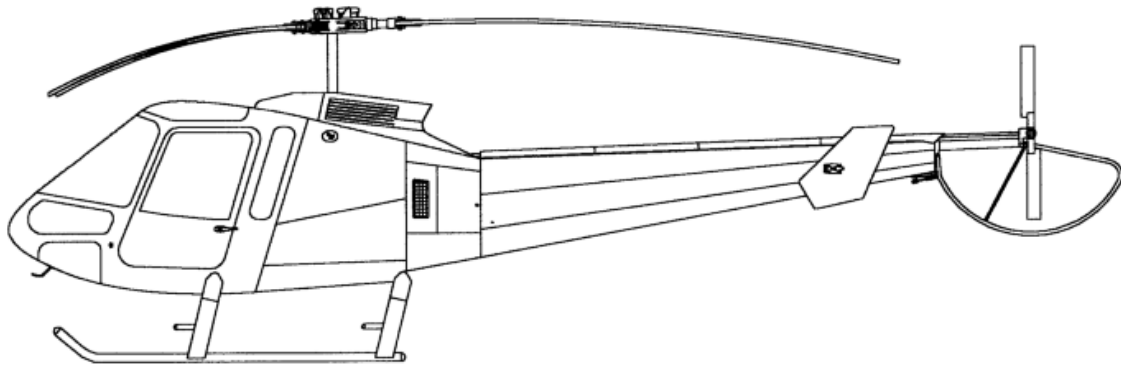


**ENSTROM TH-28/480 SERIES MAINTENANCE MANUAL**  
**SUPPLEMENT 6**  
**PARTIAL WIDE INSTRUMENT PANEL**



The Airworthiness Limitations section is FAA approved and specifies maintenance required under 14 CFR §§ 43.16 and 91.403 unless an alternative program has been FAA approved.

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## ENSTROM TH-28/480 SERIES MAINTENANCE MANUAL SUPPLEMENT 6

### RECOMMENDED CHANGE REPORT

This maintenance manual is prepared and distributed by The Enstrom Helicopter Corporation and is intended for use by personnel responsible for maintaining Enstrom TH-28, 480, and 480B helicopters. This manual is periodically revised. If, in the opinion of the user, any information has been omitted or requires clarification, please direct your comments to Enstrom via this form (duplicate) or other similar form. Send the recommended changes to:

The Enstrom Helicopter Corporation  
2209 22<sup>nd</sup> Street  
Menominee, MI 49858-3595

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Manual Identification: Enstrom TH-28/480 Series Maintenance Manual Supplement 6

Manual Date: November 15, 2010

Revision Number and Date: \_\_\_\_\_

Aircraft Model: \_\_\_\_\_

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Recommended Change:

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# ENSTROM TH-28/480 SERIES MAINTENANCE MANUAL SUPPLEMENT 6

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SECTION 1

INTRODUCTION

**1-1. Aircraft Effectivity**

A. The data presented in this TH-28/480 Series Maintenance Manual Supplement is applicable to all Enstrom 480B model helicopters equipped with the optional Partial Wide Instrument Panel, P/N 4220600-5.

**1-2. Supplemental Changes and Revisions**

A. Subsequent to the publication of the initial issue of this supplement, changes in the Partial Wide Instrument Panel, support concepts and procedures, as well as information developed by experience may affect the contents of this supplement. To ensure that coverage in the supplement continues to reflect such changes, revised information is released by one of the following methods:

1. Revision - A revision alters portions of the manual by replacement, addition, and/or removal of pages.
2. Reissue - A reissue of this supplement will occur when the amount of changes warrants complete reissue.
3. Service Information Letters (SIL) - Service Information Letters are used to transmit information, recommendations, and general service instructions to the aircraft owner/operator and maintenance personnel.
4. Service Directive Bulletins (SDB) - Service Directive Bulletins are used to direct the owner/operator and/or maintenance personnel to make mandatory inspections, changes, or modifications to the aircraft.

**1-3. Application of Warnings, Cautions, and Notes**

A. Throughout this supplement, it is necessary to highlight or emphasize important points to avoid injury to personnel, damage to equipment, or unnecessary confusion while performing maintenance procedures. The terms "WARNING", "CAUTION", and "NOTE" are used to draw attention to instructions or information deserving special consideration.

B.

