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PRIOR TO INSTALLATION READ THESE INSTRUCTION COMPETELY For questions, Call the FORD PERFORMANCE Techline 1-800-367-3788

Please visit https://www.performanceparts.ford.com for warranty information

INSTALLATION INSTRUCTIONS:

These instructions consist of (4) Sections:

- 1. Technical Specifications M-6007-572 Crate Engine
- 2. Lubrication Priming Procedure
- 3. Bill of Materials
- 4. Torque Specifications

1. Technical Specifications M-6007-572DF/DR Crate Engine

Crate Engine Part Number M-6007-572FT/RT

Engine Type 460 based crate engine (385 series)

Displacement (cubic inches) 572

Horsepower Rating 655 HP STP cor. @ 6400 rpm 710 lb* ft STP cor. @ 5300 rpm

Block M-6010-A460 / A460XBB Cast Iron; 4 Bolt Main (center 3)

Bore 4.500 Stroke 4.500

Crankshaft Forged Steel Neutral Balance
Vibration Damper M-6316-A521 Neutral Balance

Connecting Rod Forged Steel H Beam (6.700 Center to Center .990 Pin)

Piston Forged Aluminum Camshaft Hydraulic Roller

Cam Timing Position "0" (multi index crank sprocket)

Camshaft Lobe Separation 112

Camshaft Duration 259 and 263 @ .050

Camshaft Lift .649"

Cylinder Head M-6049-SCJA Aluminum

Chamber Volume 72cc

Valve Diameter Int./Ex. 2.200 Int./1.760 Ex.

Compression Ratio 10.0:1

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240° F

195° F

Rocker Arm Stainless Steel Roller 1.73:1 Ratio

Recommended Timing 28°BTDC Total 4000 rpm

Maximum Rated rpm 6500 rpm

Oil Pan M-6675-DRS460 or M-6675-FT460

Oil Filter M-6731-FL1A

Oil Pressure 60 psi @ 240° F/ 4000 rpm minimum

Recommended Oil 10w-40 Mobil 1

Max Oil Temperature
Recommended Coolant Temperature

Spark Plugs AGSP-32CA Firing Order 1-3-7-2-6-5-4-8

Fuel Pressure (@ carburetor) 6-7 psi

Recommended Parts Not Included Oil Cooler / Remote Filter adapter

Canton Racing Products - PN 22-595 - FORD 90 DEGREE ROTATING REMOTE FILTER ADAPTER

This 90 deg. rotating remote oil filter adapter spins-on to 3/4"-16 thread with 2-5/8" seal stock filter locations and provides 1/2" N.P.T. in and out ports for plumbing a remote filter. It's unique design permits the two 90 degree inlet and outlet ports to be rotated. This simplifies hose and fitting connections for all applications. It is machined from billet aluminum and comes with all necessary hardware and O-Ring seals.

Standard Operating Specifications

Main Bearing Clearance .0023" -.0028"
Rod Bearing Clearance .0020" -.0025"
Crankshaft End Float .005"- .007"
Wrist Pin to Rod Clearance .0010"-.0012"
Wrist Pin to Piston Clearance .0010"-.0012"

Piston to Deck Distance .015" Below Deck (+/- .005")

Piston to Bore Clearance .0065" (+/-.0005")

Valve Spring Installed Height 1.900"

Intake Valve to Guide Clearance .0014"-.0016" Exhaust Valve to Guide Clearance .0018"-.0022"

Valve Lash 0 Lash plus 1/4 turn Pre-load

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2. Lubrication Priming Procedure

- 1. Fill engine with recommended oil. M-6007-572FT/RT both 8 quart with filter.
- 2. Hand rotate engine to cylinder #1 TDC firing or 0 degree position on balancer.
- 3. Remove distributor cap.
- 4. Mark rotor position on distributor housing.
- 5. Mark distributor housing and intake manifold interface.
- 6. Remove distributor.
- 7. Insert a 5/16" deep-well 6 point socket and long extension into distributor hole and engage the oil pump drive shaft.
- 8. Remove valve covers.
- 9. Rotate oil pump drive shaft counter clockwise with an electric drill until oil flow is visible from pushrods to the rocker arm in the rocker cover area.
- 10. Re-install valve covers.
- 11. Remove socket/extension from distributor hole.
- 12. Install distributor and align **both** rotor to distributor housing **and** distributor housing to intake manifold marks. Note: if distributor does not drop into place, gradually rotate oil pump drive with socket until it does. **Do not** force distributor into position.
- 13. Install distributor hold down.
- 14. Check oil level.
- 15. Set timing as recommended (total advance of 28° BTDC @ 4,000 rpm).
- 16. NOTE: engine must be primed after installation of remote filter or and oil cooler

