



Test Monitoring Center

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Sequence IIIG Information Letter 05-2

Sequence No. 9

November 29, 2005

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: 1. Revision to Rater Workshop Attendance Requirements
2. Acceptance of Torque Wrench ETW-E180

1. At the November 8, 2005 meeting of the Sequence III Surveillance Panel, a motion was approved to require that in order to rate Sequence IIIG parts, a rater must attend a CRC Light Duty Rating Workshop on an annual basis and generate data that meets the CRC's definition of Blue, Red, or White. Provisions for raters who are unable to attend the workshop have also been delineated. This change is effective with the next scheduled CRC Light Duty Rating Workshop. Section 13.4.3.4 of Draft 2D of the Sequence IIIG procedure has been revised to reflect this change.
2. At the November 8, 2005 meeting, the panel agreed to allow the use of a torque wrench from a different supplier, since the SPS torque wrench is no longer available. Sections 10.7.5.1 and 10.7.5.2 have been revised to include the ETW-E180 torque wrench. A new footnote has been added for supplier information. This change is effective the date of this information letter.

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Attachments

c: ftp://ftp.astmtmc.cmu.edu/docs/gas/sequenceiii/procedure_and_ils/IIIG/IL05-2.pdf

Distribution: Electronic Mail

10.7.5.1 *Main Bearing Cap Bolts*—Do not use air tools on bolts to seat the main bearing caps in the engine block. Use a rubber or plastic mallet to seat the main bearing caps to avoid misalignment and damage to the engine block. Apply build up oil to the threads and to the surfaces of the bolts that contact the main bearing caps. In order to prevent hydraulic lock, do not apply oil to the threads and to the tapped holes in the cylinder block. Install the bolts finger-tight and tighten them further with the SPS Torque Sensor I^{xx} or Ingersoll-Rand ETW-E180^{xx} torque wrench only, working from the center out in a crisscross pattern. See the Sequence IIIF Engine Assembly Manual for torquing instructions. (See Section 1-Sheet 6 for honing and Section 3-Sheet 6 for final assembly.)

10.7.5.2 *Cylinder Head Bolts*—The cylinder head bolts, GM Part No. 25527831 (long) and 25533811 (short), are of special design for yield applications and shall only be installed using the SPS Torque Sensor I or Ingersoll-Rand ETW-E180 torque wrench. See the Sequence IIIF Engine Assembly Manual for installation instructions. Replace the bolts after each test. (See Section 1-Sheet 7 for honing and Section 5-Sheet 3 for final assembly.)

13.4.3.4 All raters of Sequence IIIG engine parts shall attend a CRC Light Duty Rating Workshop every twelve months \pm 30 days and generate data that meets CRC's definition of Blue, Red or White. If a rater is unable to attend a CRC Light Duty Workshop for reasons beyond the rater's control, the rater shall attend the very next CRC workshop (Heavy Duty or Light Duty). If the rater does not attend the very next CRC workshop, the rater can no longer rate Sequence IIIG reference and non-reference oil test engine parts until after a CRC Light Duty Rating Workshop has been successfully attended.

^{xx}The sole source of supply of the apparatus known to the committee at this time is Ingersoll-Rand Assembly Solutions, 510 Hester Drive, White House, TN 37188