**WARNING**

**Calls attention to use of materials, processes, methods, procedures, or limits that must be followed to avoid injury to personnel.**

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C.

**CAUTION**

**Calls attention to methods and procedures that must be followed to avoid damage to equipment.**

D.

**NOTE**

**Calls attention to information essential to highlight for clarification of procedures or to make a task easier.**

**SECTION 2**

**GENERAL INFORMATION**

**2-1. System Description**

A. The Partial Wide Instrument Panel accommodates a combination of traditional instruments and a Chelton EFIS system. The configuration provides the dual flight and navigation instrument functions, allows for both traditional instrument and EFIS training, and allows the Enstrom 480B model to retain flexible cabin seating capability.

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**SECTION 3**

**AIRWORTHINESS LIMITATIONS**

**3-1. Airworthiness Limitations**

A. The Airworthiness Limitations section is FAA approved and specifies maintenance required under 14 CFR §§ 43.16 and 91.403 unless an alternative program has been FAA approved.

B. All components of the Partial Wide Instrument Panel are “on condition”.

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**SECTION 4**

**SERVICING AND PERIODIC INSPECTIONS**

**4-1. Servicing**

A. No servicing is required other than that described as part of the required inspection in Paragraph 4-2.

**4-2. Periodic Inspections**

A. The following inspection checklist is intended as a guide for 100 hour/annual inspections for aircraft operating under normal conditions. More frequent inspections may be required should adverse operating conditions be encountered.

Date			
Signature			
Aircraft Registration Number			
Aircraft Serial Number			
<b>PARTIAL WIDE INSTRUMENT PANEL</b>			
<b>INITIAL EACH ITEM AFTER ACCOMPLISHMENT</b>			
<b>Inspect the following items every 100 hours or annually</b>			<b>INITIAL</b>
1. Inspect the upper panel of the instrument console, attachments, etc. for condition and security.			
2. Inspect the instrument console for condition and security of all instruments.			
3. Inspect the instrument console for condition and security of the console shrouds			
4. Ensure the legibility of all decals and placards.			

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SECTION 5

SYSTEM MAINTENANCE

NOTE

**Removal or installation of equipment will change the aircraft empty weight and empty weight c.g. These changes will be recorded on Form F-511-5, Basic Weight and Balance Record, as required (reference Enstrom TH-28/480 Series Maintenance Manual).**

**5-1. Layout – Partial Wide Instrument Panel**

A. See Figure 5-1 for the layout of the Partial Wide Instrument Panel.

**5-2 Access**

A. Gain access to the back of the instrument panel as follows:

(1) Remove the glare shield.

(2) Disconnect the ventilation ducts from the outlets if the ram air ventilation system is installed.

(3) Remove the screws securing the instrument panel cover and remove the cover.

**5-3. Removal**

A. Disconnect the battery and remove all electrical power.

B. Remove the glare shield and instrument panel cover.

C. Disconnect all electrical connectors and hoses from the equipment and instruments installed in the panel.

D. Remove the equipment and instruments installed in the panel.

NOTE

**Ensure all the wiring is identified and marked for reinstallation.**

E. Detach all terminal boards and the electrical control panel from the panel.

F. Remove the hardware securing the instrument panel to the center pedestal.

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## ENSTROM TH-28/480 SERIES MAINTENANCE MANUAL SUPPLEMENT 6

G. Remove the instrument panel.

### 5-4. Inspection

A. Inspect the instrument panel and braces for cracks, scratches, warpage, and security of installation.

B. Inspect the placards and decals for legibility.

C. Inspect the rheostats and switches for missing and loose knobs.

D. Inspect the glare shield for cracks and security of installation.

### 5-5. Repair

A. Replace damaged or worn mounting hardware.

B. Replace warped instrument panel braces.

C. Repair cracks I/A/W AC43.13-1B. Contact The Enstrom Helicopter Corporation Customer Service for detailed damage and repair limitations.

