

Horizon Instruments, Inc.
600 South Jefferson Street, Unit C
Placentia, CA 92870
Phone (714) 524-1919 Fax (714) 524-5937
Supplement Number: 1

FAA-Approved
Airplane Flight Manual Supplement
For
The New Piper Aircraft, Inc. (Piper Aircraft Corporation)
PA28-140, PA28-150, PA28-151, PA28-160, PA28-161, PA28-180,
PA28-235, PA28-236, PA28R-180, PA28-181, PA28R-200, PA28-201,
PA28-201T, PA28RT-201, and PA28RT-201T Aircraft
Ref: Type Certificate: 2A13

Airplane Reg. No. N6527J Airplane S/N 28-4965

This supplement must be attached to the applicable FAA Approved Airplane Flight Manual when the airplane is modified by the installation of a Horizon Instruments Inc.'s Model P-1000 Electronic Engine Digital Tachometer in accordance with STC SA5842NM.

The information contained in this document supplements or supersedes the basic manual only in those areas listed. For limitations, procedures and performance information not contained in this supplement, consult the basic Airplane Flight Manual.

FAA APPROVED:

Patrick Power

Manager, Flight Test Branch, ANM-160L
Federal Aviation Administration
Los Angeles Aircraft Certification Office
Transport Airplane Directorate

Date: 10-19-05

Original Approval Date: September 14, 1992

Horizon Instruments, Inc.
 600 South Jefferson Street, Unit C
 Placentia, CA 92870
 Supplement Number: 1

AFM Supplement to
 Piper PA28 Series
 (See AFMS page 1 for model listing)
 FAA STC SA5842NM

Revision Number	Pages Attached	Description	FAA Approved
--	1-8	Original Issue	<u>Donald Armstrong</u> Mgr: Flight Test Branch, ANM-160L FAA, Los Angeles, ACO Transport Airplane Directorate Date: <u>9/14/1992</u>
A	1-8	Addition of -403, -602, -603, -608, and -406 Tachometers, revision of headers and footers	<u>Donald Armstrong</u> Mgr: Flight Test Branch, ANM-160L FAA, Los Angeles, ACO Transport Airplane Directorate Date: <u>1/04/1993</u>
B	1-7	Minor text and font changes and new address listed. Added table of contents. Added new part number due to AD 2002-09-08 listing new restricted range marking. Refer to Tachometer Part Number P100-070-463-00 for further details.	<u>Thomas A. Enyart</u> Manager, Propulsion Branch ANM-140L FAA, Los Angeles ACO Transport Airplane Directorate Date: <u>5/02/2003</u>
1	1-7	Reissue of complete supplement for Horizon Instruments, Inc. address change and several minor editorial revisions	<u>Patrick Power</u> Manager, Flight. Test Branch FAA, Los Angeles ACO Transport Airplane Directorate Date: <u>10-18-05</u>

Section I. General: No Change

Section II. Limitations:

This table lists each engines operating range by the lowest RPM within the operating range. Ranges are listed in order from the highest (engine Red-line) on the left side of the table to the lowest on the right side. Note that an RPM range with no colored marking is denoted as a black, or "BLK", range.

RPM ARC PLACARDING									
Tachometer Part Number	Top Arc		Arc 2		Arc 3		Arc 4		C Y L
	RPM	COLOR	RPM	COLOR	RPM	COLOR	RPM	COLOR	
P100-070-401	<u>2700</u>	RED	<u>2699</u> 2200	GRN	<u>2199</u> 2000	RED	<u>1999</u> 500	GRN	4
P100-070-402	<u>2700</u>	RED	<u>2699</u> 2350	GRN	<u>2349</u> 2150	YEL	<u>2149</u> 500	GRN	4
P100-070-403	<u>2700</u>	RED	<u>2699</u> 2650	YEL	<u>2649</u> 500	GRN	----	----	4
P100-070-463 [⊃]	<u>2700</u>	RED	<u>2699</u> 2350	GRN	<u>2349</u> 2000	RED	<u>2099</u> 500	GRN	4
P100-070-407	<u>2700</u>	RED	<u>2699</u> 1950	GRN	<u>1949</u> 1500	YEL	<u>1499</u> 500	GRN	4
P100-070-408	<u>2700</u>	RED	<u>2699</u> 500	GRN	----	----	----	----	4
P100-070-602	<u>2400</u>	RED	<u>2399</u> 500	GRN	----	----	----	----	6
P100-070-603	<u>2575</u>	RED	<u>2574</u> 500	GRN	----	----	----	----	6
P100-070-608	<u>2700</u>	RED	<u>2699</u> 500	GRN	----	----	----	----	6
P100-070-609	<u>2575</u>	RED	<u>2575</u> 2200	GRN	<u>2199</u> 2000	YEL	<u>1999</u> 500	GRN	6

⊃ Note: Due to AD 2002-09-08, Amendment 39-12741, Docket No. 2000-NE-08-AD which supersedes AD 77-12-06R2, Amendment 39-3097; all Piper PA28R-200 aircraft models have a new restricted range marking on the tachometer. The engine tachometer face or bezel is to be remarked with a red arc for a restricted engine speed range between 2000 and 2350 rpm as per AD 2002-09-08. Refer to "Instruments Panel Modifications" (c) (1) & (c) (3).

PLACARDS

The face of the P-1000 tachometer is placarded with the Engine RPM Operating Range information that normally appears on the face of a mechanical tachometer. This includes the RED (restricted), YELLOW (cautionary or transient) and GREEN (normal) operation RPM ranges.