

SECTION 3 ENGINE INDICATION SYSTEM



NOTE: Refer to the Aircraft Flight Manual (AFM) for limitations.

The G1000 Engine Indication System (EIS) displays critical engine, electrical, fuel, and other system parameters on the left side of the Multi Function Display (MFD) during normal operations (Figure 3-1). EIS information can be fully expanded to an entire page (EIS - Engine Page) using the **ENGINE** Softkey. In Reversionary Mode, the displays are re-configured to present Primary Flight Display (PFD) symbology together with the EIS.

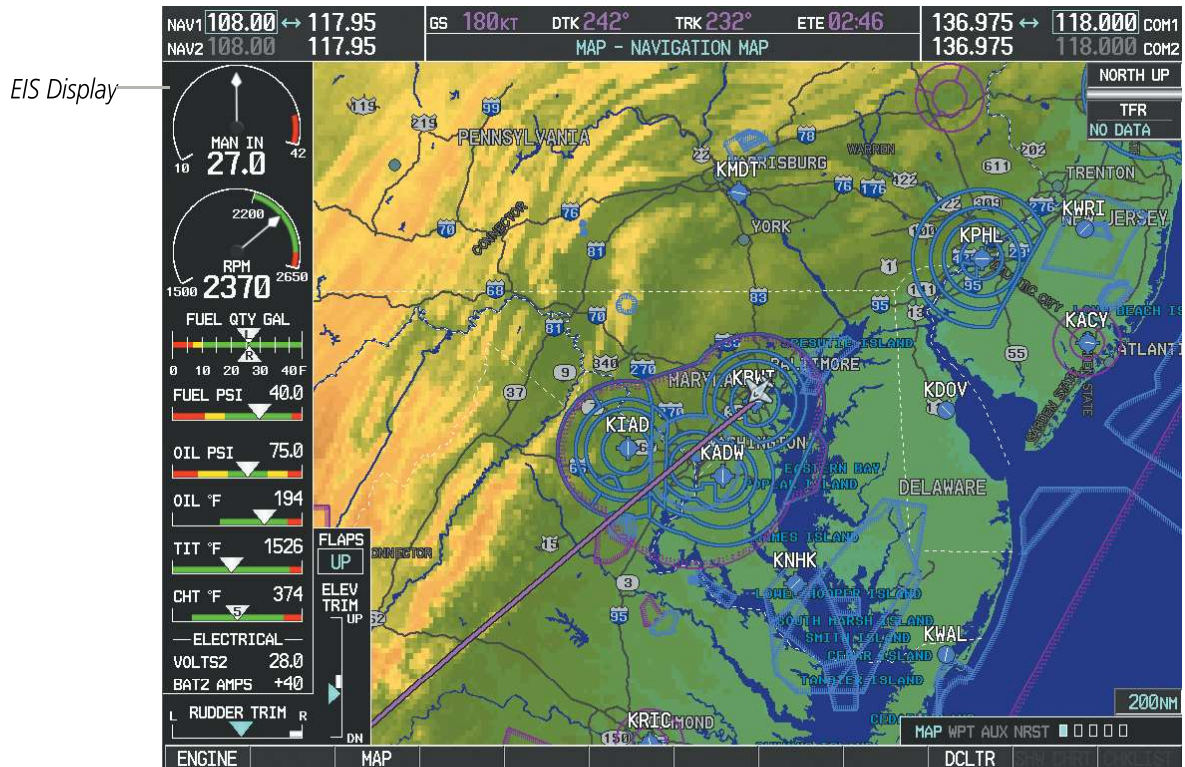


Figure 3-1 MFD (M20M)

Green bands on the instruments indicate normal ranges of operation; yellow and red bands indicate caution and warning, respectively. White or uncolored bands indicate areas outside of normal operation not yet in the caution or warning ranges. When unsafe operating conditions occur, the corresponding readouts flash to indicate cautions and warnings. If sensory data to an instrument becomes invalid or unavailable, a red “X” is displayed across the instrument.

