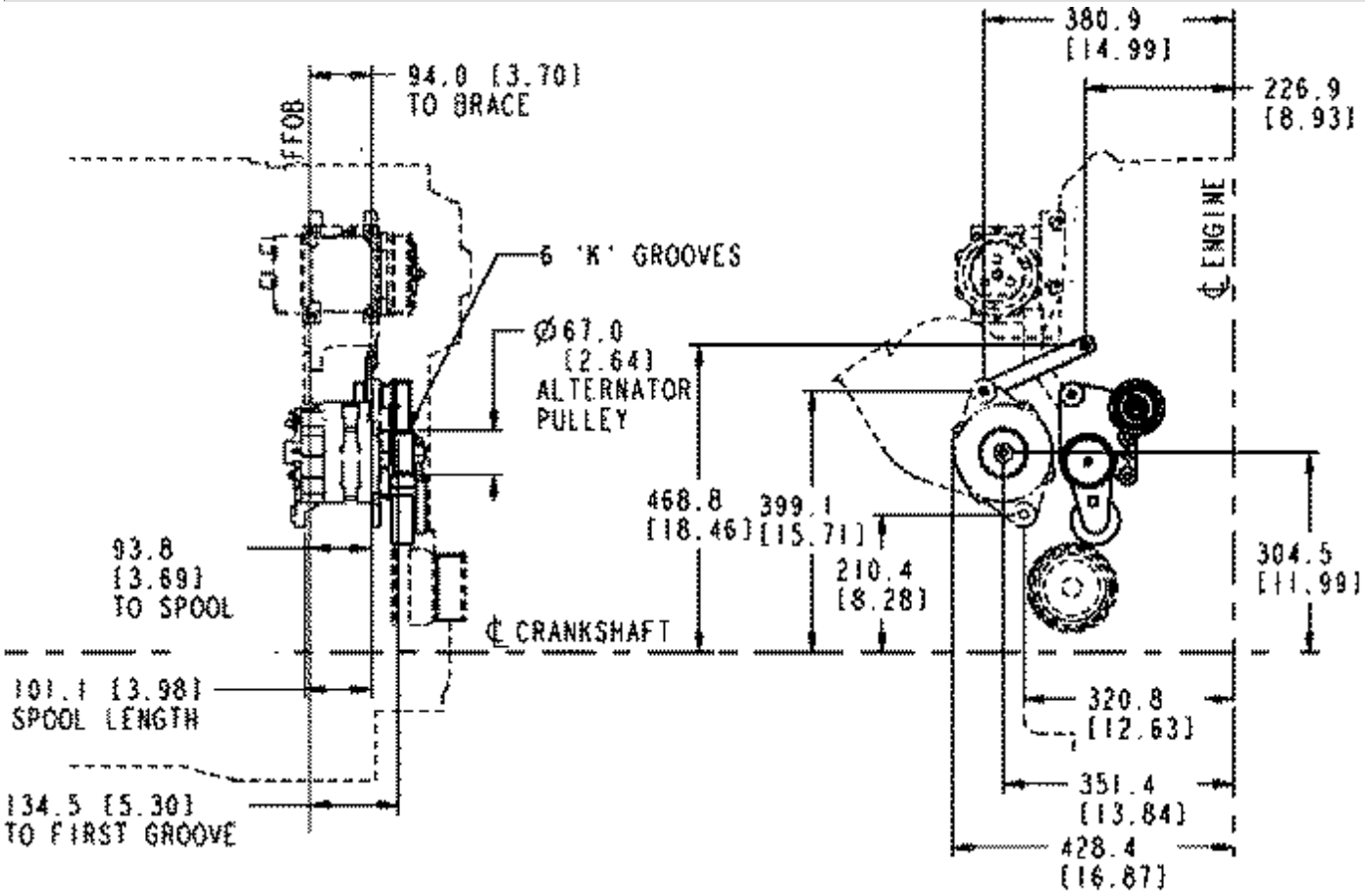
EH-Keydata

Option #	Use With	Mount Type	Drive Ratio	Notes
EH 1099	Single Delco-Remy or Bosch N1 Alternator	101.6 mm [4.0 in.] spool on bracket	3.06:1	With or without refrigerant compressor

EH 1099

EH — Alternator Mounting

Revision Date: 08/00



EH1083_MCS

Option #	Use With	Mount Type	Drive Ratio	Notes
EH 1099	Single Delco-Remy or Bosch N1 Alternator	101.6 mm [4.0 in.] spool on bracket	3.06:1	With or without refrigerant compressor

Single alternator
 Location: Right side
 FFOB: 132.75 mm [5.226 in.] to first groove
 Alternator attachment point: water pump hsg.
 Belt description: 6 groove poly vee
 Adjusting link included: Yes
 Drive: Water pump pulley
 Crank or Engine Mounted Fans

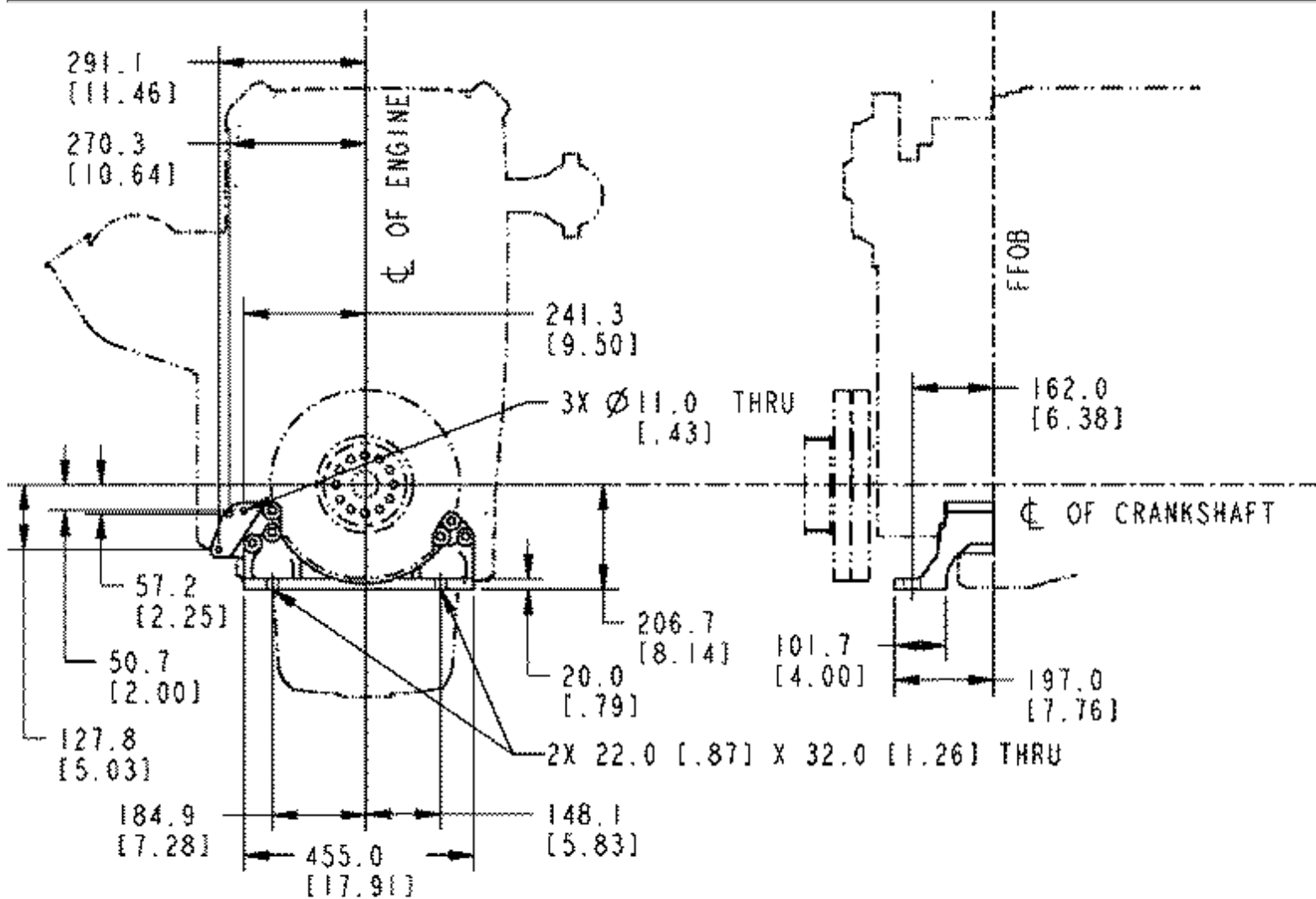
EM-Keydata

Option #	Type	Attachment Hole	Damper	Notes
EM 1343	Vertical standard	Two Hole	Yes	—

EM 1343

EM — Front Engine Support

Revision Date: 01/00



EM1343.MCS

Option #	Type	Attachment Hole	Damper	Notes
EM 1343	Vertical standard	Two Hole	Yes	—

Material: Ductile cast iron

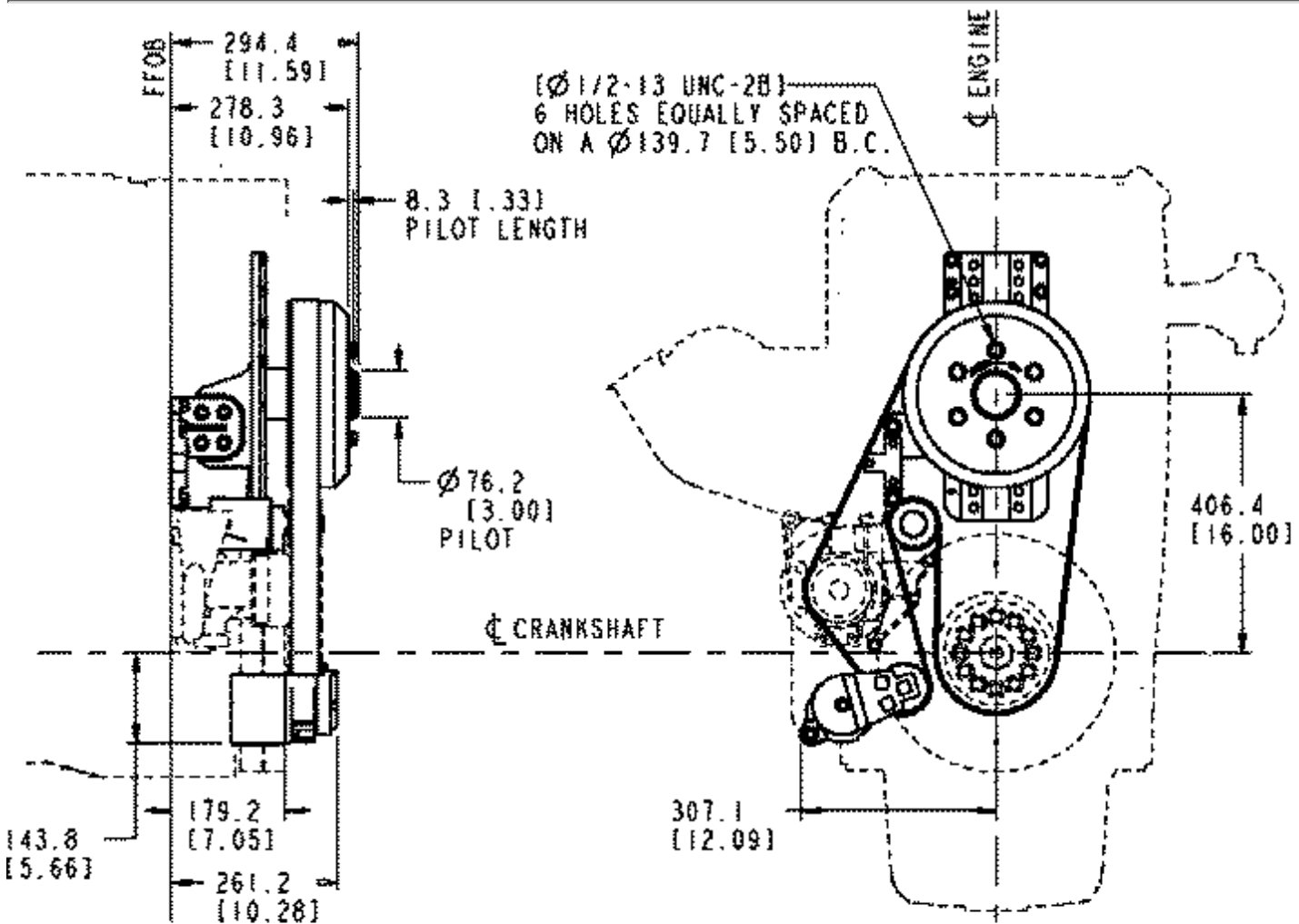
FA-Keydata

Option #	Bolt Circle mm	Drive Ratio	Fan Center mm	Off Set mm
FA 1466	139.7 mm [5.5 in.]	0.65:1	406.4 mm [16.00 in.]	Automatic
FA 1467	139.7 mm [5.5 in.]	0.75:1	406.4 mm [16.00 in.]	Automatic

FA 1466

FA — Fan Drive

Revision Date: 10/00



FA1466.MCS

Option #	Bolt Circle mm	Drive Ratio	Fan Center mm	Off Set mm
FA 1466	139.7 mm [5.5 in.]	0.65:1	406.4 mm [16.00 in.]	Automatic

Fan Drive: Cummins supplied.

Fan center location: 406.4 mm [16.0 in.]

Fan drive ratio: .65:1

Fan center style: Fixed driven from crankshaft

Fan hub pilot diameter: 76.2 mm [3.0 in.]

Pulley groove type: Poly V 12 Rib "K"

Fan pulley diameter: 340.258 mm [13.40 in.]

Fan drive groove location: 190.95 mm [7.52 in.] FFOB to first groove

Belt Tensioning method: Automatic

Fan bracket mounting location: Front of head/block

Fan mounting surface location: 263.04 mm [10.36 in.] FFOB to fan mounting surface

Maximum torque capability: 200 N•m [150 lb-ft]

FA 1466

Maximum fan inertia: 2.82 N•m-Sec 2 [25 in-lb-sec²]

Maximum bending moment: 62.2 N•m [550 in-lb]

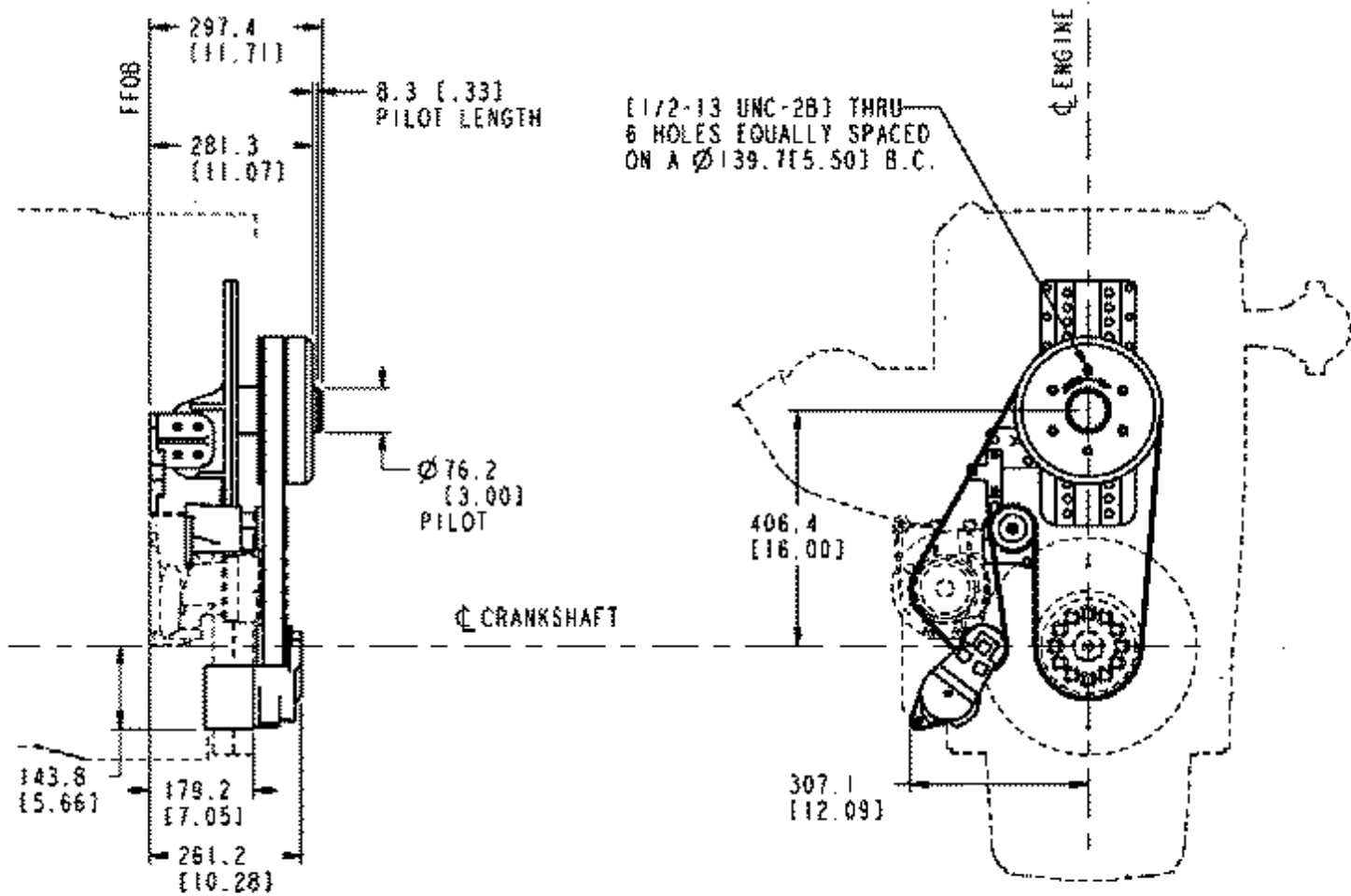
Maximum fan weight: 49.9 kg [110 lb]

Maximum fan spacer thickness: 127 mm [5 in.]

