

# service bulletin

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10 August 1989

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

SUBJECT: **EXHAUST GAS TEMPERATURE (E.G.T.) RECOMMENDATIONS FOR STANDARD ENGINES**

The proper use of E.G.T. for assisting the operator with fuel management and as a diagnostic tool is considered by Teledyne Continental Motors as acceptable and often times desirable. The following is prepared as an instructional aid, (when specific airframe manufacturers instructions are not available) to assure that when such equipment is installed, it is properly used.

- A. Take-off and climb power settings are normally performed at full rich mixture to enhance cylinder cooling compensating for limited available cooling air flow. The exception to this rule is in those cases where fuel systems are not adequately compensated for altitude. Some leaning is then permissible but only to avoid engine roughness or power loss while still keeping the fuel flow within rich limits.
- B. For cruise power settings, leaning is recommended to obtain optimum aircraft range at powers of approximately 75% or less. **Best Power** can be defined as that mixture setting that results in maximum indicated air speed, and which produces E.G.T. values from 100 to 150 degrees F. rich of peak at a given M.P. and R.P.M. Additional gains can be realized with fuel management below best power from the standpoint of fuel economy and extended aircraft range. This is the leaning area of most interest to the manufacturer and operator.

## Exhaust Temperature Sensing Equipment

Various types of equipment are available today and differ somewhat in their characteristics. The most significant difference appears to be whether they are sensing temperature in the exhaust system at one location (single point) or at several locations (multiple point). **When specific installation instructions are not available from the airframe manufacturer, install E.G.T. systems in conformance with the following recommendations:**

- A. **Single Point E.G.T.** This unit is primarily useful for fuel management only and the location of the sensor in the exhaust system is of importance relative to recommended operational values of E.G.T.

In general, the probe should be located in the exhaust of the leanest cylinder and approximately three inches from the cylinder exhaust flange.

(continued)

# Tcm Service Bulletin 03 3

**Padhraic Smyth**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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**FAA Airworthiness Directive** ,1987 Owner Assisted Aircraft Maintenance Daniel MacDonald,2011-07-21 From the back cover Have you ever wanted to participate in your aircraft s maintenance but were afraid to try Are the rising costs of flying keeping you on the ground This illustrated manual is written for mechanically inclined Part 91 pilot owner operators that are ready to learn more about their airplanes It describes common maintenance activities that are approved for pilots to perform by the FAA along with a number of other projects that you might wish to complete under the supervision of a certified mechanic The book focuses on common legacy single engine aluminum aircraft built from the 1940s through today Whether changing your oil installing new tires or checking engine compression this 160 pages of text and photos provides procedures and tips gathered over the past 27 years **The AOPA Pilot** ,2004 *Japan Labor Bulletin* ,1998 Lemon-Aid Used Cars and Trucks 2009-2010 Phil Edmonston,2009-02-16 For the first time in one volume Phil Edmonston Canada s automotive Dr Phil covers all used vehicles packing this guide with insider tips to help the consumer make the safest and cheapest choice possible from cars and trucks of the past 25 years Net Economic Value of Upland Game Hunting in Idaho John S. Young,1987 *Internal Revenue Cumulative Bulletin* United States. Internal Revenue Service,2005 *Aviation Maintenance Alerts* ,2000 *Internal Revenue Bulletin* United States. Internal Revenue Service,2003 *Lemon Aide Guide 2005* Phil Edmonston,2004 **Lemon-Aid New Cars and Trucks 2012** Phil Edmonston,2011-12-03 Offers advice for prospective buyers of cars and trucks reveals information on secret warranties and confidential service bulletins and tells how to complain and get results **Safety Recommendation** ,1993 *Internal Revenue Cumulative Bulletin 2002-3: 2002 Legislation, Text of Laws and Committee Reports* , Internal Revenue

Cumulative Bulletin 2007-2, July-December Internal Revenue Service, 2009-09 This bulletin presents announcements of official rulings and procedures treasury decisions executive orders tax conventions legislation and court decisions It also contains other items of general interest intended to promote a uniform application of the tax laws     Lemon-Aid Used Cars and Trucks 2010-2011 Phil Edmonston, 2010-05-11 Lemon Aid Used Cars and Trucks 2010-2011 shows buyers how to pick the cheapest and most reliable vehicles from the past 30 years of production This book offers an exposé gas consumption lies a do it yourself service manual an archive of service bulletins granting free repairs and more     **TOP Bulletin** ,1980     **The Routledge Handbook of Irish Criminology** Deirdre Healy, Claire Hamilton, Yvonne Daly, Michelle Butler, 2015-12-14 The Routledge Handbook of Irish Criminology is the first edited collection of its kind to bring together the work of leading Irish criminologists in a single volume While Irish criminology can be characterised as a nascent but dynamic discipline it has much to offer the Irish and international reader due to the unique historical cultural political social and economic arrangements that exist on the island of Ireland The Handbook consists of 30 chapters which offer original comprehensive and critical reviews of theory research policy and practice in a wide range of subject areas The chapters are divided into four thematic sections Understanding crime examines specific offence types including homicide gangland crime and white collar crime and the theoretical perspectives used to explain them Responding to crime explores criminal justice responses to crime including crime prevention restorative justice approaches to policing and trial as well as post conviction issues such as imprisonment community sanctions and rehabilitation Contexts of crime investigates the social political and cultural contexts of the policymaking process including media representations politics the role of the victim and the impact of gender Emerging ideas focuses on innovative ideas that prompt a reconsideration of received wisdom on particular topics including sexual violence and ethnicity Charting the key contours of the criminological enterprise on the island of Ireland and placing the Irish material in the context of the wider European and international literature this book is essential reading for those involved in the study of Irish criminology and international and comparative criminal justice

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