EIS Instruments - Normal Mode

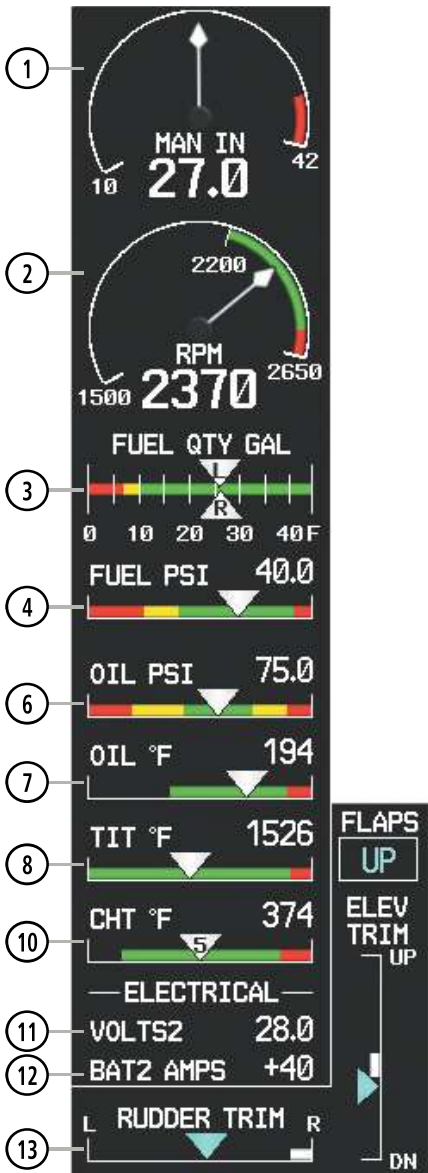


Figure 3-3 EIS Strip Normal (M20M - Turbocharged)

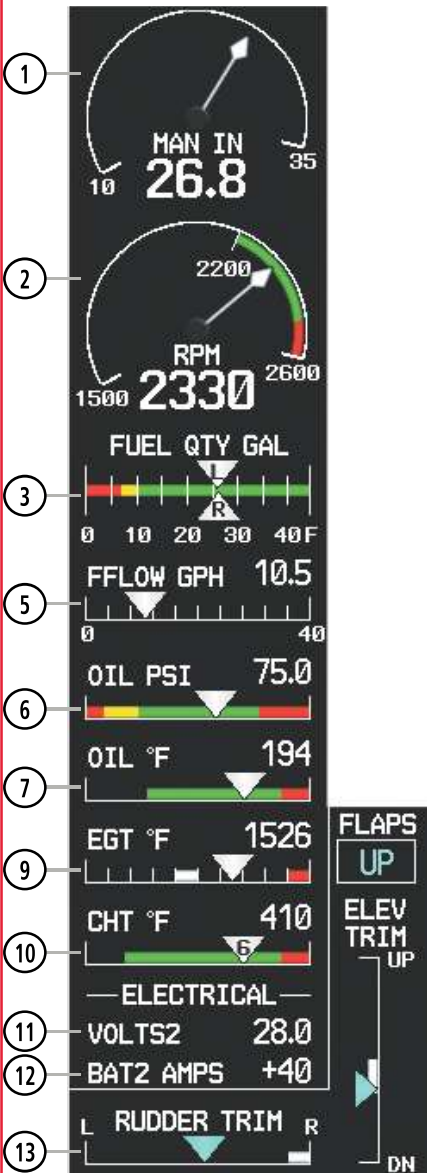


Figure 3-4 EIS Strip Normal (M20R - Normally Aspirated)

