

service bulletin

M78-9
Supersedes M66-4
FAA-DER Approved

23 August 1978

TO: Distributors, Dealers, Aircraft Engine Overhaul Facilities, Owners and Operators of Teledyne Continental Motors' Aircraft Engines.

SUBJECT: CRANKCASE, CRANKSHAFT AND BEARING APPLICATIONS

MODELS
AFFECTED: All O-470, IO-470, IO-520, TSIO-470 and TSIO-520 Engines Referenced in this Bulletin.

Over the years, there have been several changes to the crankcase, crankshaft and bearing combinations used with various engine models. The following charts have been compiled to assist the customer in identifying the proper combination for his engine.

SPECIAL NOTE

ALTHOUGH THE STUDDING ASSEMBLY PART NUMBER ON THE PHASE 2 STYLE CRANKCASES REMAINS, IN MOST INSTANCES, THE SAME AS THE PHASE 1 STYLE, THE ACTUAL MACHINING OF THE CRANKCASE IS DIFFERENT. FOR THIS REASON, IT IS IMPERATIVE TO MAKE ABSOLUTELY CERTAIN WHICH CRANKCASE YOU ARE WORKING WITH.

PHASE 1

Crankcases were machined for flanged type thrust bearings for O-470 and IO-470 engines.

PHASE 2

Crankcases for above listed models are machined to accommodate four thrust washers at the front mains. In addition, the rear main bearing was moved back .060 because of new crankshaft on O-470 and IO-470 engines as listed in Service Bulletin M74-12. Many of the new crankshafts have narrower rod bearings, smaller lightner holes and thicker cheeks. Because of the narrower crankpin bearings, it is necessary to use different connecting rods and rod bearings.

PHASE 3

Main bearing journals have been narrowed, which required relocation of bearing tangs. Identification can be made by way of new casting part number CA642360 and CA642361.

CAUTION

BECAUSE OF THE CHANGE IN THE NEWER CRANKSHAFT, YOU MUST BE CERTAIN THAT WHEN INSTALLING THIS CRANKSHAFT IN THE PHASE 1 STYLE CRANKCASE, YOU INSERT TWO PIECES OF SERVICE BEARING, PART NO. 633334, AT THE REAR MAIN CRANKCASE LOCATION.

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The Top Books of the Year Matory Service Bulletins Cessna The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have captivated audiences this year. Matory Service Bulletins Cessna : Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Matory Service Bulletins Cessna : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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