FA 1467

FA — Fan Drive

Revision Date: 10/00



FA1467_MCS

Option #	Bolt Circle mm	Drive Ratio	Fan Center mm	Tensioner Type
FA 1467	139.7 mm [5.5 in.]	0.75:1	406.4 mm [16.00 in.]	Automatic

Fan Drive: Cummins supplied.

Fan center location: 406.4 mm [16.0 in.]

Fan drive ratio: .75:1

Fan center style: Fixed driven from crankshaft

Fan hub pilot diameter: 76.2 mm [3.0 in.]

Pulley groove type: Poly V 12 Rib "K"

Fan pulley diameter: 340.258 mm [13.40 in.]

Fan drive groove location: 190.95 mm [7.52 in.] FFOB to first groove

Belt Tensioning method: Automatic

Fan bracket mounting location: Front of head/block

Fan mounting surface location: 263.04 mm [10.36 in.] FFOB to fan mounting surface

Maximum torque capability: 200 N•m [150 lb-ft]

Maximum fan inertia: 2.26 N•m-Sec² [20 in-lb-sec²]

Maximum bending moment: 62.2 N•m [550 in-lb]

FA 1467

Maximum fan weight: 49.9 kg [110 lb]

Maximum fan spacer thickness: 127 mm [5 in.]

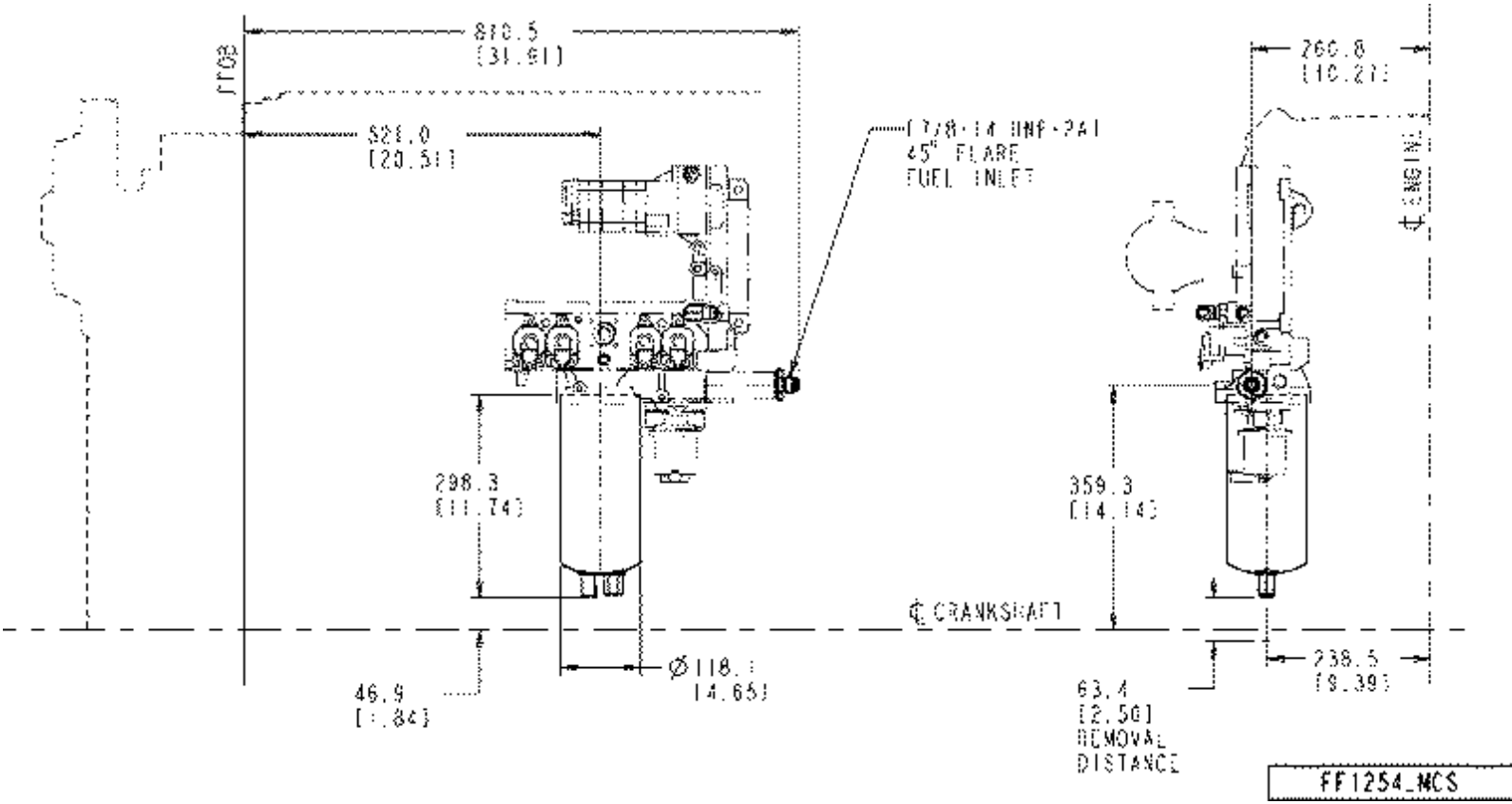
FF-Keydata

Option #	Element	Filtration	Water Separator/WIF Sensor	Location/Notes
FF 1254	Single	25 Micron	Yes/Yes	Engine Direct Mount

FF 1254

FF - Fuel Filter

Revision Date: 06/01



FF1254_MCS

Option #	Element	Filtration	Water Separator/WIF Sensor	Location/Notes
FF 1254	Single	25 Micron	Yes/Yes	Engine Direct Mount

Water in fuel sensor: Yes
 Fuel Filter Type: Water separator with drain
 Fuel Filter Mounting: Fuel pump mounted

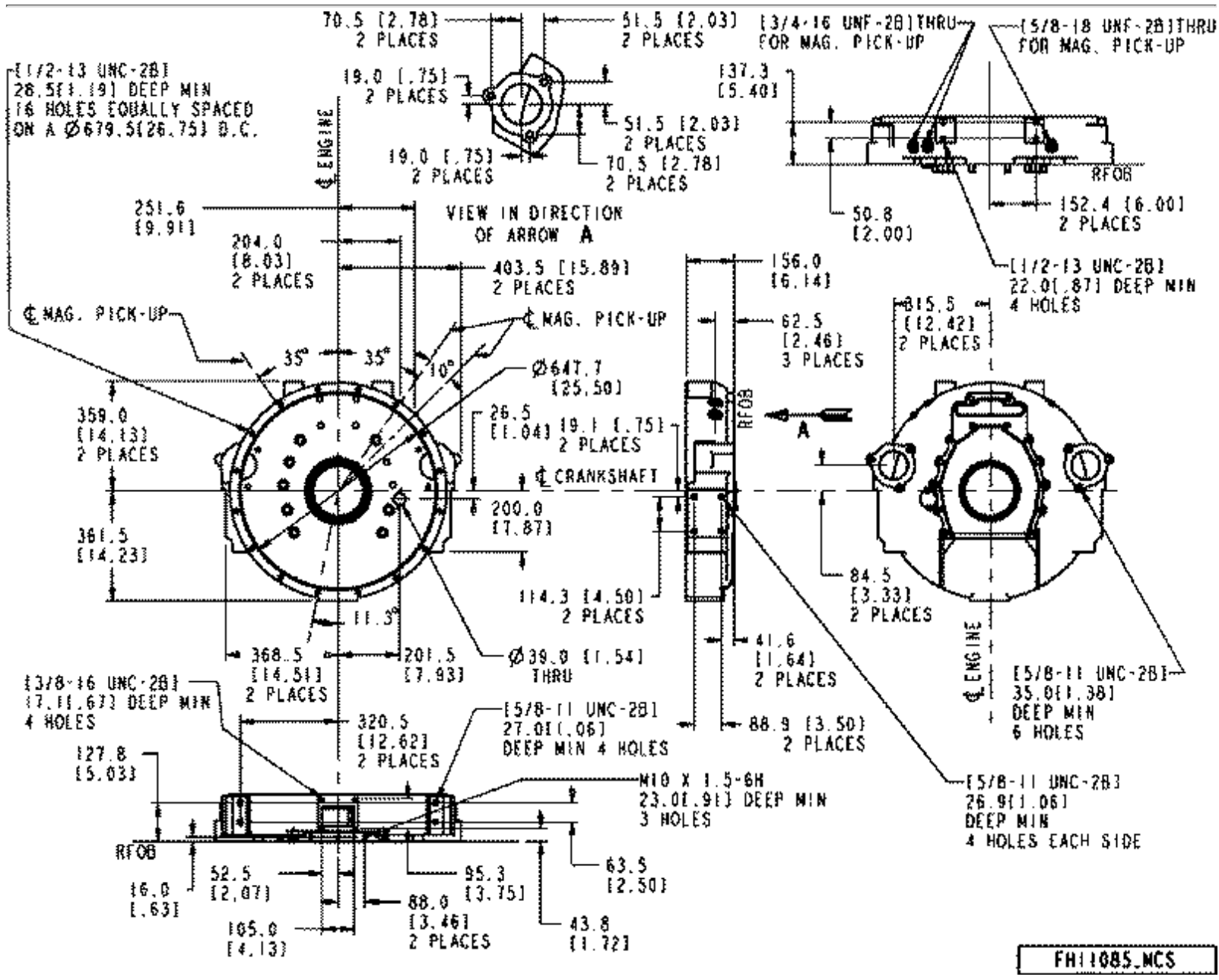
FH-Keydata

Option #	SAE/ Wet or Dry	Application	Housing Material	Starter Quadrant
FH 11085	No. 0/ Dry	Starter dist.: 326.62 mm [12.859in.]	Cast Iron	1 or 4
FH 11089	No. 1/ Dry	Starter dist.: 275.69 mm [10.854 in.]	Cast Iron	2 or 3

FH 11085

FH — Flywheel Housing

Revision Date: 08/00



FH11085_MCS

Option #	SAE/ Wet or Dry	Application	Housing Material	Starter Quadrant
FH 11085	No. 0/ Dry	Starter dist.: 326.62 mm [12.859in.]	Cast Iron	1 or 4

Flywheel Housing Material: Cast Iron
 Engine Mount Type: Vertical Pads
 Transmission Mounting Hole Nomenclature: SAE
 Starting Motor Mounting Screws: SAE
 Starter Center Distance: 326.62 mm (12.859 in.)
 Clutch Type Provision: Dry
 Sensor Mounting Hole Nomenclature: Quad 3, 3/4 — 16;

FH 11085

Quad 3, 3/4 — 16; Quad 2, 5/8 — 20; Rear Gear Drive: No

Transmission Mtg Face to RFOB: 155.25 mm (6.112 in.)

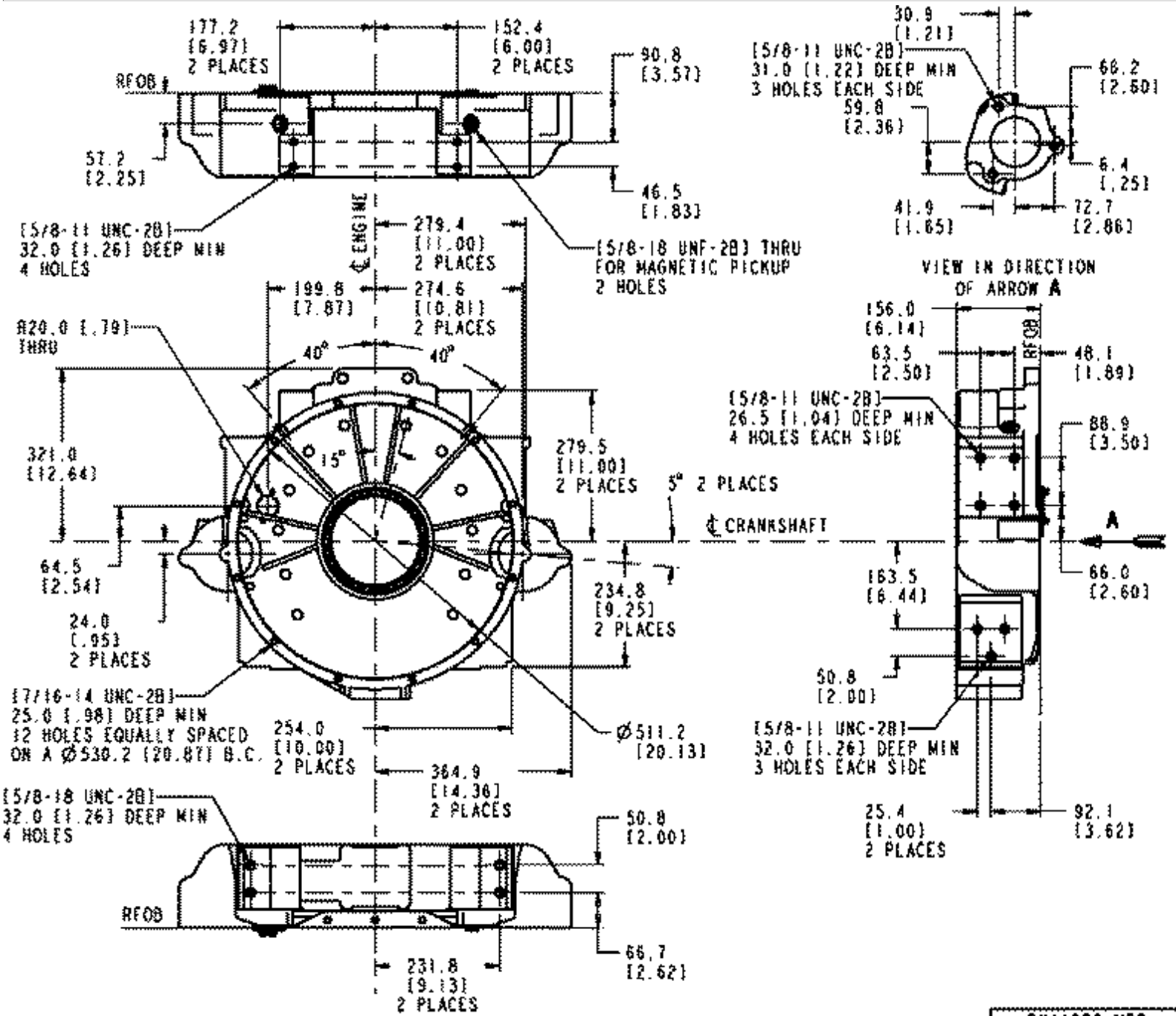
Starter Location: 1st Quadrant and 4th Quadrant

Sensor Mounting Hole Count: Three

FH 11089

FH — Flywheel Housing

Revision Date: 11/00



FH11089.MCS

Option #	SAE/ Wet or Dry	Application	Housing Material	Starter Quadrant
FH 11089	No. 1/ Dry	Starter dist.: 275.69 mm [10.854 in.]	Cast Iron	2 or 3

Flywheel Housing SAE Size or Type: 1
 Flywheel Housing Material: Cast Iron
 Engine Mount Type: High and Low Vertical Pads

Transmission Mounting Hole Nomenclature: SAE

Starting Motor Mounting Screws: SAE

Starter Center Distance: 275.59 mm (10.85 in.)

Clutch Type Provision: Dry

Sensor Mounting Hole Nomenclature: Quad 1, 3/4 — 16; Quad 4, 5/8 — 20; Rear Gear Drive: No

Transmission Mtg Face to RFOB: 155.25 mm (6.112 in.)