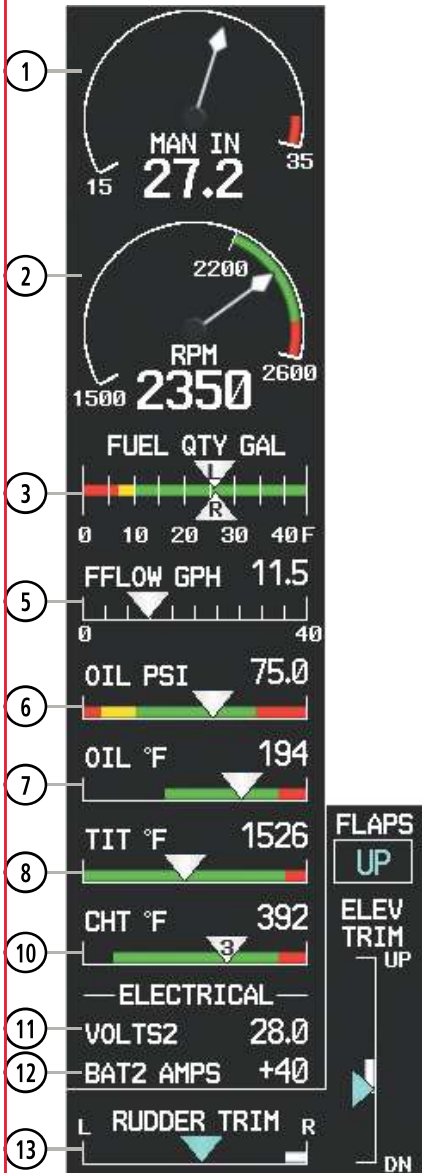


Figure 3-5 EIS Strip Normal (M20TN - Turbocharged)

EIS Instruments -
Lean Mode

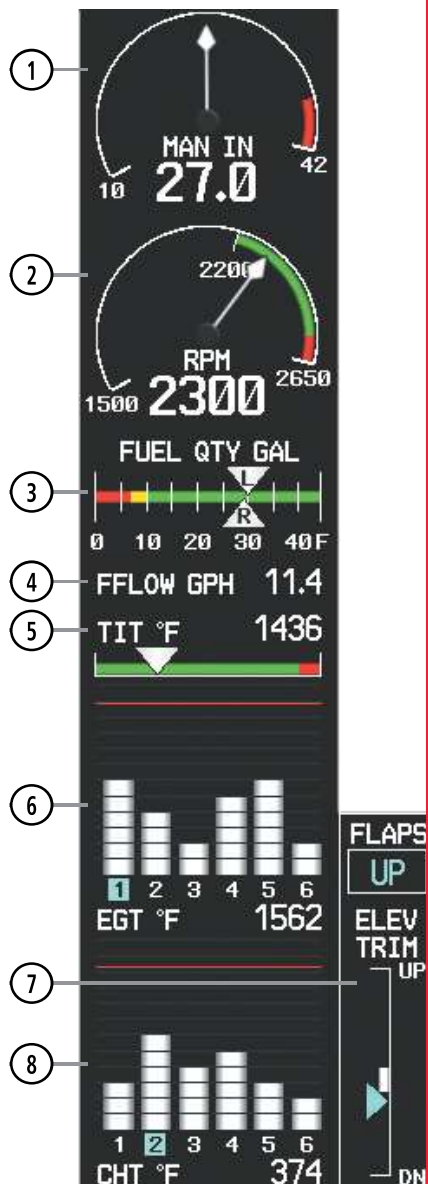


Figure 3-14 Lean Display
(M20M - Turbocharged)



Figure 3-15 Lean Display
(M20R - Normally Aspirated)

