



Test Monitoring Center

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Sequence IIIG Information Letter 04-1
Sequence No. 5
April 2, 2004

ASTM consensus has not been obtained on this information letter. An appropriate ASTM ballot will be issued in order to achieve such consensus.

TO: Sequence III Mailing List

SUBJECT: Revised Intake Manifold Gasket
Additional Allowable Sealing Materials

This Information Letter addresses specific parts and procedures pertaining to quality, consistency, performance, and accountability of test parts as part of the ongoing effort by the panel to ensure continual process improvement of the Sequence IIIG test.

Revised Intake Manifold Gasket

During the March 23, 2004, teleconference meeting of the Sequence III Surveillance Panel, the panel approved a motion to implement the use of a new intake manifold-to-cylinder head gasket in the Sequence IIIG test. This new gasket is a revised GM SPO part designed to help prevent oil leaks in the 3800 Series II engine, which is used in Sequence IIIG testing. A revised Table A2.1 is attached.

Additional Allowable Sealing Materials

During the January 20, 2004, teleconference meeting of the Sequence III Surveillance Panel, the panel approved a motion to allow the use of a new sealing material, in addition to the materials currently specified in the test procedure, in Sequence IIIG testing. One of the previous materials is no longer available via GM SPO and this new material supercedes that old material. At this time, the material is only available in tube form, but work is ongoing to secure a source of it in the more economical cartridge formats. A revised 7.6.3 is attached.

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Attachments

c: ftp://ftp.astmtmc.cmu.edu/docs/gas/sequenceiii/procedure_and_ils/IIIG/IL04-1.pdf

Distribution: Electronic Mail

7.6.3 Only GM Autocare Assembly Adhesive^{xx}, part number 12346141, Dow RTV Grade 3154 sealer^{yy}, or, Permatex Ultra Black Sealer, part number 24105, are allowable for use on the oil pan gasket and intake manifold gasket only. See Sequence IIIG Engine Assembly Manual section 4 sheet 13 and section 6 sheet 6.

^{xx} GM Autocare Assembly Adhesive is available from local GM dealers.

^{yy} Dow RTV Grade 3154 sealer is available from commercial sources.

^{zz} Permatex Ultra Black Sealer is available from commercial sources.

Table A2.1 Parts to be Replaced Every Test

PART DESCRIPTION	PART NUMBER
Arm, Rocker with Pivot Bearing	OHT3F-058-1
BEARING, KIT, ENGINE	OHT3F-042-2
KIT INCLUDES:	
BEARING, CONNECTING ROD, KIT, UPPER AND LOWER, OH-106 ASSY	3F042-01
MAIN BEARING KIT, OH101 ASSY, INCLUDES:	3F042-02
Bearing, Balance Shaft Front (part of 24502388)	SKF6205-2ZNRJEM
BEARING, MAIN, LOWER, #1 AND 3	OH-102
BEARING, MAIN, LOWER, #4	OH-103
BEARING, MAIN, LOWER, FLANGE, #2	OH-104
BEARING, MAIN, UPPER, FLANGE, #2	OH-105
BEARING, CAM BUSHING, POSITIONS 1 & 4	3F028-09
BEARING, CAM BUSHING, POSITIONS 2 & 3	3F028-10
Bolt, Camshaft Sprocket	24501366
Bolt, Cylinder Head, Long	25527831
Bolt, Cylinder Head, Short	25533811
Bolt, Flywheel	24505092
Bolt, Main Cap	24503056
Bolt, Main Cap, Side	24505576
Bolt, Rear Cover Housing	24503970
Bolt, Rocker Arm, Special Test	3F-058-02
Camshaft, Special Test, including Manganese-phosphate coating	OHT3F-008-8
Cap, Valve Spring Retainer	24502257
Chain, Timing	24504668
Clip, Retainer, Piston Pin	OHT3F-012-1
COOLER, OIL, NICKEL PLATED, BYPASS CLOSED	OHT3F-030-2
Damper, Timing Chain (includes bolt, retaining ring)	24503893
FILTER, PRO TEC	OHT3F-057-3
Gasket kit, Intake Manifold lower	89017399
Gasket, Cylinder Head, left	24503802
Gasket, Cylinder Head, right	24503801
Gasket, Front Cover	24502252
Gasket, Oil Filter Adapter	25534742
Gasket, Oil Pan	24502397
Gasket, Oil Suction Tube	24501259
Gasket, Rear Cover Housing	24507388
Gasket, Rocker Cover	25532619
Gasket, Water Outlet	24502433
Gasket, Water Pump	24501565
Head, Cylinder	24502260
Key, Camshaft Sprocket	24500618
Key, Valve Stem Keeper	1016634
Lifter, Test ACI w/Flat (25338738A)	OHT3F-029-3
PIN, PISTON WRIST, PKG. OF 6	OHT3F-014-1
PISTON, TEST, RUNS 1 & 2, GRADE 12	OHT3F-053-1

Revised Sections of Sequence IIIG Test Procedure

PART DESCRIPTION	PART NUMBER
PISTON, TEST, RUNS 3 & 4, GRADE 34	OHT3F-054-1
PISTON, TEST, RUNS 5 & 6, GRADE 56	OHT3F-055-1
PLATE, CAMSHAFT THRUST, .1520" THICKNESS	OHT3F-011-2
Plug, Engine Block Core Hole	24500867
Plug, Cylinder Head Core Hole	3835577
Plug, Cylinder Head Cup	9427698
Plug, Engine Block, Oil Gallery	24500867
Plug, Ignition Spark	AC R42LTSM
Plunger, Oil Relief	25530949
PUSHROD, SPECIAL LENGTH, PKG. OF 12	OHT3F-007-1
RETAINER CLIP, PISTON PIN PKG. OF 12	OHT3F-012-1
1 EA. RING, PISTON, RUN 1, ENGINE SET	OHT3F-050-RUN1
1 EA. RING, PISTON, RUN 2, ENGINE SET	OHT3F-050-RUN2
1 EA. RING, PISTON, RUN 3, ENGINE SET	OHT3F-051-RUN3
1 EA. RING, PISTON, RUN 4, ENGINE SET	OHT3F-051-RUN4
1 EA. RING, PISTON, RUN 5, ENGINE SET	OHT3F-052-RUN5
1 EA. RING, PISTON, RUN 6, ENGINE SET	OHT3F-052-RUN6
ROCKER ARM ASSEMBLY (Includes: 3F058-02)	OHT3F-058-1
Rod, Connecting	24501696
Seal, Crankshaft Front Oil (Lip Seal)	24504098
Seal, Crankshaft Rear Oil (Lip seal)	25534760
SEAL, EXHAUST VALVE STEM	OHT3F-061-1
SEAL, INTAKE VALVE STEM	OHT3F-060-1
Spring, Oil Relief Valve	1262505
SPRING, VALVE Special Test (COLOR CODE YELLOW)	OHT3F-059-5
Sprocket, Camshaft	24505306
Valve, Exhaust (STD)	24507423
Valve, Intake (STD)	12569550