Starter Location: 2nd Quadrant and 3rd Quadrant

Sensor Mounting Hole Count: Two

FR-Keydata

Option #	Standby HP	Prime HP	Ltd. Prime HP	Inter/Continuous
FR 10298	545	490	490	345
FR 10300	615	555	555	390
FR 10302	670	605	605	425
FR 10349	755	680	680	475
FR 10350	610	555	555	390
FR 10351	685	620	620	435

FR 10298

FR — Fuel Rating

Revision Date: 3/00

(No Graphics Required)

Option #	Standby HP	Prime HP	Ltd. Prime HP	Inter/Continuous
FR 10298	545	490	490	345

Advertised Power: N/A

Rated Horsepower: N/A

Maximum Horsepower: N/A

Torque Peak: N/A

Governed Power: 553 PS [545 BHP] @ 1500 rpm

Governed Torque: 2587 N•m [1908 ft-lb]

High Idle: TBD

Low Idle: 500–800 rpm

Rated Speed: 1500 rpm

Engine Control System: DOX

CPL: 2816, 2962

Certified by: Non-Certified

Application: Power Generation

Certification Level: None

FR 10300

FR — Fuel Rating

Revision Date: 3/00

(No Graphics Required)

Option #	Standby HP	Prime HP	Ltd. Prime HP	Inter/Continuous
FR 10300	615	555	555	390

Advertised Power: N/A

Rated Horsepower: N/A

Maximum Horsepower: N/A

Torque Peak: N/A

Governed Power: 624 PS [615 BHP] @ 1500 rpm

Governed Torque: 2920 N•m [2153 ft-lb]

High Idle: TBD

Low Idle: 500–800 rpm

Rated Speed: 1500 rpm

Engine Control System: DOX

CPL: 2816, 2962

Certified by: Non-Certified

Application: Power Generation

Certification Level: None

FR 10302

FR — Fuel Rating

Revision Date: 3/00

(No Graphics Required)

Option #	Standby HP	Prime HP	Ltd. Prime HP	Inter/Continuous
FR 10302	670	605	605	425

Advertised Power: N/A

Rated Horsepower: N/A

Maximum Horsepower: N/A

Torque Peak: N/A

Governed Power: 679 PS [670 BHP] @ 1500 rpm

Governed Torque: 3181 N•m [2346 ft-lb]

High Idle: TBD

Low Idle: 500–800 rpm

Rated Speed: 1500 rpm

Engine Control System: DOX

CPL: 2816, 2962

Certified by: Non-Certified

Application: Power Generation

Certification Level: None

FR 10349

FR — Fuel Rating

Revision Date: 3/00

(No Graphics Required)

Option #	Standby HP	Prime HP	Ltd. Prime HP	Inter/Continuous
FR 10349	755	680	680	475

Advertised Power: N/A

Rated Horsepower: N/A

Maximum Horsepower: N/A

Torque Peak: N/A

Governed Power: 765 PS [755 BHP] @ 1800 rpm

Governed Torque: 2987 N•m [2203 ft-lb]

High Idle: TBD

Low Idle: 500–800 rpm

Rated Speed: 1800 rpm

Engine Control System: DOX

CPL: 2900

Certified by: EPA, CARB

Application: Power Generation

Certification Level: Tier 1

FR 10350

FR — Fuel Rating

Revision Date: 3/00

(No Graphics Required)

Option #	Standby HP	Prime HP	Ltd. Prime HP	Inter/Continuous
FR 10350	610	555	555	390

Advertised Power: N/A

Rated Horsepower: N/A

Maximum Horsepower: N/A

Torque Peak: N/A

Governed Power: 619 PS [610 BHP] @ 1800 rpm

Governed Torque: 2414 N•m [1780 ft-lb]

High Idle: TBD

Low Idle: 500–800 rpm

Rated Speed: 1800 rpm

Engine Control System: DOX

CPL: 2900

Certified by: EPA, CARB

Application: Power Generation

Certification Level: Tier 1

FR 10351

FR — Fuel Rating

Revision Date: 3/00

(No Graphics Required)

Option #	Standby HP	Prime HP	Ltd. Prime HP	Inter/Continuous
FR 10351	685	620	620	435

Advertised Power: N/A

Rated Horsepower: N/A

Maximum Horsepower: N/A

Torque Peak: N/A

Governed Power: 695 PS [685 BHP] @ 1800 rpm

Governed Torque: 2710 N•m [1998 ft-lb]

High Idle: TBD

Low Idle: 500–800 rpm

Rated Speed: 1800 rpm

Engine Control System: DOX

CPL: 2900

Certified by: Non-Certified

Application: Power Generation

Certification Level: Tier 1

FW-Keydata

Option #	SAE	Pilot Bearing Bore Dia	Ring Gear Pitch/Teeth	Indicated Drive
FW 1022	No. 1	80.00 mm [3.15 in.]	6/8 — 118	Overcenter clutch
FW 1025	No. 0	80.00 mm [3.15 in.]	6/8 — 142	Overcenter clutch

QSX15G

FW - Flywheel

FW1022

The drawing shows a side view of the flywheel on the left and an end view on the right. Dimensions include diameters of 80.00, 292.1, and 355.6 mm. A table in the center provides material properties:

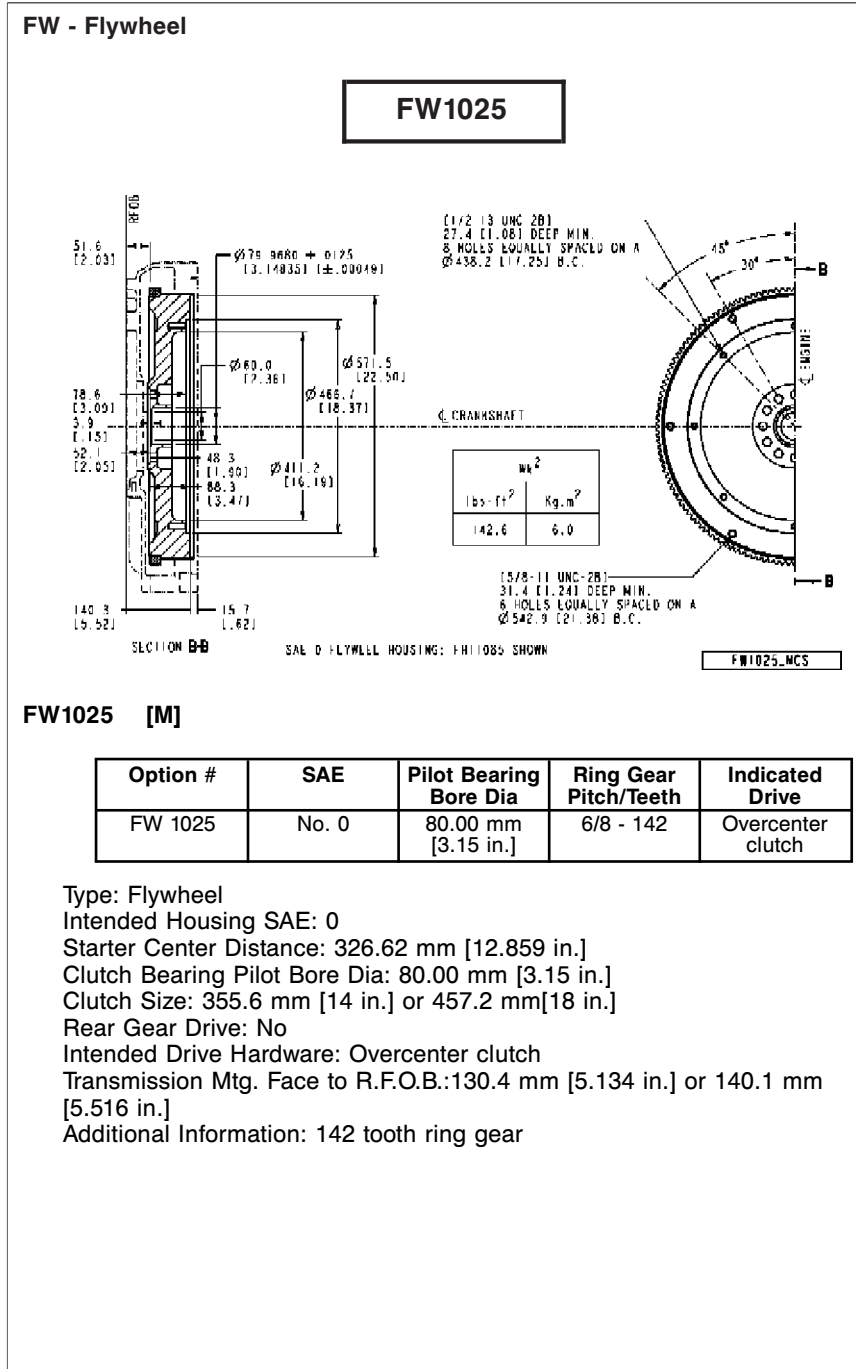
Material	
SAE	Kg m ³
1020	7.8

FW1022 [M]

Option #	SAE	Pilot Bearing Bore Dia	Ring Gear Pitch/Teeth	Indicated Drive
FW 1022	No. 1	80.00 mm [3.15 in.]	6/8 - 118	292.1 mm [11.5 in.] & 355.6 mm [14 in.]

Intended Housing SAE: 1
 Starter Center Distance: 275.6 mm [10.85 in.]
 Clutch Bearing Pilot Bore Dia: 80.00 mm [3.15 in.]
 Clutch Size: 292.1 mm [11.5 in.] & 355.6 mm [14 in.]
 Rear Gear Drive: No
 Intended Drive Hardware: Overcenter clutch
 Transmission Mtg. Face to RFOB: 110.0mm [4.3in.]; 130.4mm [5.134in.]
 Additional Information: 118 tooth ring gear 292.1 mm [11.5 in.] clutch is suitable to mount Lord LCD 5229-5 coupling.

QSX15G



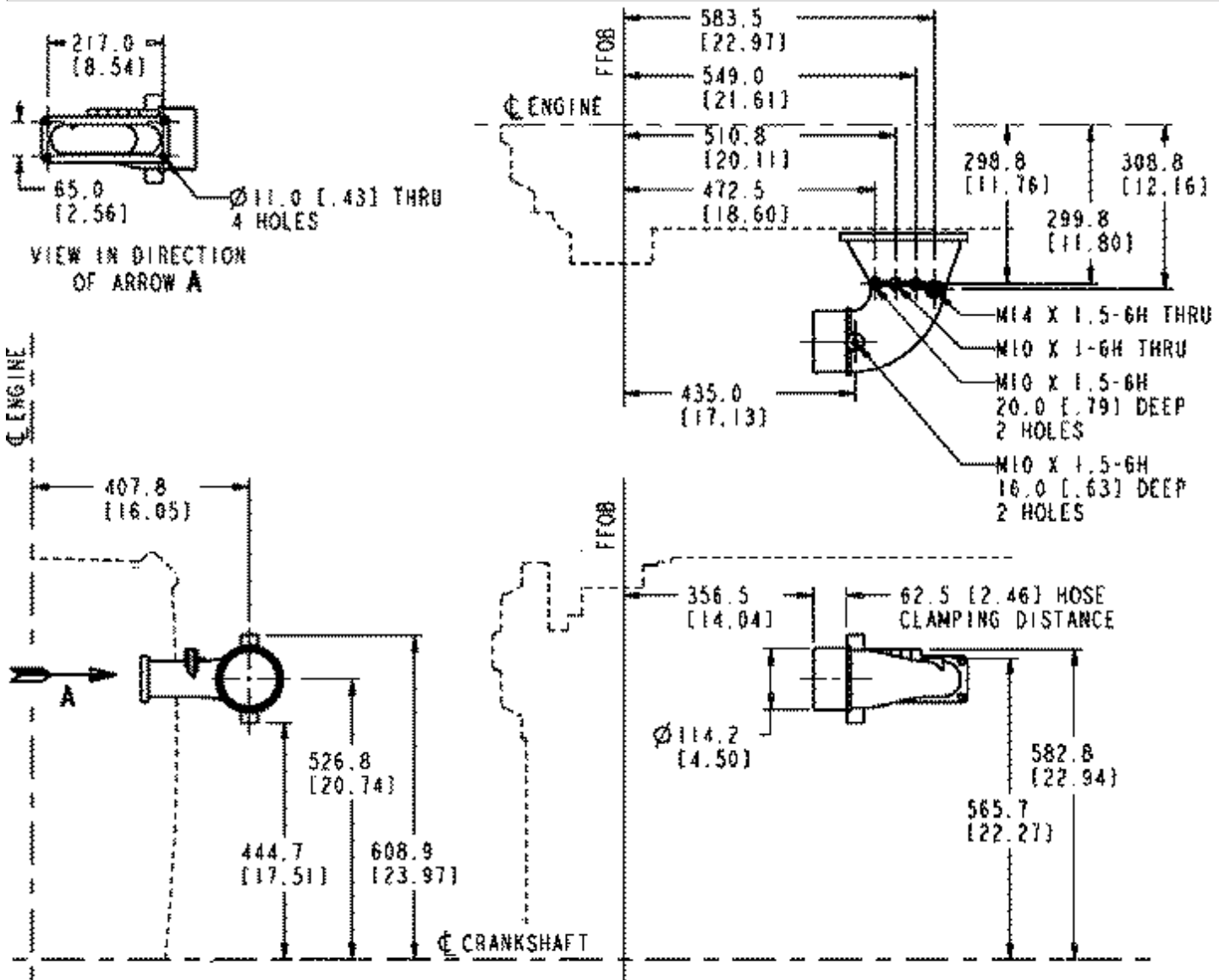
IC-Keydata

Option #	Description/Dia	Orientation/Location	Notes
IC 1064		90 deg. forward	4.5" diameter cuff

IC 1064

IC — Air Intake Connection

Revision Date: 8/00



IC1064_MCS

Option #	Description/Dia	Orientation/Location	Notes
IC 1064		90 deg. forward	4.5" diameter cuff

90 deg. forward
4.5" diameter cuff

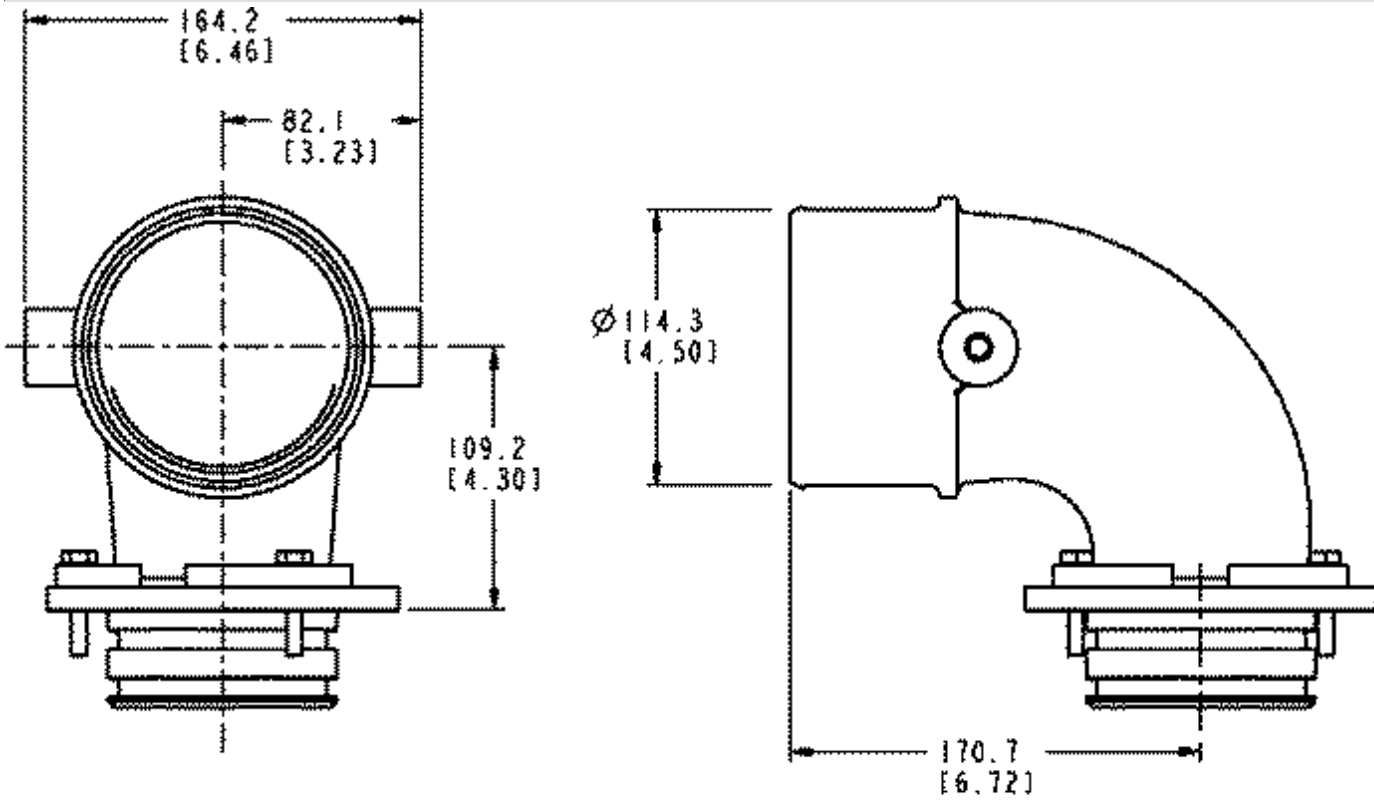
IT-Keydata

Option #	Description	Connection Angle	Connection O.D. Dia	Notes
IT 1022	Turbocharger compressor housing	90 deg.		Connection does not have pressure drop inspection hole

IT 1022

IT — Air Transfer Connection

Revision Date: 12/00



IT1022_MCS

Option #	Description	Connection Angle	Connection O.D. Dia	Notes
IT 1022	Turbocharger compressor housing	90 deg.		Connection does not have pressure drop inspection hole

For high output ratings.

90 deg. air outlet connection at the turbocharger compressor housing. Connection does not have pressure drop inspection hole.

Option includes parts to mount and seal the connection to the turbocharger.