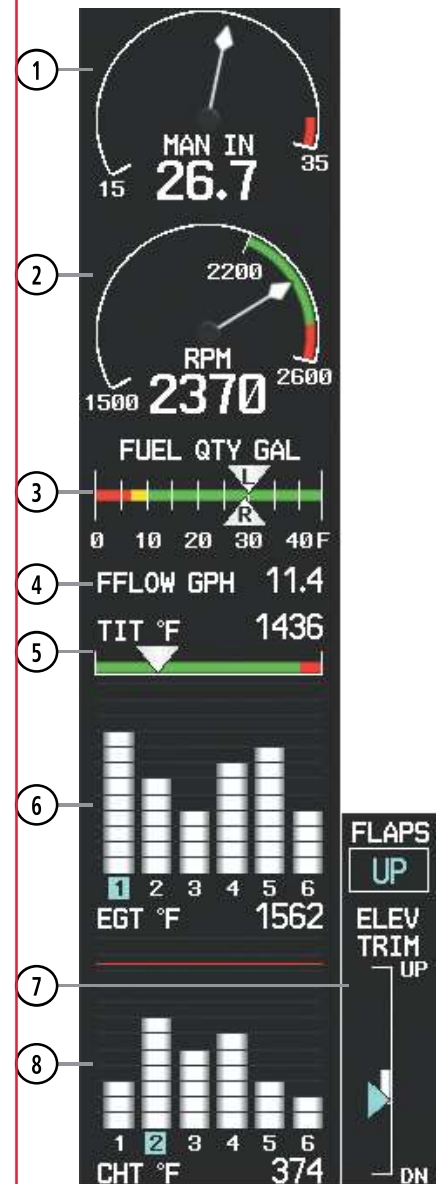


Figure 3-16 Lean Display
(M20TN - Turbocharged)

- ⑪ **Turbine Inlet Temperature** (TIT °F) Displays the temperature at the turbine inlet in degrees Fahrenheit (°F) (M20TN only)
- ⑫ **Voltmeter** (VOLTS1 or VOLTS2) Displays the bus voltage for the selected battery
- ⑬ **Ammeter** (BAT1 AMPS or BAT2 AMPS) Displays the battery amperage for the selected battery
- ⑭ **Trim/Flaps Group** (ELEV TRIM, RUDDER TRIM, FLAPS) Elevator and rudder trim are displayed on slide bars; the white portions of the bars represent takeoff trim ranges
Flap position (UP, T/O, DN) is denoted; when the flaps are in transit between positions, /// is displayed (Figure 3-2)

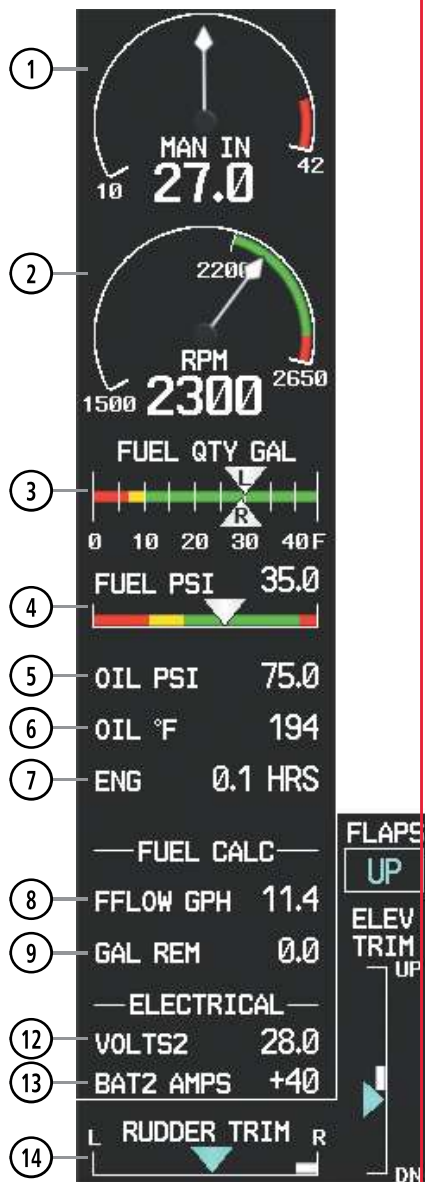


Figure 3-17 System Display
(M20M - Turbocharged)



Figure 3-18 System Display
(M20R - Normally Aspirated)