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3. Bill of Materials

PART NUMBER	DESCRIPTION	REQ.
09024500	PISTON RING SET (136391)	1
2-454-67-2200	CONNECTING ROD SET	1
20-850	CANTON DIPSTICK & TUBE	1
2966	INTAKE MANIFOLD	1
388448-S58	MAIN STUD	1
388813-S	BALANCER BOLT	1
4-460-4500-2200	CRANKSHAFT	1
73615-16	ROCKER ARM 1.73:1	1
7AQ4.475-1C	9/16" x 4.475 12 POINT HEAD BOLT	10
7AQ5.500-1C	9/16" x 5.500 12 POINT HEAD BOLT	10
800-FPP	PISTON (COATED SKIRT)	8
83870	CARBURETOR	1
85801	DISTRIBUTOR / MELONIZED GEAR	1
AGSP32CA	SPARK PLUGS	8
AQW10,9/16" x	9/16" x 1.00 HEAD BOLT WASER	20
1.00 C15211	GASKET KIT	1
C3AZ-12270-A	DISTRIBUTOR CLAMP	1
C8SE-8508-B	WATER PUMP PLATE	1
CM-6731-FL1A	OIL FILTER	1
E6DZ-6700-A	FRONT COVER SEAL	1
EAD-6397-B	TRANS DOWEL	2
2/18/0007/8	TIVING BOWLE	_
EDC-6378-A	CRANK DAMPER WASHER	1
EOAZ-6626-B	OIL PUMP GASKET	1
F1TZ-6019-A	FRONT COVER	1
F3SZ-6278-A	CAM GEAR WASHER	1
F5TZ-6710-C	OIL PAN GASKET	1
FORD-CUSTOM5	CAMSHAFT	1
KAASE385	OIL PUMP	1
M-12259-C460	PLUG WIRE SET BLUE	1
M-6010-A460BB or	BARE BLOCK	1
A460XBB	0.4. 1.545. 400.4	_
M-6049-SCJA	CYL HEAD ASSY	2

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M-6268-B429	TIMING SET	1
M-6316-A521	CRANK DAMPER	1
M-6582-B460	VALVE COVER	1
M-6605-A429	OIL PUMP SHAFT	1
M-6622-FT460	OIL P/U TUBE FRONT SUMP	1
M-6675-FT460	FRONT SUMP OIL PAN	1
M-8501-C460	WATER PUMP	1
T8650803	PUSHROD EXHAUST 8.650"	8
T8225803	PUSHROD INTAKE 8.225'	8
1020-1	THERMOSTAT HOUSING GASKET	1
1021	FRONT COVER GASKET	1
1022	WATER PUMP GASKET	1
1023	WATER PUMP REAR PLATE	1
	GASKET	
1301	VALVE COVER GASKETS	2
45358	180° THERMOSTAT	1
42910-S	CAM PLATE BOLT	2
8038	TIMING POINTER	1
8047	DAMPER SPACER	1
80495	TIE BAR ROLLER LIFTERS	8
BUL2948	REAR MAIN SEAL	1
BS40032	REAR MAIN SEAL	1
CP460N	CAMSHAFT THRUST PLATE	1
CR808HPN STD	CONNECTING ROD BEARINGS	1
CR808HPN STD X	CONNECTING ROD BEARINGS +.001	0.5
E7TZ-8597-A	BY PASS HOSE	1
F-30	CAM BEARINGS	1
MB5650HP STD	MAIN BRGS	1
MB5650HP STD X		0.5
PK135	WOODRUFF KEY	1
PK-174	DAMPER KEY	1

Note: Piston Part #FPP-800 consists of the following parts:

COMPONENT PART #	COMPONENT DESCRIPTION	SOURCE
4.500	COATED PISTON	DIAMOND RACING PISTONS
015106	SPIROLOX	DIAMOND RACING PISTONS
PIA	PISTON PIN .990 8620 STEEL	DIAMOND RACING PISTONS

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4. Torque Specifications

Application	Torque (lb*ft unless otherwise	e noted) Recommended Lubricant	
Main nuts 1/2 inch	95-105	Engine oil	
Rod bolts	63	ARP Moly rod bolt lube	÷
Head studs into block	3-5	Loctite 242	
Head nuts	130	Engine oil	
Rocker studs	60-65	Loctite PFT	
Intake manifold bolts	30-35	Loctite 242	
Flywheel bolts	75-80	Loctite 242 or dry-seal	
Vibration damper bolt	85-90	Engine oil	
Oil pump to block	30-35	Loctite 242	
Oil pickup tube to main	n stud 28-35	Loctite 242	
Cam bolt	35	Loctite 242	
Cam retainer plate bolt	t 9-12	Loctite 242	
Oil pickup tube to oil pi	ump 12-18	Loctite 242	
Flywheel bolts Vibration damper bolt Oil pump to block Oil pickup tube to mair Cam bolt Cam retainer plate bolt	75-80 85-90 30-35 1 stud 28-35 35 t 9-12	Loctite 242 or dry-sea Engine oil Loctite 242 Loctite 242 Loctite 242 Loctite 242	ıl

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