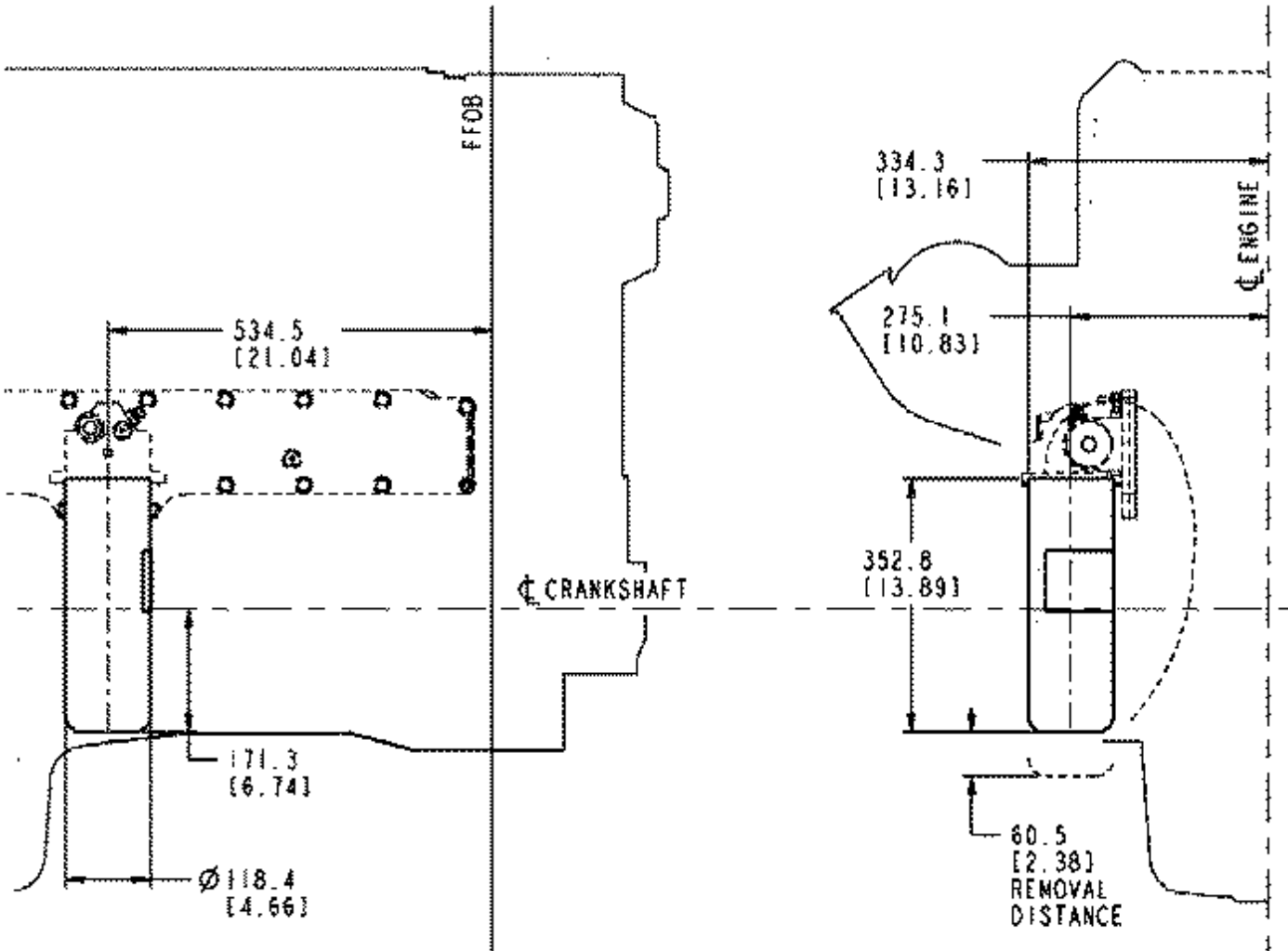
LF-Keydata

Option #	Type	Hose Length	Location	Notes
LF 1210	LF 9000 Combo	N/A	Engine Direct Mount	—

LF 1210

LF — Full Flow Oil Filter

Revision Date: 08/00



LF1210.MCS

Option #	Type	Hose Length	Location	Notes
LF 1210	LF 9000 Combo	N/A	Engine Direct Mount	—

One combo spin-on element
 Mounted to the lube cooler
 Capacity: 3.8 L [1 gal.]

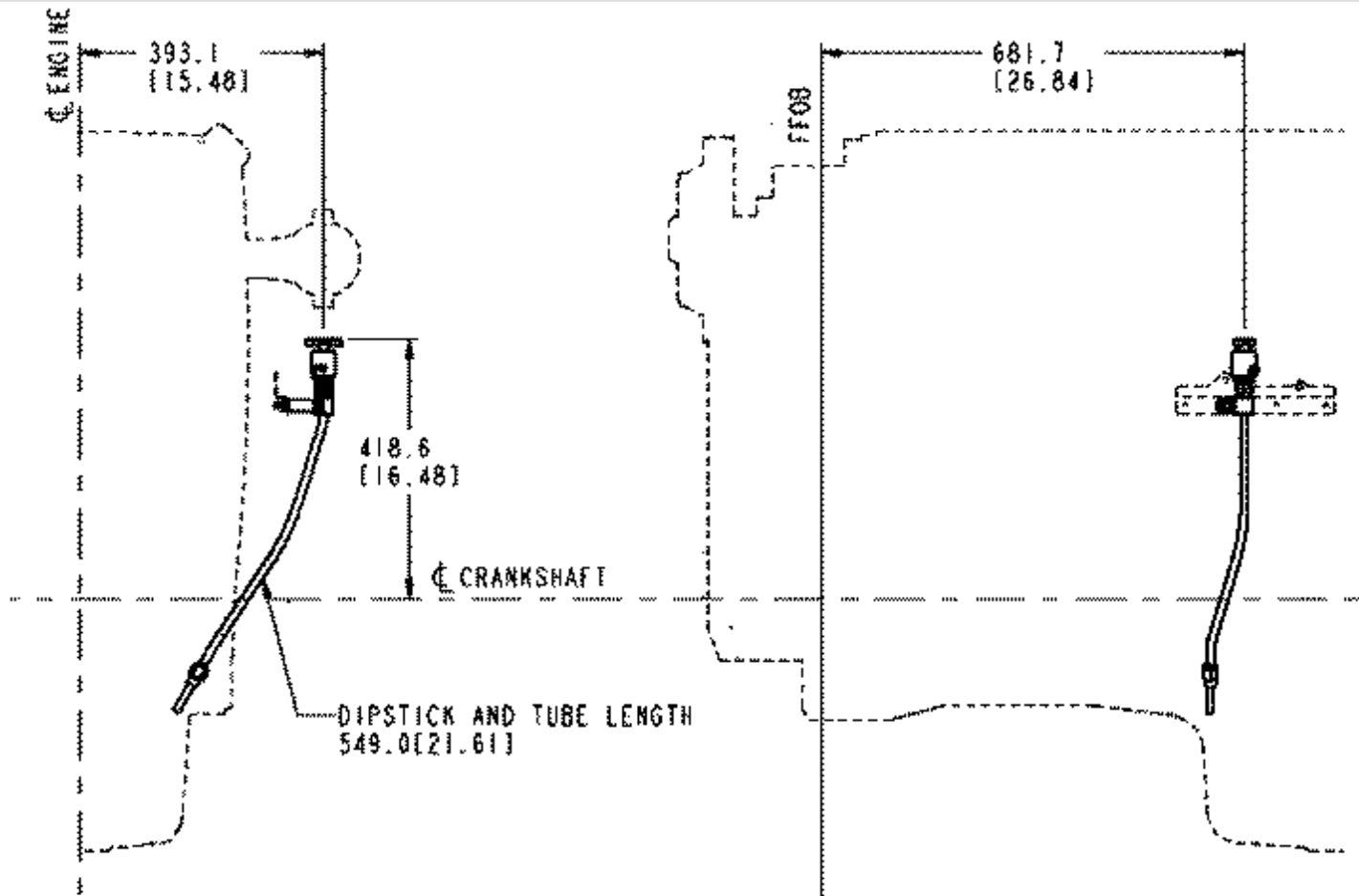
LG-Keydata

Option #	Handle Orientation	Location of Entry into Oil Pan	Use With	Power Angle
LG 1088	—	Intake side of engine to the rear	Full sump oil pan	0 deg.
LG 1089		Gauge located on exhaust side of engine to the rear.	Full sump oil pan	0 deg.
LG 1090	—	Intake side of engine to the rear	Full sump oil pan	0 deg.
LG 1091	—	Intake side of engine to the front	Full sump oil pan	0 deg.
LG 1092	—	Exhaust side of engine to the front	Full sump oil pan	0 deg.

LG 1088

LG — Oil Level Gauge

Revision Date: 03/00



LG1035.MCS

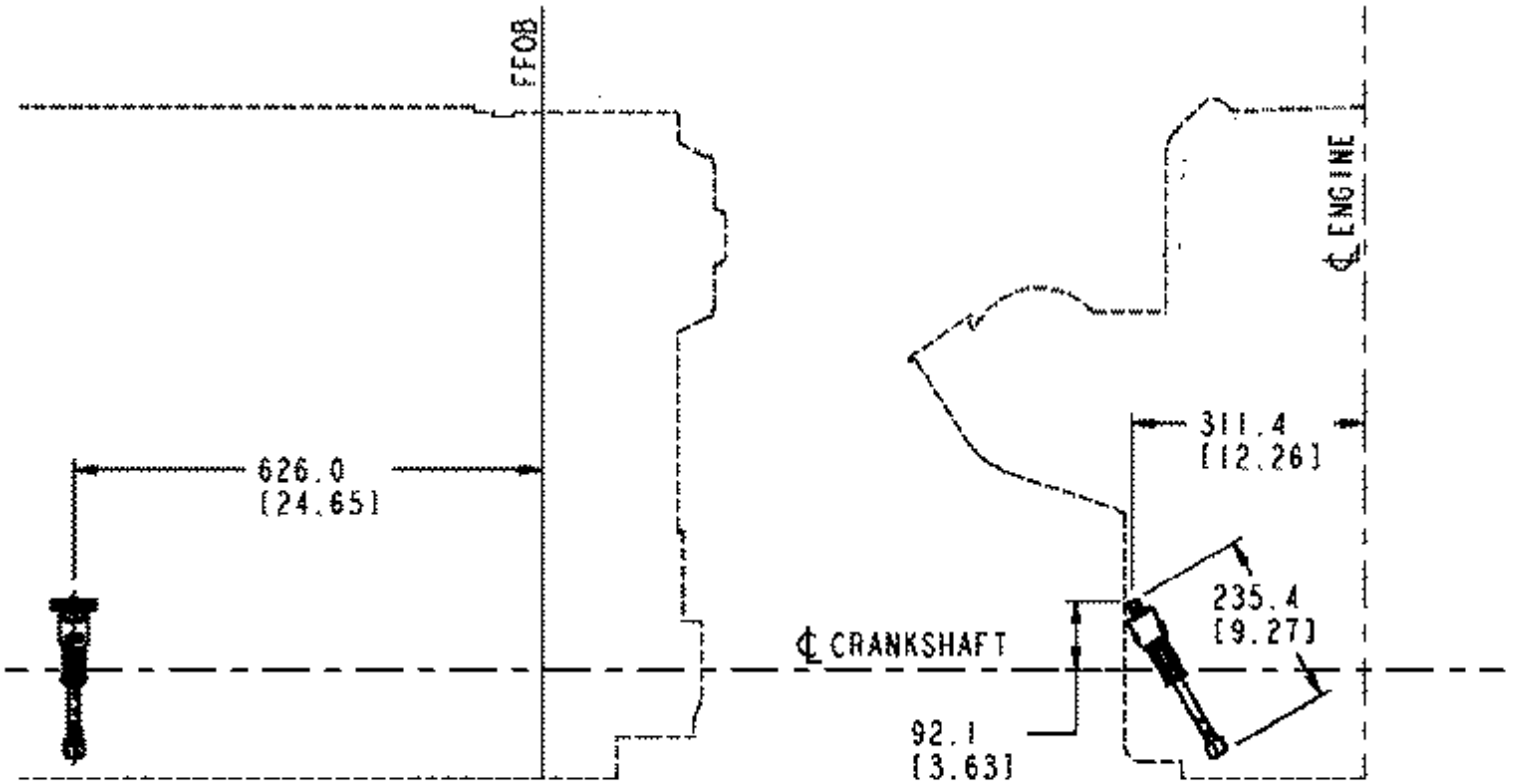
Option #	Handle Orientation	Location of Entry into Oil Pan	Use With	Power Angle
LG 1088	—	Intake side of engine to the rear	Full sump oil pan	0 deg.

Long oil level gauge.
 Sump capacity: 94.6 L [25 gal.] high, 83.3 L [22 gal.] low.

LG 1089

LG — Oil Level Gauge

Revision Date: 3/00



LG1079_MCS

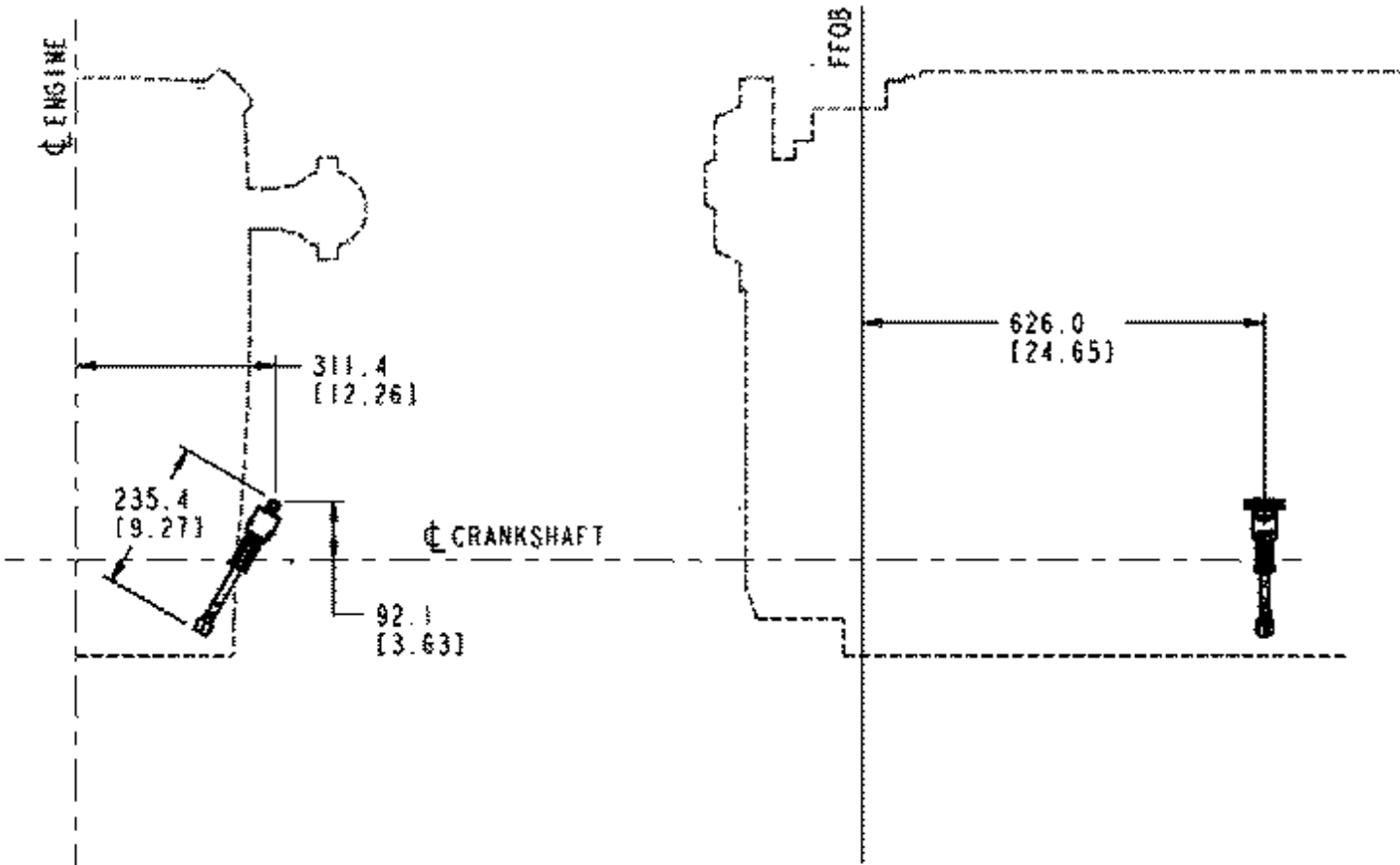
Option #	Handle Orientation	Location of Entry into Oil Pan	Use With	Power Angle
LG 1089		Gauge located on exhaust side of engine to the rear.	Full sump oil pan	0 deg.

Short oil level gauge.
 For use with full sump oil pan.
 Gauge located on exhaust side of engine to the rear.
 Sump capacity: 94.6 L [25 gal.] high, 83.3 L [22 gal.] low
 Power Angle: 0 deg.

LG 1090

LG — Oil Level Gauge

Revision Date: 3/00



LG1084_MCS

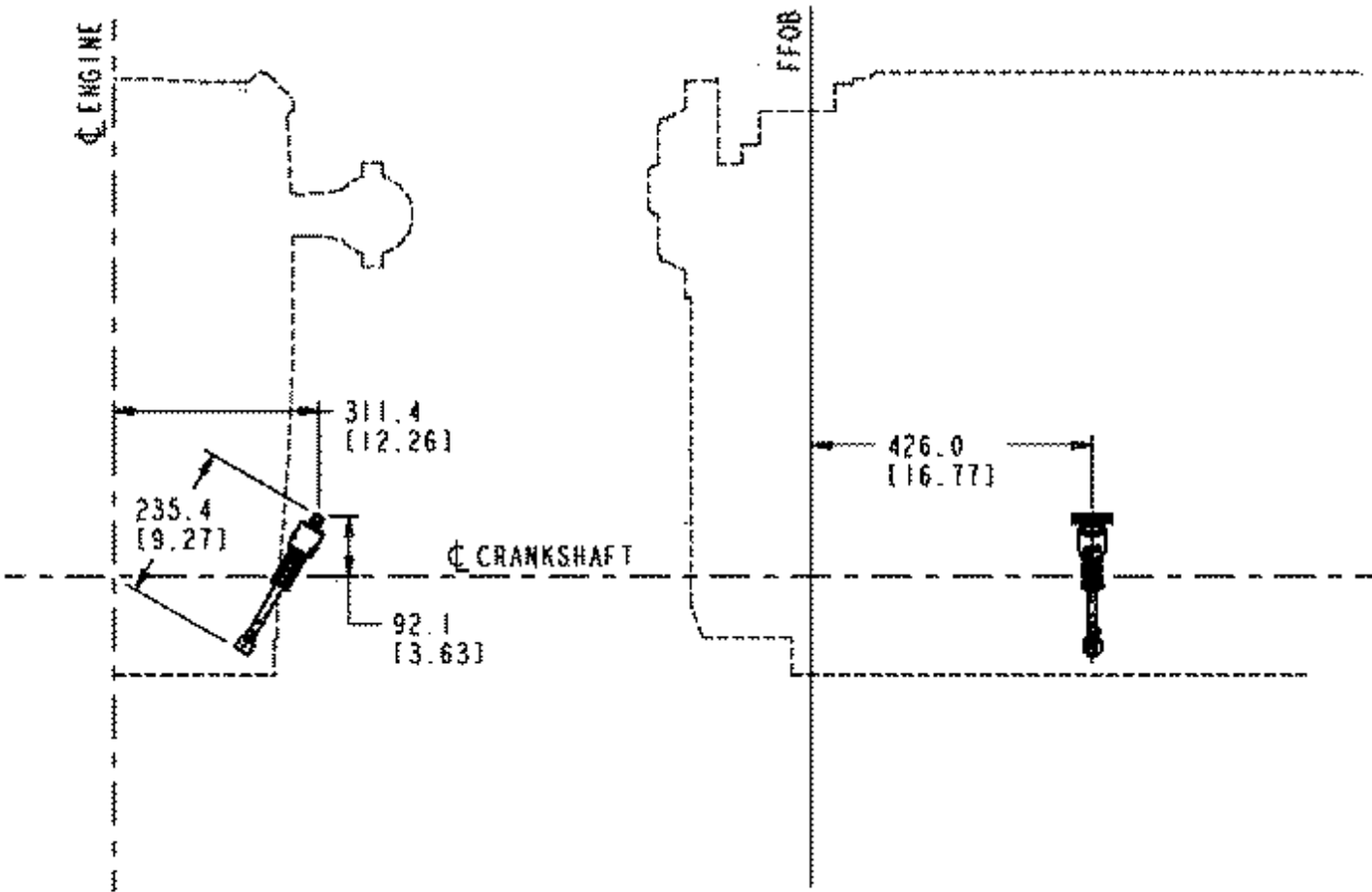
Option #	Handle Orientation	Location of Entry Into Oil Pan	Use With	Power Angle
LG 1090	—	Intake side of engine to the rear	Full sump oil pan	0 deg.

