

TELEDYNE CONTINENTAL[®] AIRCRAFT ENGINE
SERVICE BULLETIN
Compliance Will Enhance Safety

CATEGORY 3

SB94-13
Supersedes M87-7
FAA APPROVED

SUBJECT: PISTON RING SET, PART NUMBER 649226

PURPOSE: To notify customers of the possibility of oversize rings in standard ring sets.

COMPLIANCE: Prior to utilization of subject ring sets.

MODELS

AFFECTED: E-185, E-225, O-470, IO-470 and TSIO-470 model engines.

It has been noted that some part number 649226 ring sets may contain rings that are .015" oversize. The affected ring sets are identified by the date code "CE" (March 1994), stamped adjacent to the ring set part number on the package. Piston rings are individually marked on the upper surface, either STD (standard), .005, .010 or .015.


These ring sets are also contained in cylinder kit part numbers 653443A3, 653443A3BP, 653443A5, 653443A5BP, 653444A4, 653444A4BP, 653455A2 and 653455A2BP. These affected cylinder kits which may be in customer inventory, must be inspected for suspect ring sets. Cylinder kits found to contain ring sets with oversize rings must have the ring set returned to TCM through the TCM Distributor from which the kit was purchased.

All part number 649226 ring sets in customer inventory must be inspected for date code "CE" and those identified as such must be inspected to determine that all rings in the set are marked "STD". Any ring set found to contain oversize rings must be returned to TCM through the TCM Distributor from which the ring set was purchased.

Standard cylinder bores that are operated using oversize piston rings will exhibit cylinder wall scoring and an increase in oil consumption due to improper ring end gaps. Suspect cylinders should be inspected with a borescope or other suitable method for signatures of scoring. Cylinders that have abnormal scoring signatures will require removal and repair or replacement. Cylinder removal and installation must be accomplished in accordance with the applicable TCM Overhaul Manual.

During piston and cylinder build up, the piston ring end gaps and side clearances must be verified for proper values prior to final assembly. These required specifications are listed in the "Table of Limits" section of the applicable TCM Overhaul manual and TCM service bulletin M88-11 or current revision as applicable.

Compliance with this service bulletin is covered by the TCM Gold Medallion Warranty Policy, subject to its terms and conditions.

ISSUED			REVISED			 TELEDYNE CONTINENTAL MOTORS P.O. Box 90 • MOBILE ALABAMA 36601 (205)-438-3411	PAGE NO	REVISION
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