D. Replace missing or illegible placards.

### 5-6. Installation

A. Place the instrument panel into position and install the securing hardware.

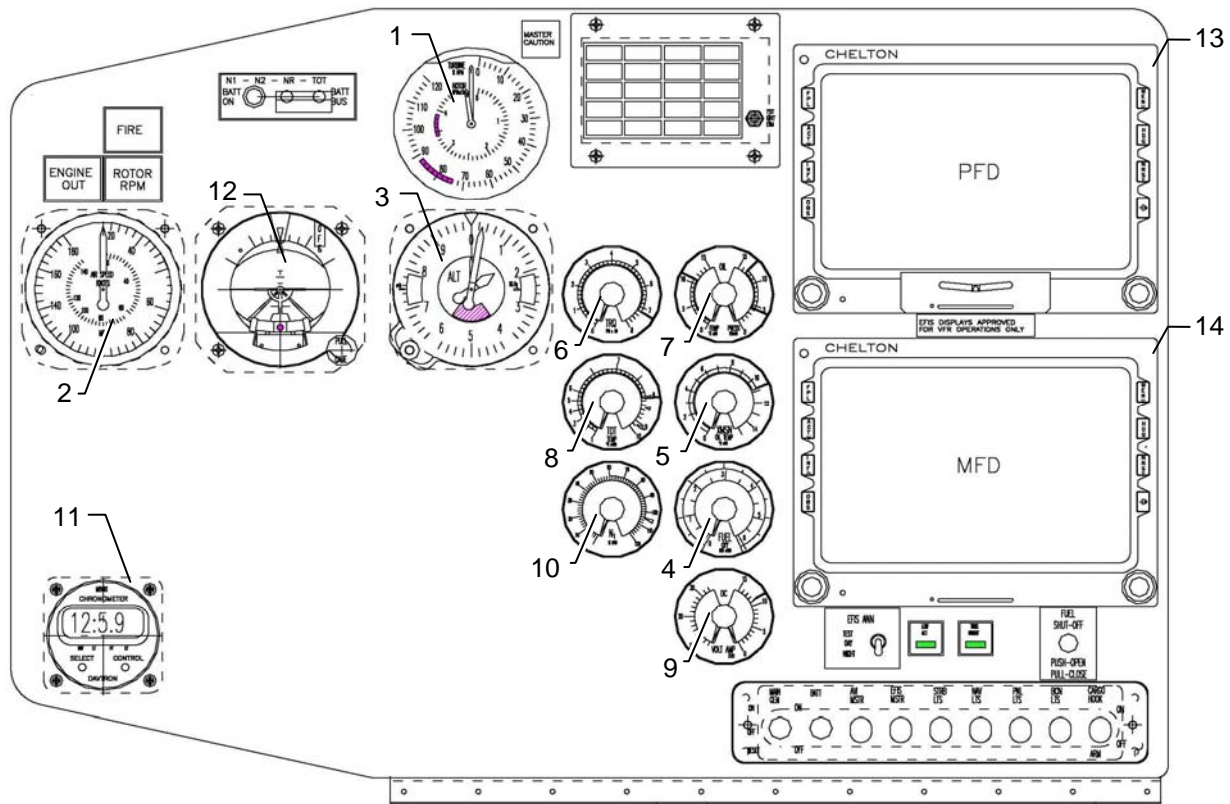
B. Attach the terminal boards and install the electrical control panel.

C. Install the equipment and instruments into the panel.

D. Connect the electrical connectors and hoses to the equipment and instruments in the panel.

E. Install the panel cover and glare shield.

# ENSTROM TH-28/480 SERIES MAINTENANCE MANUAL SUPPLEMENT 6



Item	Component	Part Number	Quantity
1	Rotor and Power Turbine Tachometer (Dual Tach)	ECD4053-6	1
2	Airspeed Indicator	ECD4050-1	1
3	Altimeter	5934PD-3 A.253	1
4	Fuel Quantity Indicator	ECD4038-5	1
5	Transmission Temp. Indicator	ECD4044-5	1
6	Torque Indicator	ECD4043-7	1
7	Engine Oil Temp./Press. Indicator	ECD4035-5	1
8	TOT Indicator	ECD4044-5	1
9	Volt/Amp Indicator	ECD4041-9	1
10	Gas Producer Tachometer (N <sub>1</sub> Tach)	ECD4042-7	1
11	Clock	800-28V-BAT (or 800-28V-NVG-BAT)	1
12	Attitude Gyro	RCA26BK-2-8	1
13	Chelton EFIS PFD	401-045500-0101	1
14	Chelton EFIS MFD	401-045500-0101	1

**Figure 5-1. Partial Wide Instrument Panel Layout**

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