Short dipstick.
 Gauge located on intake side of engine to the rear.
 Power Angle: 0 deg.
 Sump capacity: 94.6 L [25 gal.] high, 83.3 L [22 gal.] low

LG 1091

LG — Oil Level Gauge

Revision Date: 3/00



LG1085.WCS

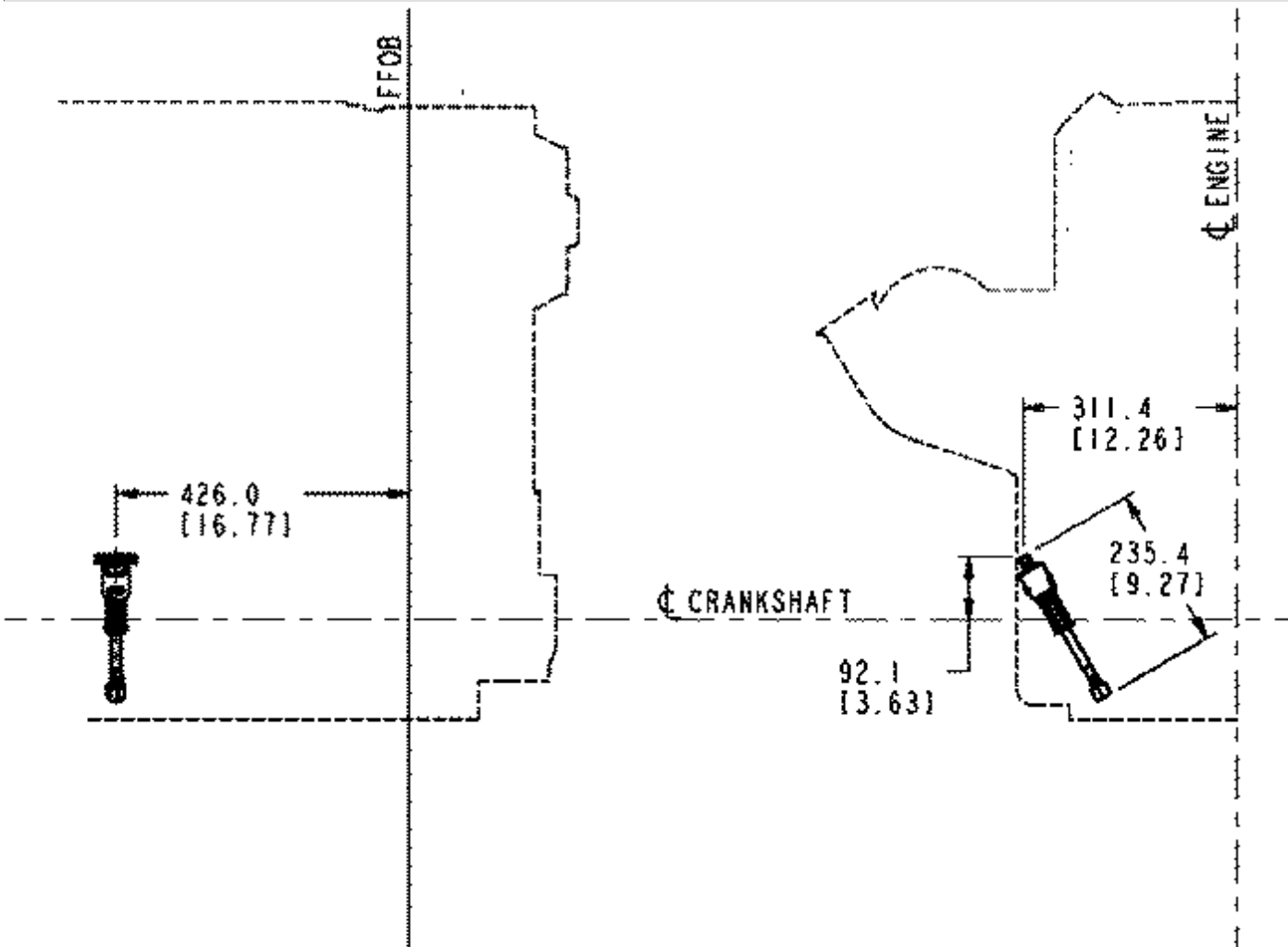
Option #	Handle Orientation	Location of Entry into Oil Pan	Use With	Power Angle
LG 1091	—	Intake side of engine to the front	Full sump oil pan	0 deg.

Short oil level gauge.
 For use with full sump oil pan.
 Gauge located on intake side of engine to the front.
 Sump capacity: 94.6 L [25 gal.] high, 83.3 L [22 gal.] low
 Power Angle: 0 deg.

LG 1092

LG — Oil Level Gauge

Revision Date: 3/00



LG1086_MCS

Option #	Handle Orientation	Location of Entry into Oil Pan	Use With	Power Angle
LG 1092	—	Exhaust side of engine to the front	Full sump oil pan	0 deg.

For use with full sump oil pan.
 Gauge located on exhaust side of engine to the front.
 Sump capacity: 94.6 L [25 gal.] high, 83.3 L [22 gal.] low.
 Power Angle: 0 deg.

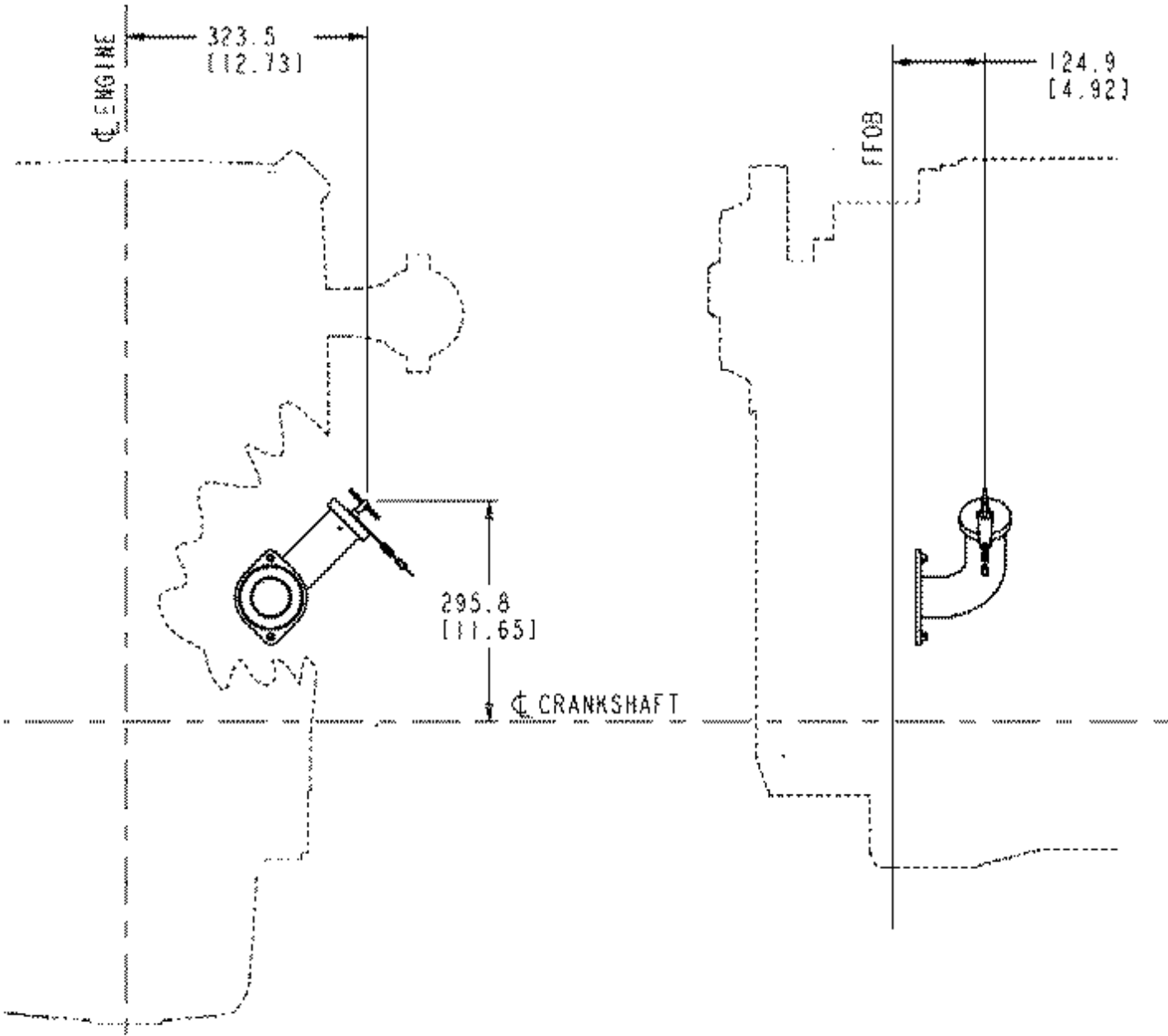
OB-Keydata

Option #	Location	Fill Type	With Dipstick	Notes
OB 1397	Back side of gear housing left side of engine	T-Handle	No	With barring device

OB 1397

OB — Oil Fill Arrangement

Revision Date: 09/00



OB1397_MCS

Option #	Location	Fill Type	With Dipstick	Notes
OB 1397	Back side of gear housing left side of engine	T-Handle	No	With barring device

Oil Fill Supplier: Cummins Supplied
 Oil Fill Location: Left Side back of gear housing

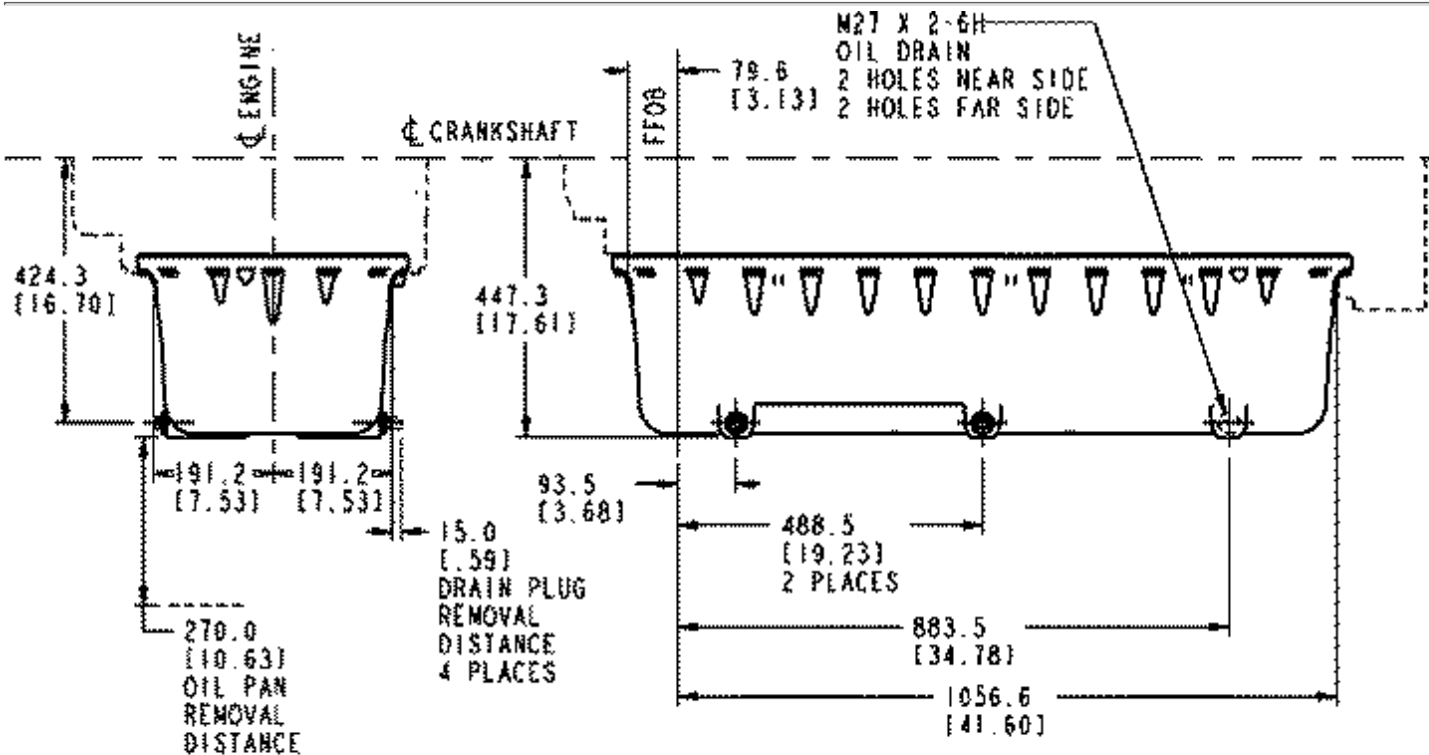
OP-Keydata

Option #	Type/Material	Drain Location	Angularity	Capacity
OP 1493	Full sump/Cast Aluminum	Front, Center and Rear		83.3 L [22 gal.] high, 72.0 L [19 gal.] low

OP 1493

OP — Oil Pan

Revision Date: 09/00



OP1493.WCS

Option #	Type/Material	Drain Location	Angularity	Capacity
OP 1493	Full sump/Cast Aluminum	Front, Center and Rear		94.6 L [25 gal.] high, 83.3 L [22 gal.] low

Engine capacity: 102.2 L [27 gal.]

PH-Keydata

Option #	Notes
PH 1772	Engine Control System: DOX

PH 1772

PH — Engine Control Module

Revision Date: 3/00



Option #	Notes
PH 1772	Engine Control System: DOX

Engine Control System: DOX

ECM Version: DC1004

Module Location: Off-Engine

Ambient Air Pressure Sensor Included: Yes

Intake MFLD Temp Sensor Manufacturer: Kaylico

Application: Power Generation

PR-Keydata

Option #	Description
PR 1007	Light
PR 1008	Light rustproofing using matl. spec 20050.

PR 1007

PR - Corrosion Preventative

Revision Date: 06/00

(No Graphics Required)

Option #	Description
PR 1007	Light

“Light” rustproofing with Ferrocoate (5856HF-3) on “flywheels only” of engines having normal exposure to the environment during shipping and storage (i.e. engines shipped on closed trailers and/or stored in controlled environment storage areas).

PR 1008

PR — Corrosion Preventative

Revision Date: 3/00

(No Graphics Required)

Option #	Description
PR 1008	Light rustproofing using matl. spec 20050.

Light rustproofing using matl. spec 20050. Overspray entire engine. To be used in conjunction with vapor bag for engines having normal exposure to the environment during shipping and storage. (I.E. Engines shipped on closed trailers and stored in controlled environment storage areas).