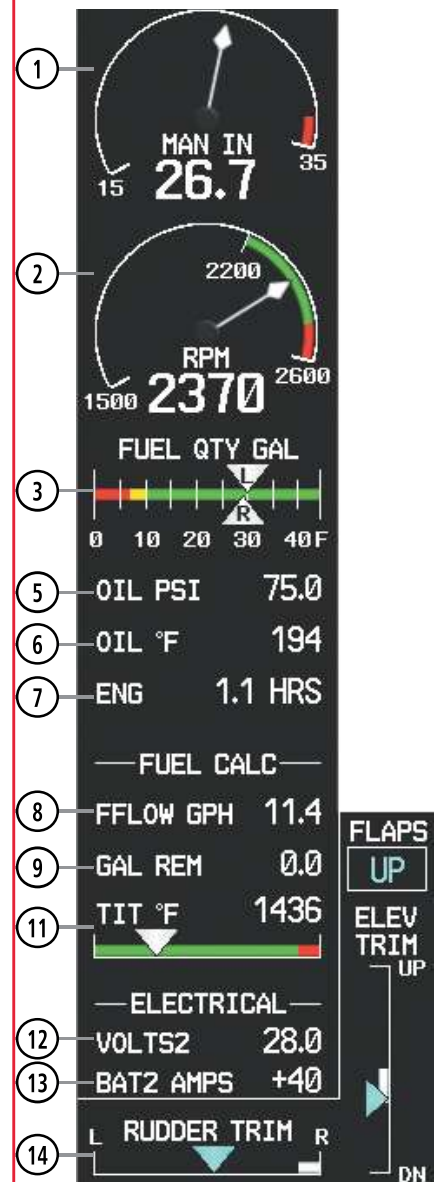


Figure 3-19 System Display
(M20TN - Turbocharged)

EIS Instruments -
System Mode

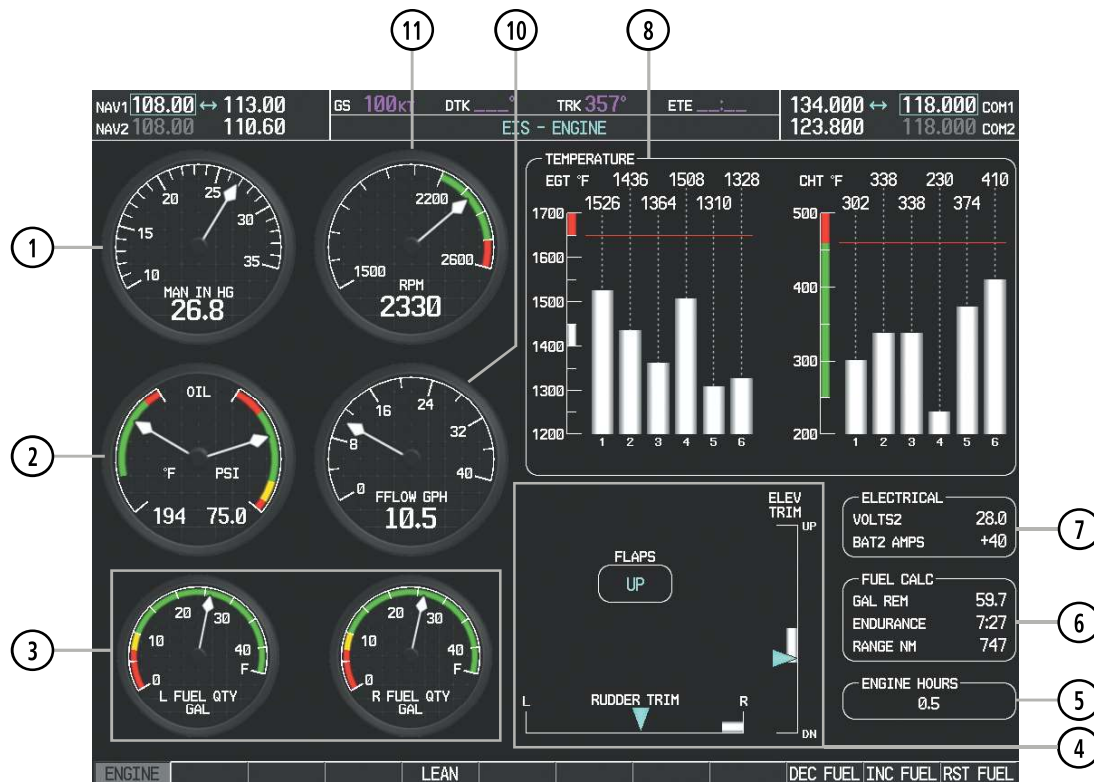


Figure 3-8 Engine Page (M20R - Normally Aspirated)



Figure 3-9 Engine Page (M20TN - Turbocharged)