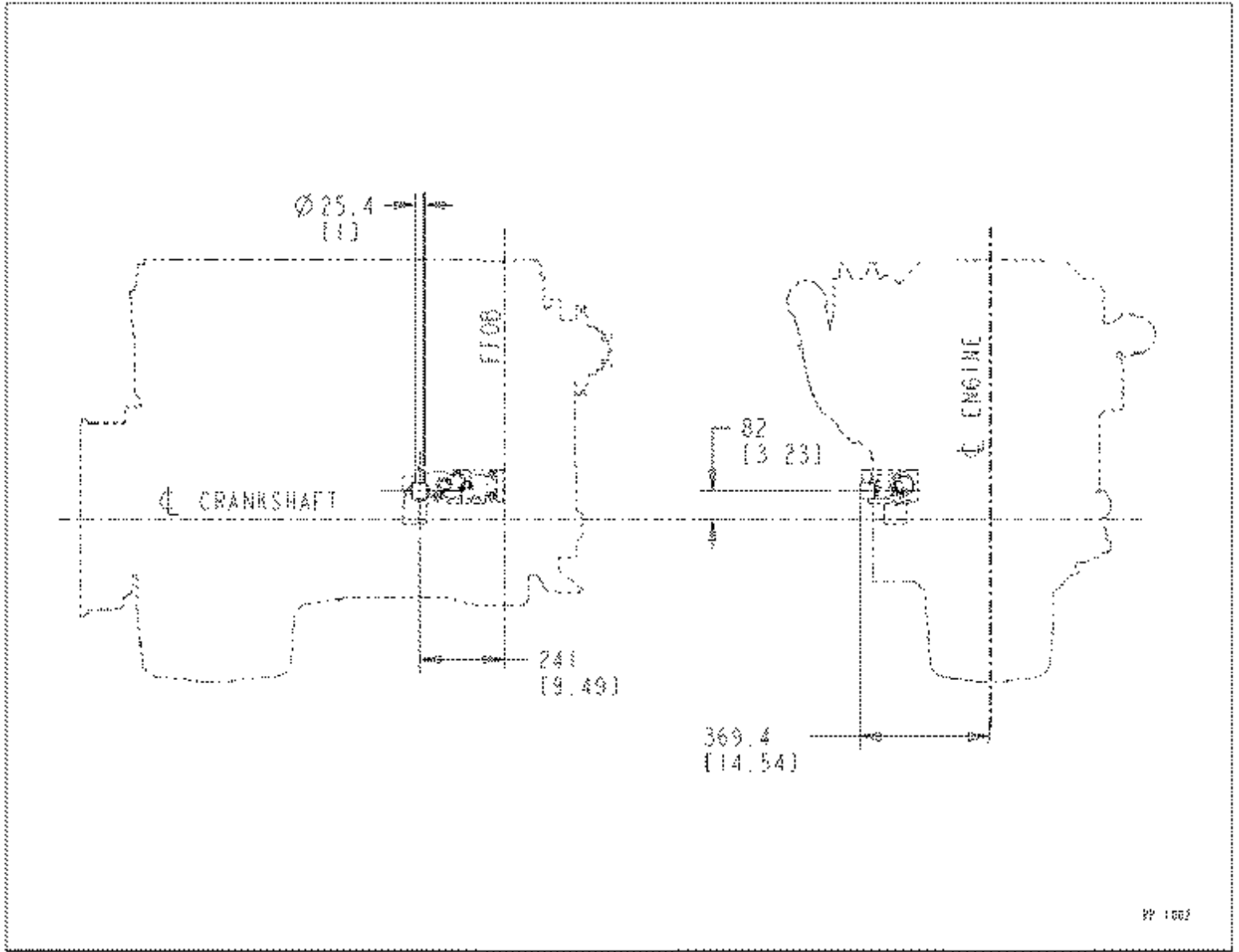
RP-Keydata

Option #	Description	Notes
RP 1002	Cummins supplied hose coupling.	Water connection: 90 deg. elbow pointing straight up.
RP 1003	Customer supplied plumbing.	Water connection: Plugged

RP 1002

RP — Radiator Plumbing

Revision Date: 3/00



RP 1002

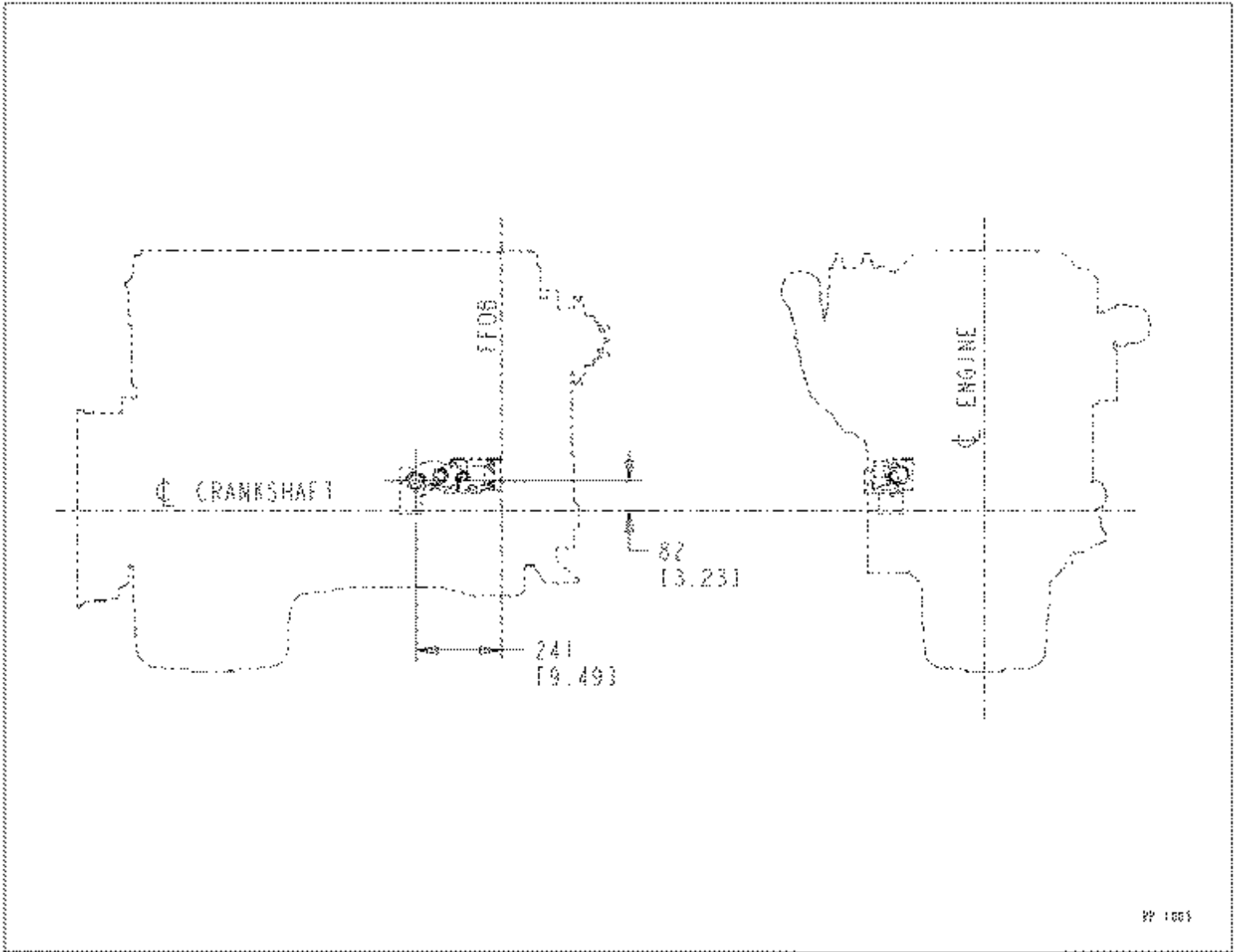
Option #	Description	Notes
RP 1002	Cummins supplied hose coupling.	Water connection: 90 deg. elbow pointing straight up.

Cummins supplied hose coupling.
 Water connection: 90 deg. elbow pointing straight up.

RP 1003

RP — Radiator Plumbing

Revision Date: 3/00



RP 1003

Option #	Description	Notes
RP 1003	Customer supplied plumbing.	Water connection: Plugged

Customer supplied plumbing.
Water connection: Plugged

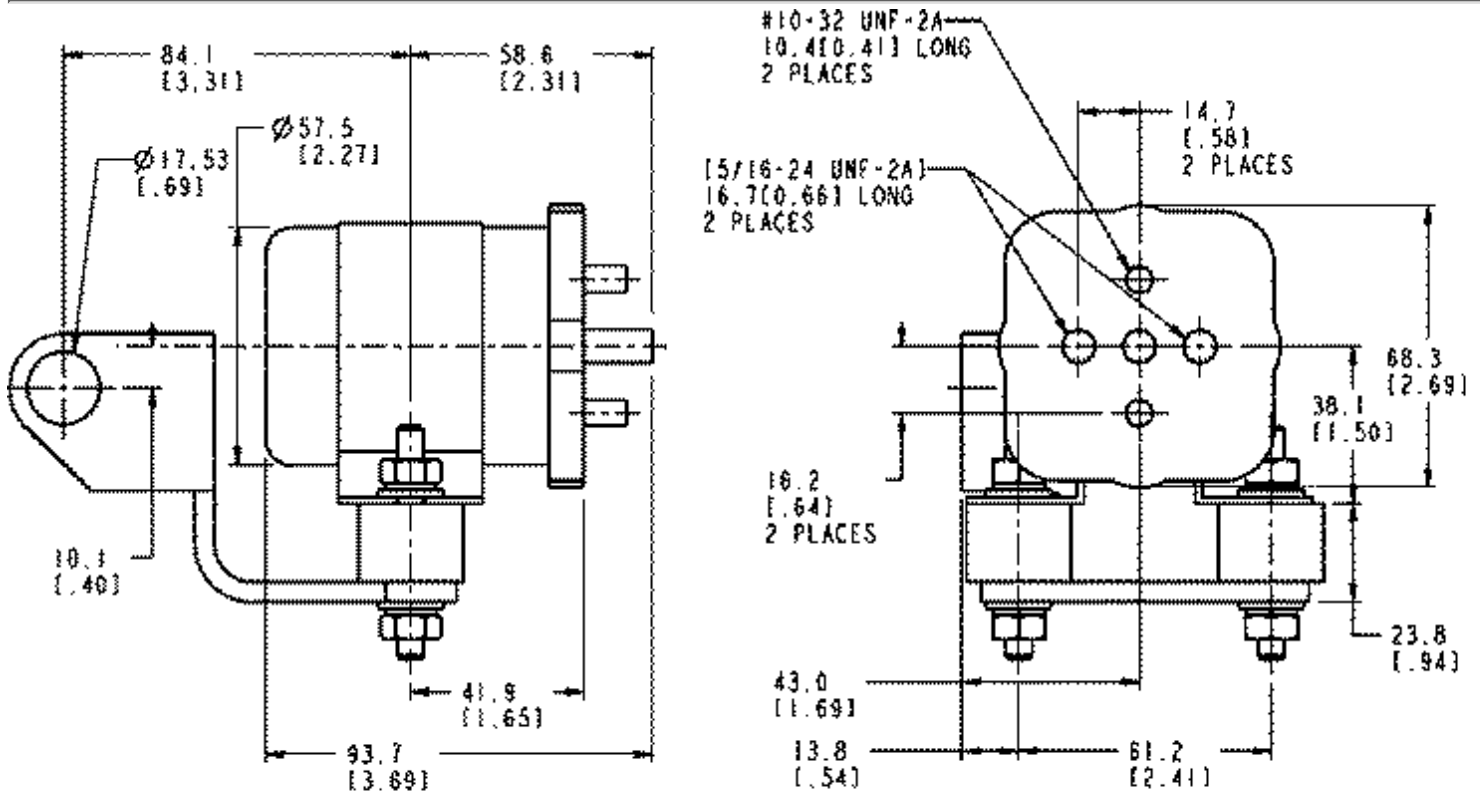
SB-Keydata

Option #	Description	Voltage/Amps	Notes
SB 1002	Insulated Magnetic Switch	24V	
SB 1018	Starting and charging harness	Right side of engine	

SB 1002

SB - Electric Starting Accessories

Revision Date: 09/00



SB1002.MCS

Option #	Description	Voltage/Amps	Notes
SB 1002	Insulated Magnetic Switch	24V	

24V insulated magnetic switch.
 For use with single or dual positive engagement electronic starter/starters secured to the starter mounting flange.

SB 1018

SB — Electric Starting Accessories

Revision Date: 3/00

(No Graphics Required)

Option #	Description	Notes
SB 1018	Starting and charging harness	Right side of engine

Starting and charging harness for QSX15-G engines with starter mounted on right side of engine.

SK-Keydata

Option #	Description	Disposition	Material	Notes
SK 1018	Domestic use only	Non-Returnable	Wood	
SK 1019	International use only	Non-Returnable	Wood	With plastic cover

SK 1018

SK — Shipping Arrangement

Revision Date: 01/00

(No Graphics Required)

Option #	Description	Disposition	Material	Notes
SK 1018	Domestic use only	Non-Returnable	Wood	

SK 1019

SK — Shipping Arrangement

Revision Date: 01/00

(No Graphics Required)

Option #	Description	Disposition	Material	Notes
SK 1019	International use only	Non-Returnable	Wood	With plastic cover

SS-Keydata

Option #	Description
SS 1139	Black

SS 1139

SS — Paint

Revision Date: 01/00

(No Graphics Required)

Option #	Description
SS 1139	Black

Cummins specification number 21076.

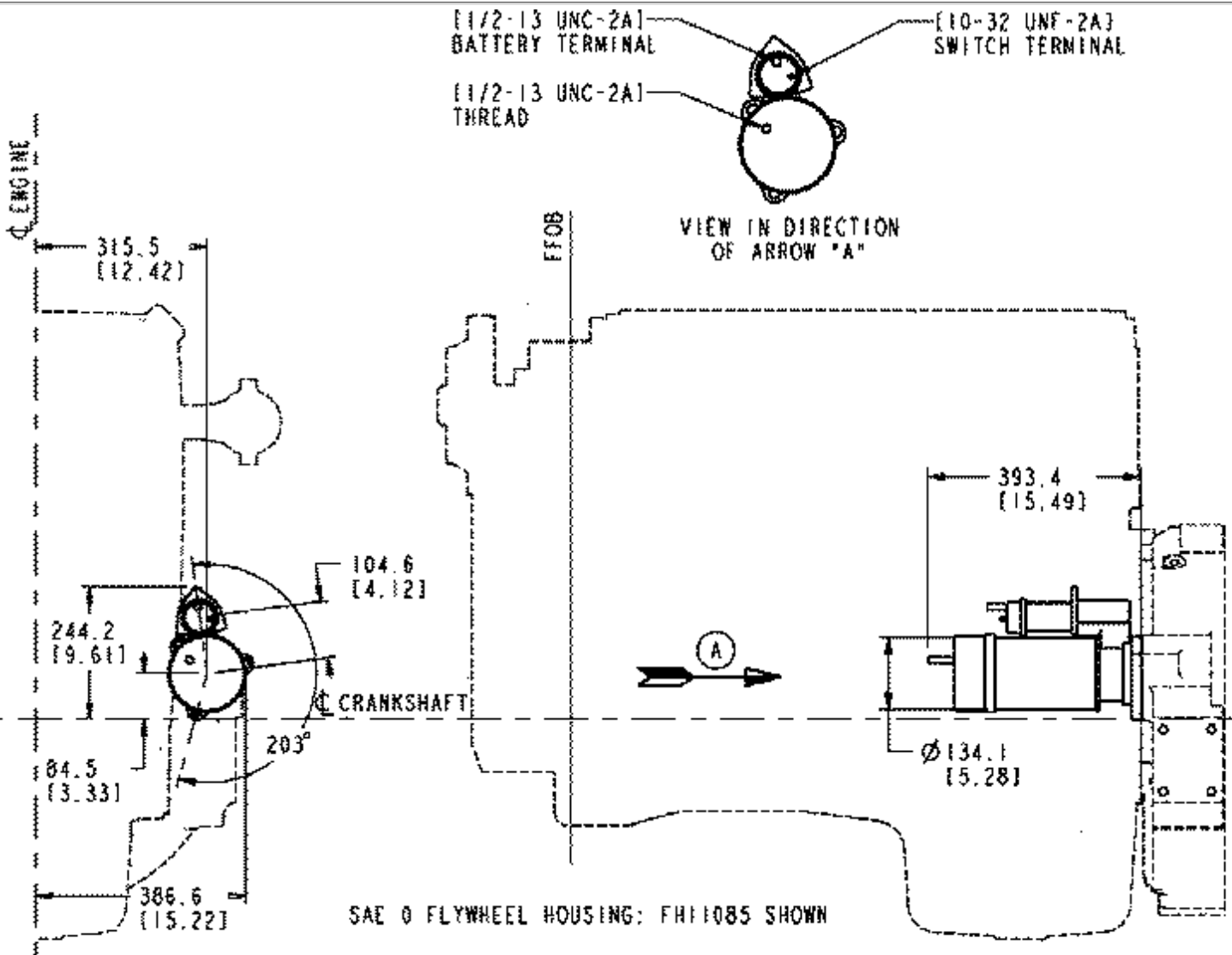
ST-Keydata

Option #	Voltage/kW	Mfg/Model	Pinion Gear Pitch	Notes
ST 1334	24V	Delco Remy/ 42MT400	6/8	Engine Left (quadrant 3 or 4)
ST 1361	24 V	Delco-Remy/ 50MT400	6/8	Engine left (quadrant 3 or 4)
ST 1363	24 V	Delco-Remy/ 42MT400	6/8	Engine right (Quadrant 1 or 2)

ST 1334

ST - Starting Motor

Revision Date: 06/00



ST1336_MCS

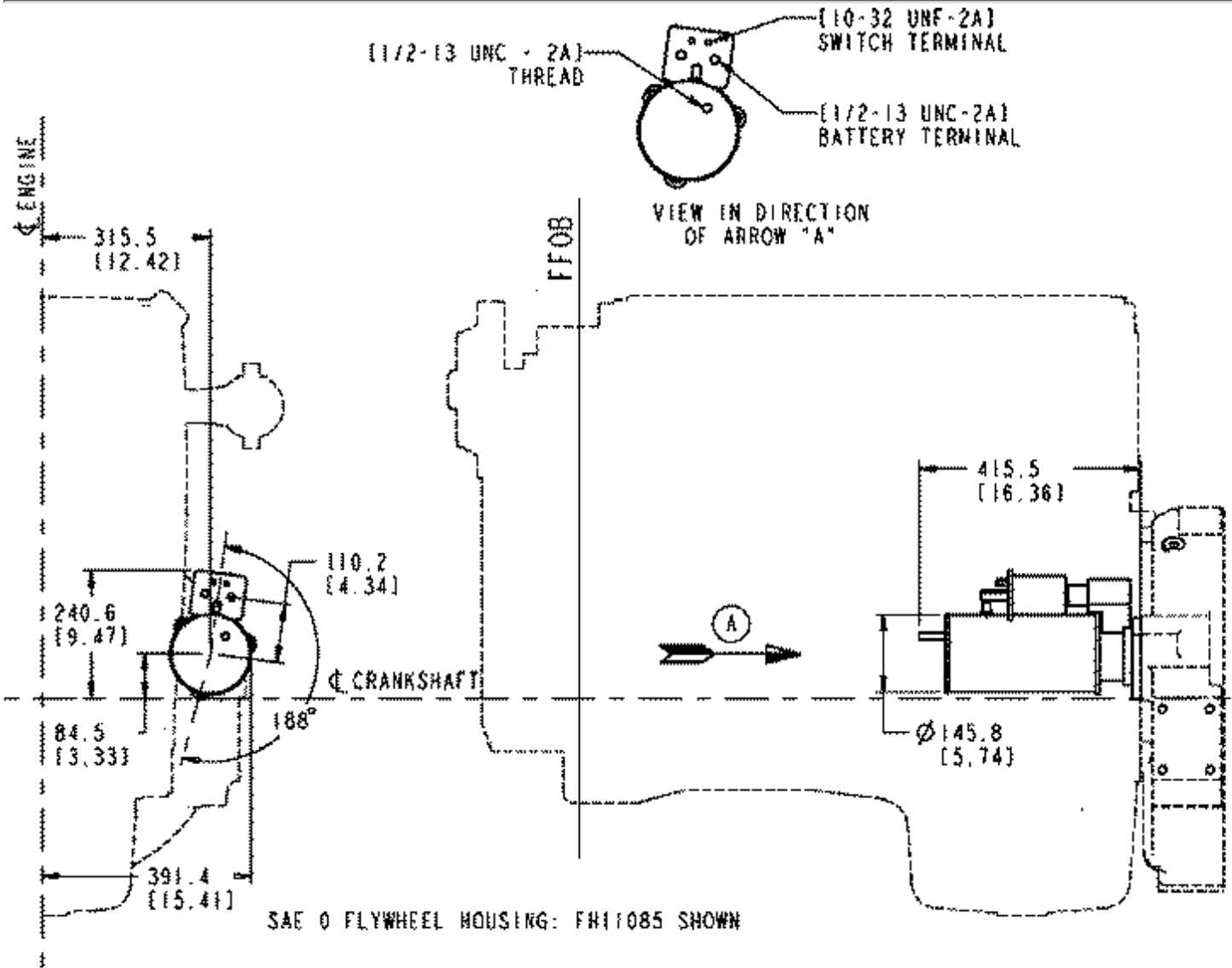
Option #	Voltage/kW	Mfg/Model	Pinion Gear Pitch	Notes
ST 1334	24V	Delco Remy/ 42MT400	6/8	Engine Left (quadrant 3 or 4)

Manufactured by Delco Remy, Branded for Cummins
 Model: DR42MT400
 Voltage: 24
 Rotation: Right Hand
 Solenoid Angle (deg.): 82
 Length: 393.45 mm [15.5 in.]
 Power Supply: Electric
 Starter location: Engine left

ST 1361

ST — Starting Motor

Revision Date: 03/00



ST1361.MCS

Option #	Voltage/V	Manufacturer/ Model	Pinion Gear Pitch	Notes
ST 1361	24 V	Delco-Remy/ 50MT400	6/8	Engine left (quadrant 3 or 4)

Manufactured by Delco Remy, Branded for Cummins
 Model: DR50MT400
 Voltage: 24
 Rotation: Right Hand
 Solenoid Angle (deg.): 67.5
 Length: 415.54mm (16.36in)
 Power Supply: Electric

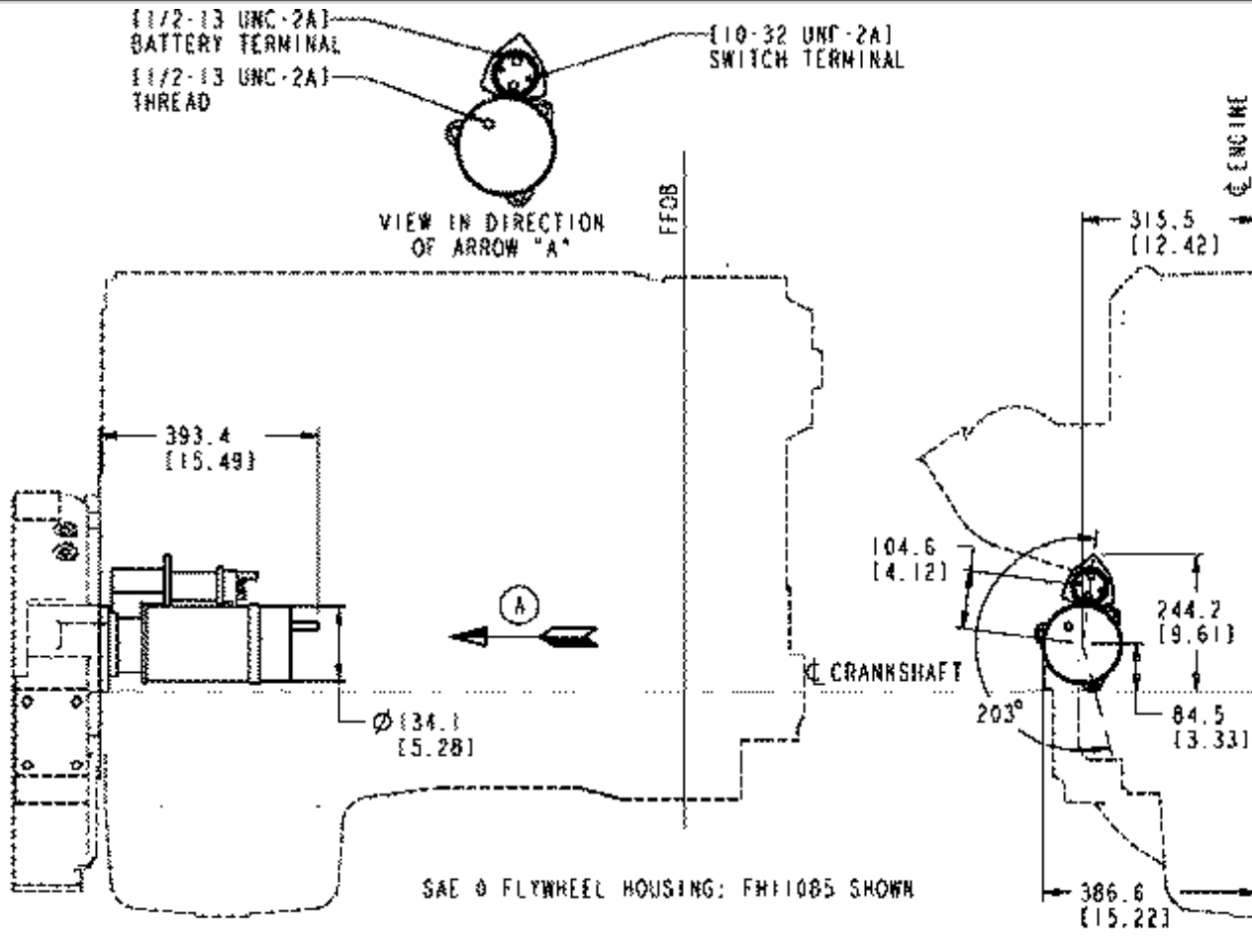
ST 1361

Starter location: Engine left

ST 1363

ST — Starting Motor

Revision Date: 01/00



ST1362.NCS

Option #	Voltage/V	Manufacturer/ Model	Pinion Gear Pitch	Notes
ST 1363	24 V	Delco-Remy/ 42MT400	6/8	Engine right (Quadrant 1 or 2)

Manufactured by Delco Remy, Branded for Cummins

Model: DR42MT400

Voltage: 24

Rotation: Right Hand

Solenoid Angle (deg.): 277.5

Length: 393.45 mm (15.5 in)

Power Supply: Electric

Starter location: Engine right

Note: Note: Not compatible with OB 1401

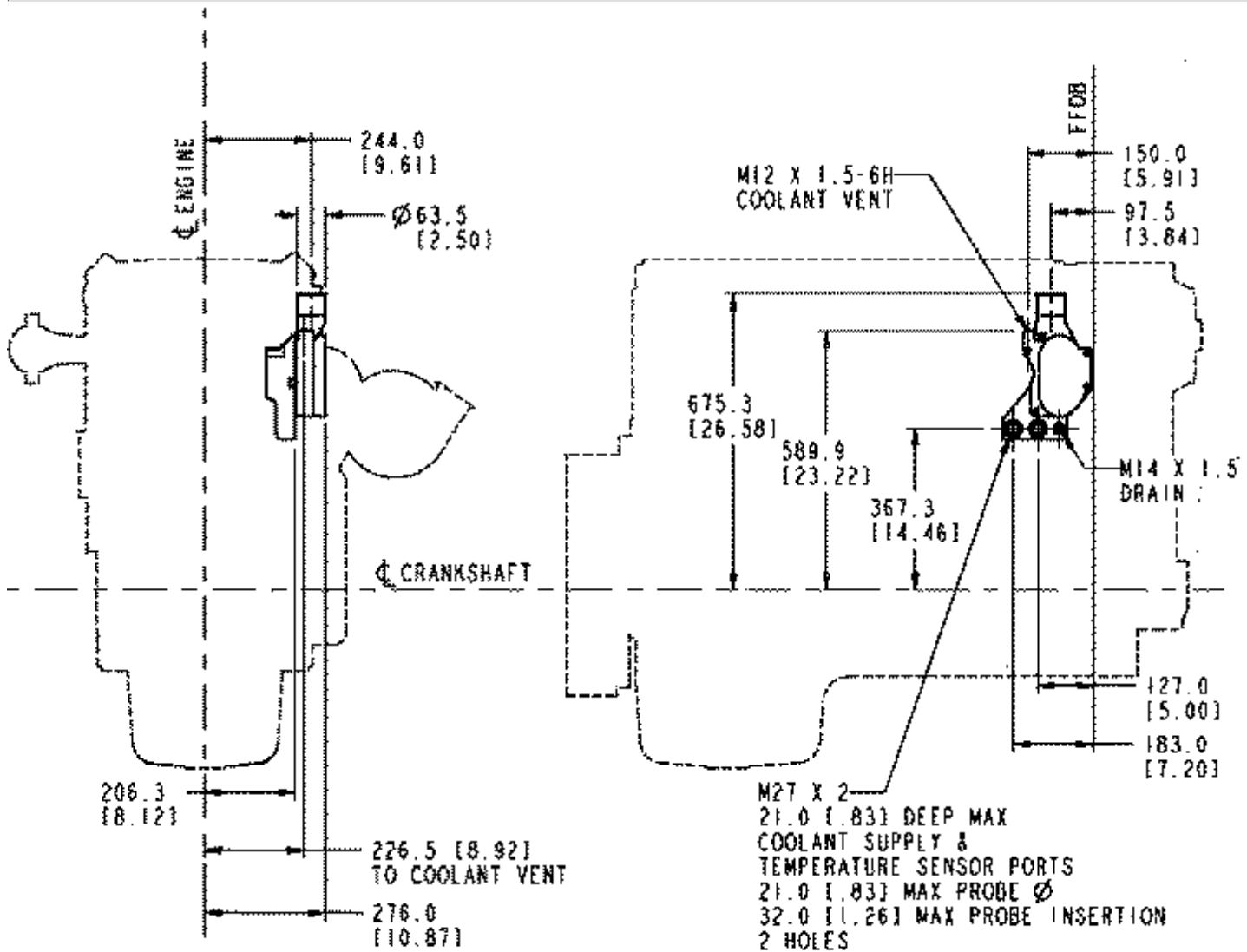
TH-Keydata

Option #	Description	Outlet Diameter	Notes
TH 1156	One thermostat housing with two thermostats and cast in water outlet connection pointed up.	2.5"	Engine Type: STA electronic

TH 1156

TH — Thermostat Housing

Revision Date: 3/00



TH1156_MCS

Option #	Description	Outlet Diameter	Notes
TH 1156	One thermostat housing with two thermostats and cast in water outlet connection pointed up.	2.5"	Engine Type: STA electronic

One thermostat housing with two thermostats and cast in water outlet connection pointed up.
 Water outlet connection O.D. 2.5"
 Engine Type: STA electronic
 Unique characteristics: Vertical water vent port (M12 stor)

VC-Keydata

Option #	Description	Oil Fill Location	Breather Included	Notes
VC 1072	Valve Cover	None	No	Plastic

QSX15G

VC - Valve Cover

VC1072

The drawing shows a side view of the valve cover VC1072. A vertical dimension line indicates a height of 749.9 (29.521) from the crankshaft centerline to the top of the cover. Reference points are labeled as CL ENG ME, FF08, and CL CRANKSHAFT. A small box in the bottom right of the drawing contains the text VC1072.MCS.

VC1072 [M]

Option #	Description	Oil Fill Location	Breather Included	Notes
VC 1072	Plastic	None	No	

Use with carrier-type gasket

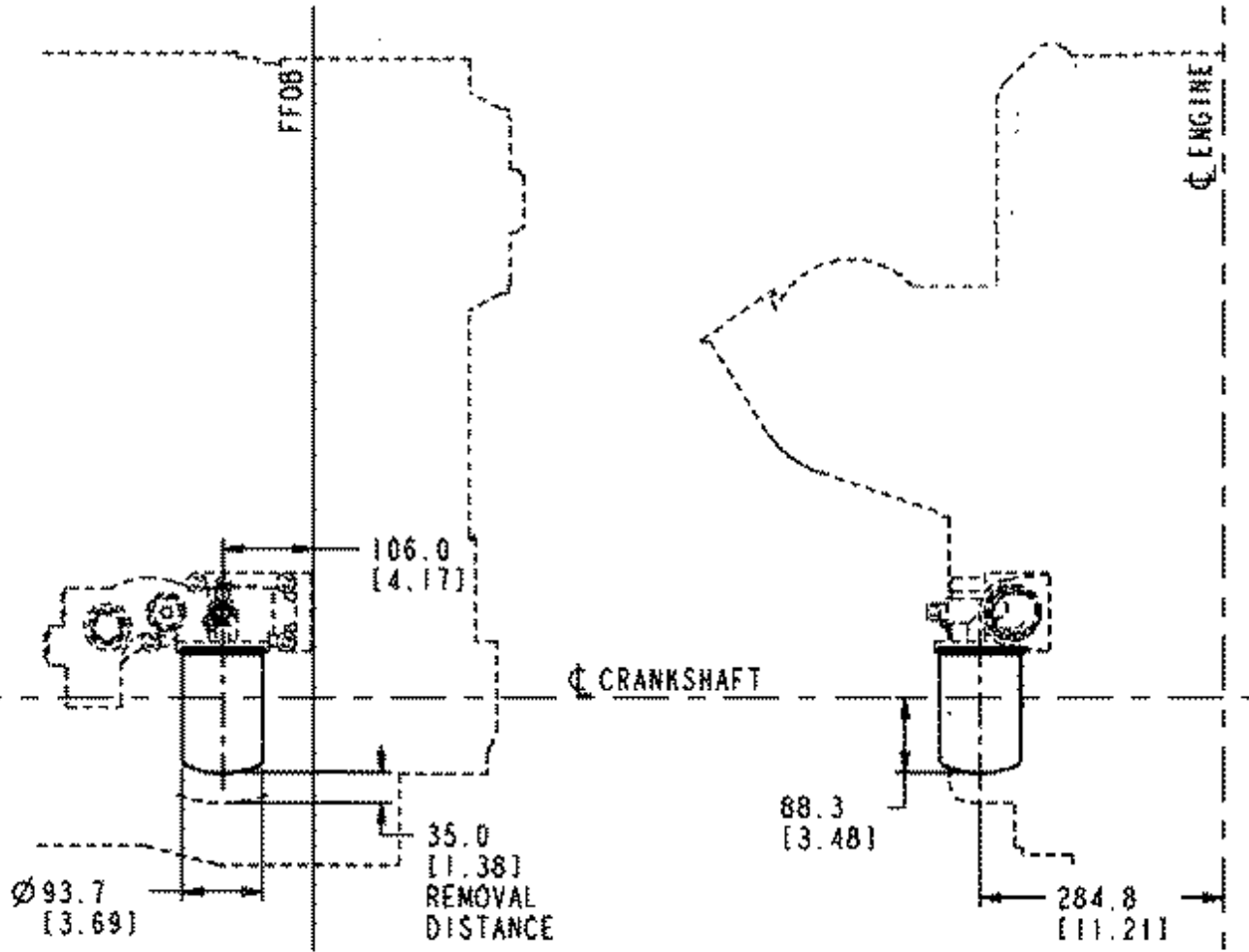
WF-Keydata

Option #	Supplier/Type	Mounting	DCA4 Plus Units	Notes
WF 1236	Fleetguard/ WF2125	Engine Direct Mount	15 units ES	150,000 Mile/ 241,401 km/ 4,000 Hours
WF 1241	Fleetguard/WF2126	Engine Direct Mount	8 units DCA4 Plus	50,000 mile/ 80,467 km/ 1,250 Hours
WF 1242	Fleetguard/ WF2127	Engine Direct Mount	0 units	150,000 mile/ 241,401 km/ 4,000 Hours

WF 1236

WF — Corrosion Resistor

Revision Date: 01/00



WF1241.NCS

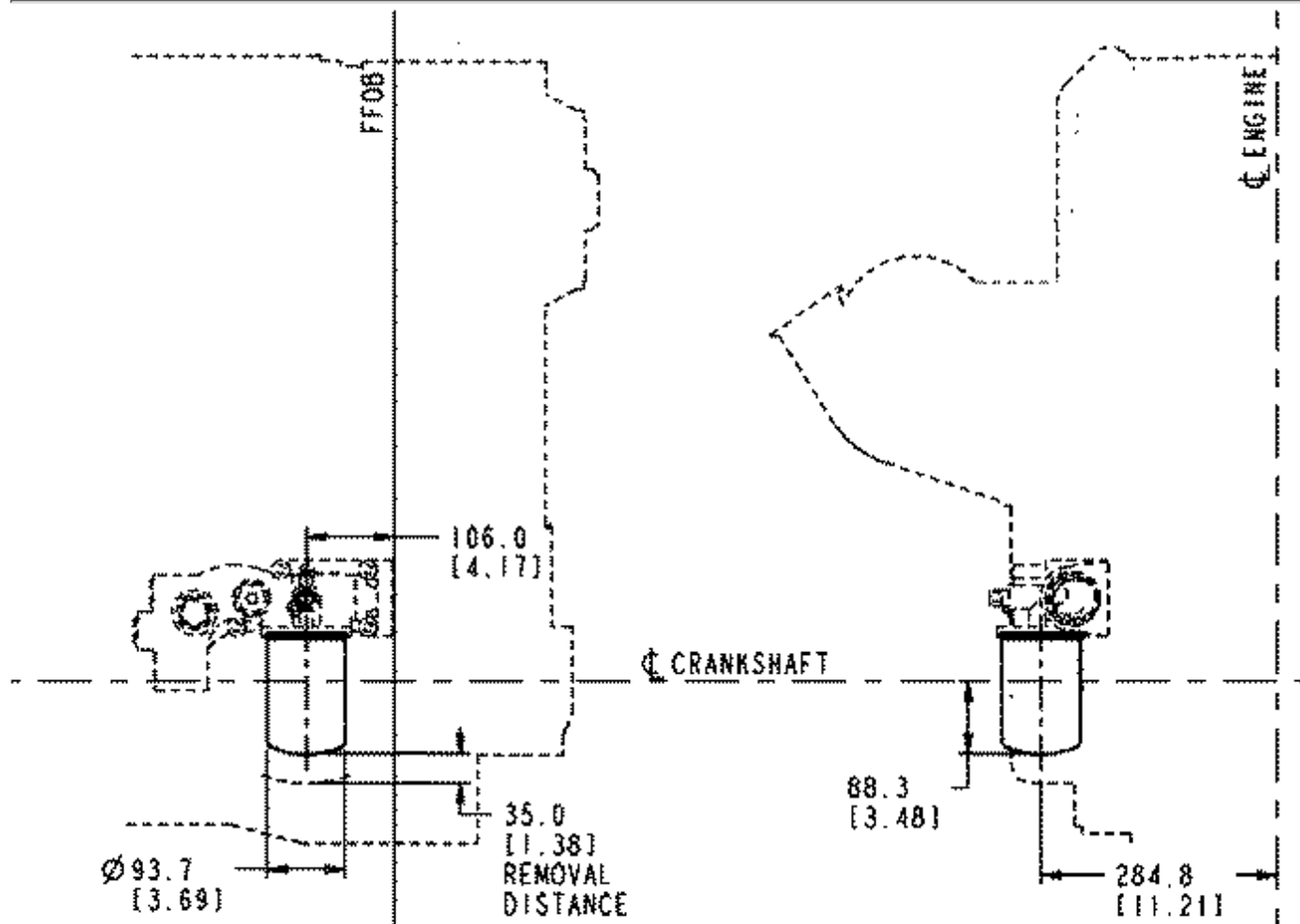
Option #	Supplier/Type	Mounting	DCA4 Plus Units	Notes
WF 1236	Fleetguard/ WF2125	Engine Direct Mount	15 units ES	150,000 Mile/ 241,401 km/ 4,000 Hours

Fleetguard (WF 2125)
 Element with 15 units of slow release ES type additives.
 For use with fully formulated coolants (with additives)
 meeting TMC RP 329 or 330.
 TMC RP 302 low silicate coolants requires RP 328 additives.

WF 1241

WF — Corrosion Resistor

Revision Date: 07/00



WF1241.NCS

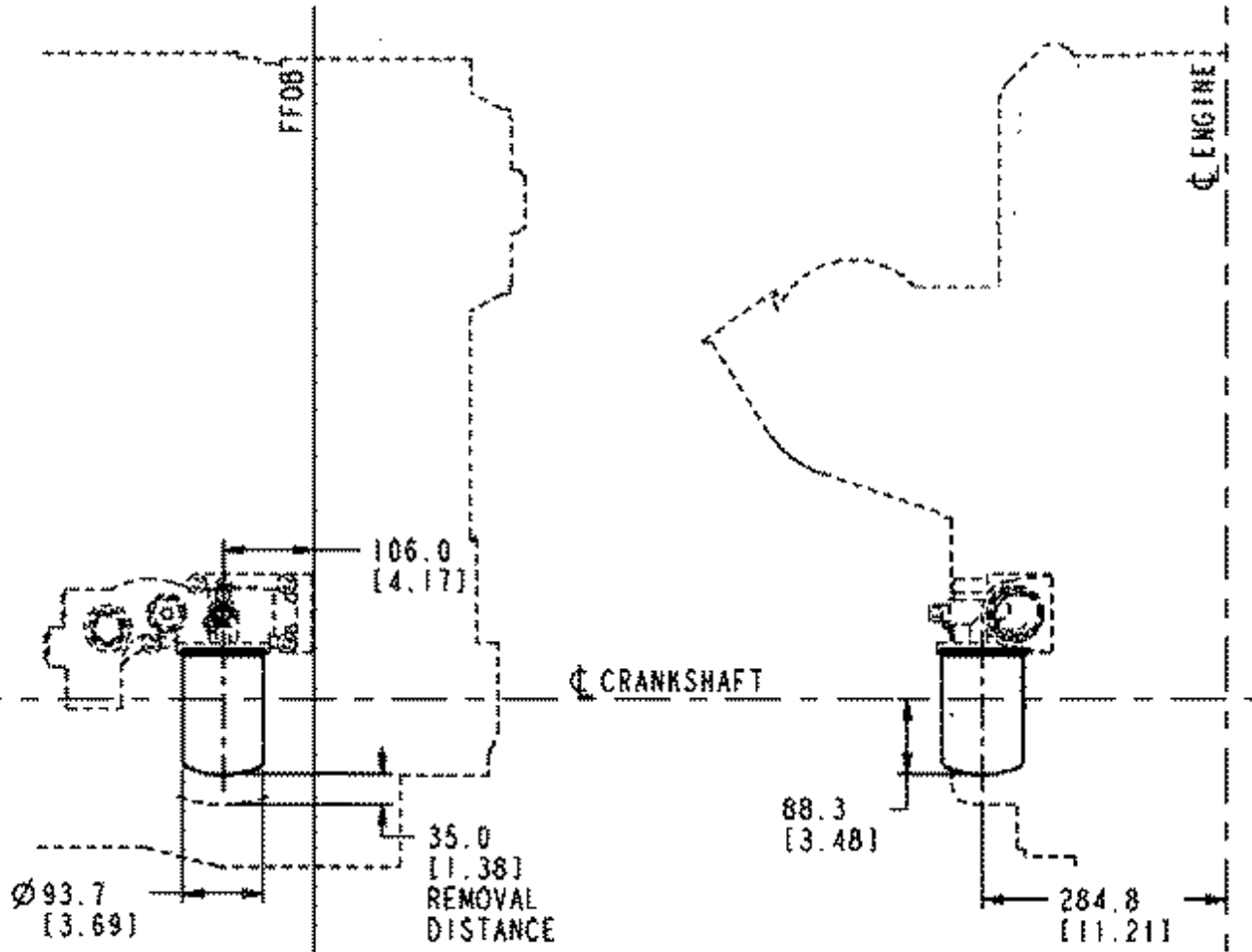
Option #	Supplier/Type	Mounting	DCA4 Plus Units	Notes
WF 1241	Fleetguard/WF2126	Engine Direct Mount	8 units DCA4 Plus	50,000 mile/ 80,467 km/ 1,250 Hours

Corrosion resistor with Fleetguard (WF2126) element with 8 units of DCA4 Plus type additives.
 For use with fully formulated coolants (with additives)
 meeting TMC RP 329 or 330.
 TMC RP 302 low silicate coolants requires RP 328 additives.

WF 1242

WF — Corrosion Resistor

Revision Date: 01/00



WF1241.NCS

Option #	Supplier/Type	Mounting	DCA4 Plus Units	Notes
WF 1242	Fleetguard/ WF2127	Engine Direct Mount	0 units	150,000 mile/ 241,401 km/ 4,000 Hours

Corrosion resistor with Fleetguard (WF2127) element.
 For use with coolants (i.e. Texico ELC) that do not
 recommend additives in the element.
 Check with your coolant supplier.

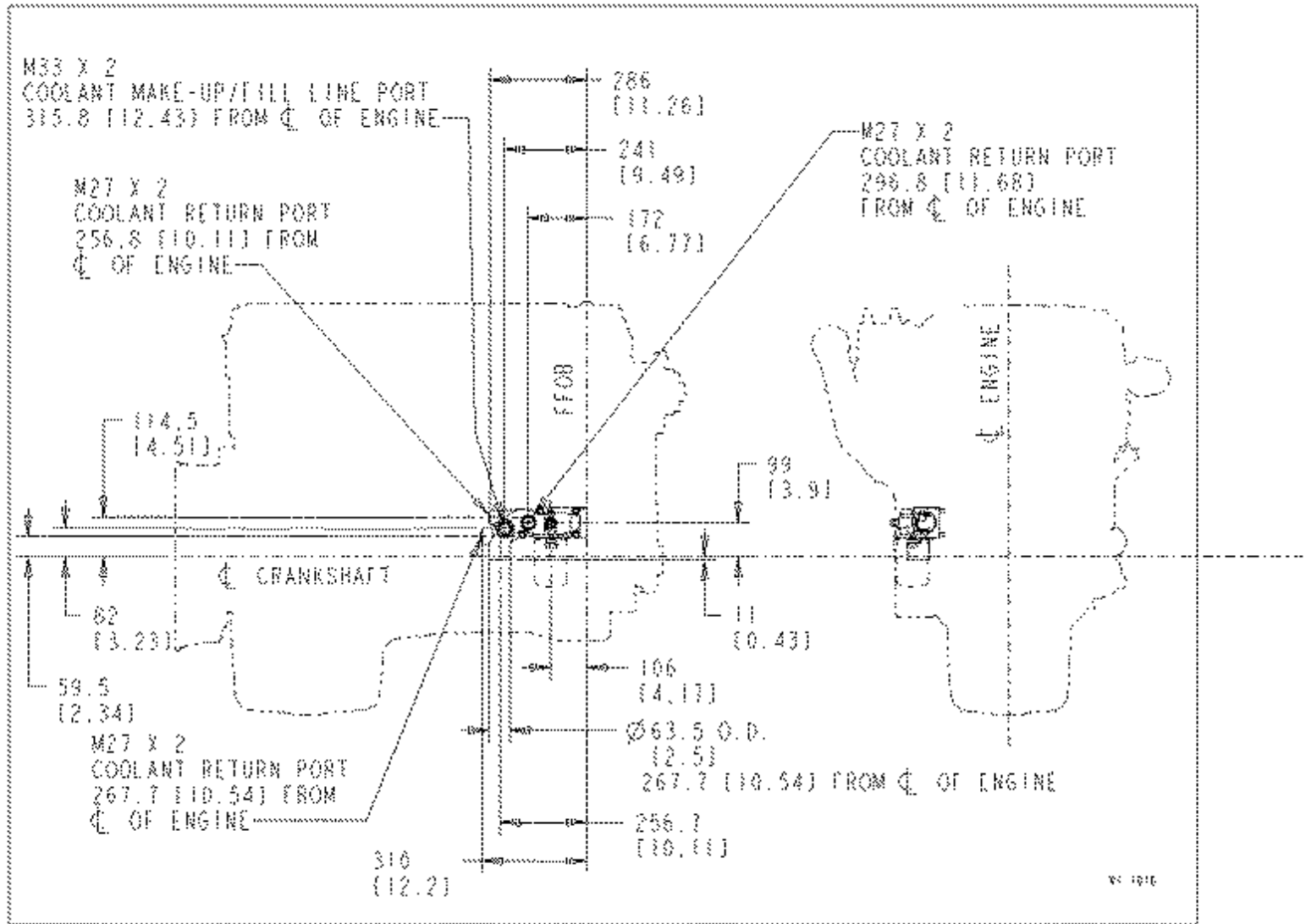
WI-Keydata

Option #	Inlet O.D.	Orientation	Notes
WI 1076	2.5" ID.	Connection mounted pointing down.	

WI 1076

WI — Water Inlet Connection

Revision Date: 3/00



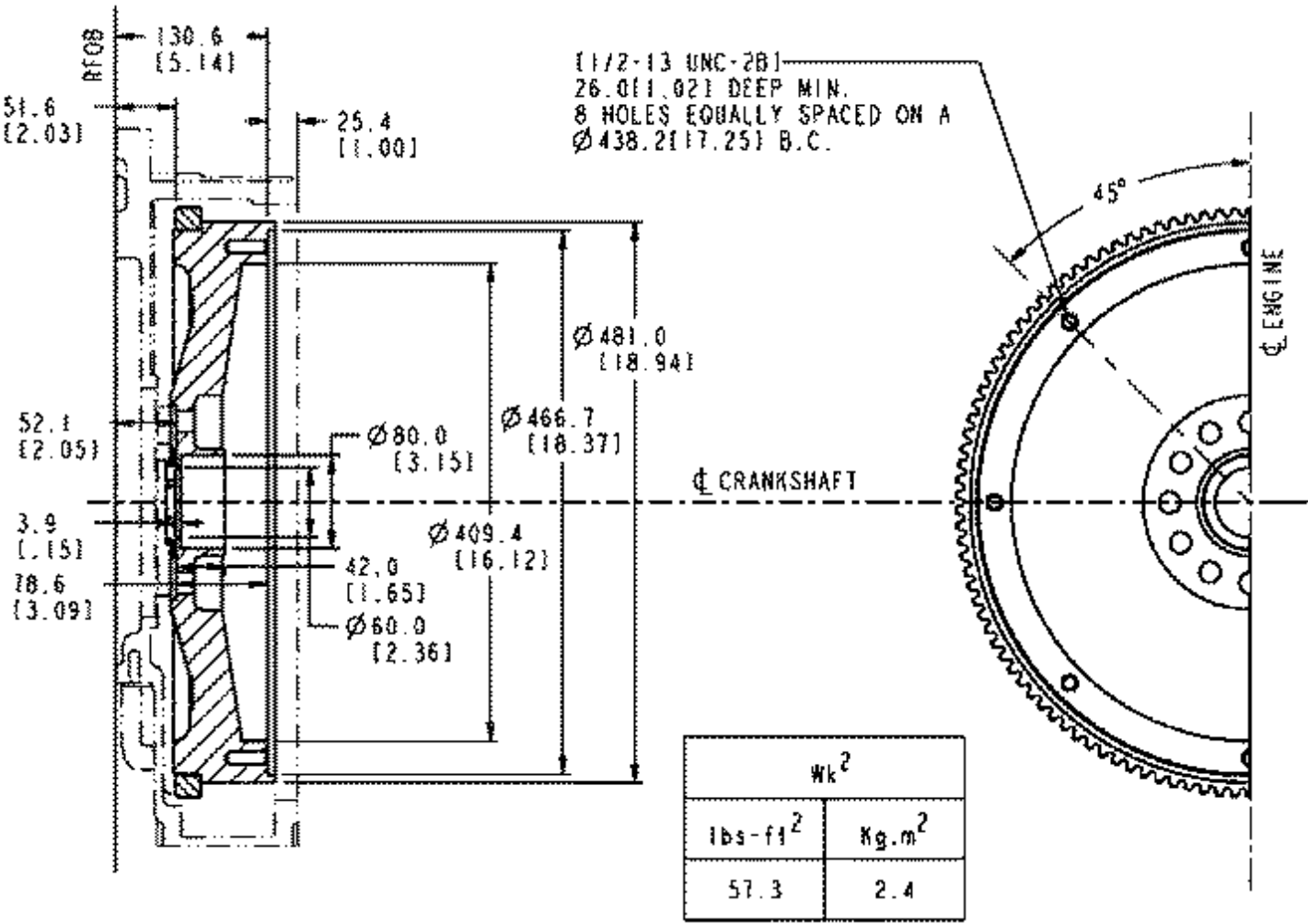
Option #	Inlet O.D.	Orientation	Notes
WI 1076	2.5" ID.	Connection mounted pointing down.	

45 deg. aluminum connection.
 2.5" ID.
 Connection mounted pointing down.

FW 1022

FW — Flywheel

Revision Date: 03/00



SAE 1 FLYWHEEL HOUSING: FH11089 SHOWN

FW1022.MCS

Option #	SAE	Pilot Bearing Bore Dia	Ring Gear Pitch/Teeth	Indicated Drive
FW 1022	No. 1	80.00 mm [3.15 in.]	6/8 — 118	Overcenter clutch

Type: Flywheel
 Intended Housing SAE: 1
 Starter Center Distance: 275.59 mm [10.85 in.]
 Clutch Bearing Pilot Bore Dia: 80.00 mm [3.15 in.]
 Clutch Size: 355.6 mm (14 in.)
 Rear Gear Drive: No
 Intended Drive Hardware: Overcenter clutch
 Transmission Mtg. Face to R.F.O.B.: 130.4 mm (5.134 in.)
 Additional Information: 118 tooth ring gear