

Section 14 - Alarm Limits

Factory Set Default Limits—Non-Primary

JPI conservatively sets the default alarm limits below Lycoming and Continental recommendations.

<i>Parameter</i>	<i>Default Low Limit</i>	<i>Default High Limit</i>	<i>Alarm Example</i>
CHT		450°F* 230°C	465 CHT
OIL	90°F 32°C	230°F* 110°C	280 OIL
TIT		1650°F* 900°C	I 720 TIT
CLD		-60°F/min. -33°C/min.	-65 CLD
DIF		500°F 280°C	525 DIF
BAT, 24 V	24V	32V	22 .4 BAT
BAT, 12 V	12V	16V	I7.6 BAT
MAP		32 inches	46.3 MAP
LO FUEL	45 min		00.20 H.M
LO TIME	10 gal, kg, ltr, lbs		7.2 REM

The alarm limits may differ from those shown here, depending on your type of aircraft.

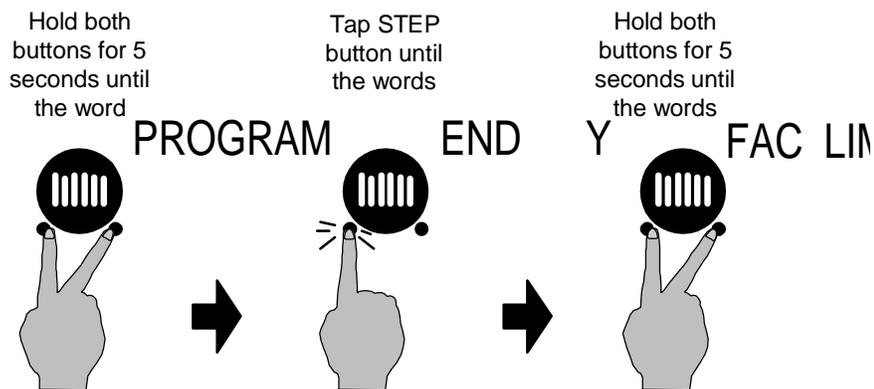
If you change the display between Fahrenheit and Celsius, newer instruments will automatically change the alarms to the factory limits.

When an alarm is displayed, tapping the **STEP** button will temporarily delete that parameter from the sequence for the next ten minutes. When an alarm is displayed, holding the **STEP** button until the word **OFF** appears will delete that parameter from the sequence for the remainder of the flight. On EDM-711 primary instruments the red alarm light cannot be extinguished as long as the alarm condition is present.

Changing the Alarm Limits/Tank Capacity

You may prefer to set your own alarm limits or change your usable fuel in the main tanks. Follow the procedure outlined below to change any of the factory default settings.

To start the alarm limit procedure, after power up, wait until the EDM completes its self test and is in the Automatic or Manual mode. If in doubt, tap the **STEP** button a few times. Then follow the steps depicted here:



The display will then sequence as shown in the chart below. Tap the **STEP** button to advance to the next item in the list. Tap the **LF** button to select alternate values of that item. *Hold* the **LF** button to increase a numerical value; *tap* the **LF** button to decrease a numerical value. The shaded areas in the chart below pertain only to the Fuel Flow Option.

Procedure for changing the alarm limits or main tank capacity:

<i>Tap STEP to next item</i>	<i>LF sequences through these value ranges</i>	<i>Description</i>
FAC? N	FAC? N ↔ FAC? Y	Restore factory defaults?
ENG F	ENG F ↔ ENG C	Select F or C degrees for all engine temps. You must also change the alarm limits to °F or °C.
I6.0 H BAT	I0.0 H BAT ... 35.0 H BAT	Battery high voltage limit, set in 0.5 volt increments.
I2.0 L BAT	8.5 L BAT ... 30.0 L BAT	Battery low voltage limit.
500 DIF	30 DIF ... 990 DIF	EGT difference limit, set in 10° increments.
450 H CHT	90 H CHT ... 500 H CHT	CHT high limit, set in 5° increments.*
-60 CLD	-5 CLD ... -200 CLD	Cooling limit, set in 5°/min. increments.
I650 TIT	650 TIT ... 2000 TIT	Also sets the maximum scale of the EGT and TIT bar graph.*
230 H OIL	40 H OIL ... 500 H OIL	Oil temperature high limit, set in 5° increments.*
90 L OIL	I0 L OIL ... 250 L OIL	Oil temperature low limit set in 5° increments

42.0 MAP	25MAP ... 90 MAP	MAP overboost alarm (EDM-800 only)
FUEL GAL	FUEL GAL⇒ FUEL KGS⇒ FUEL LTR⇒ FUEL LBS⇒	Selects the units in all parameters where fuel quantity or fuel rate is displayed
MAIN=50	MAIN=0 ... MAIN=999	Main tank capacity, in units selected
AUX? N	AUX? N↔AUX? Y	Y· Yes· aircraft has auxiliary tanks
AUX=0	AUX=0 ... AUX=250	Auxiliary tank capacity
MIN =45	MIN =0 ... MIN =60	Alarm limit in minutes for low time in tanks
REM =I0	REM =0 ... REM =200	Alarm limit for low fuel quantity in tanks, in units selected
CARB?	CARB? N ↔ CARB? Y	Y· Yes· carbureted engine. Setting 1-3, 3 being high filter
RECRD?	RECRD? Y ↔ RECRD? N	Long Term Memory. Y· only data recording. N· only real-time data output.
CYL=6	CYL=4 ... CYL=I 2	(EDM-800 only) Set the number of cylinders. See page 45 for exceptions.
HP = I 80	HP=60 ... HP=500	(EDM-800 only) Set the HP constant
I 4.90 = EC	I 2.00= EC... I 6.00= EC	(EDM-800 only) Set the Engine Constant
	END Y ↔ END N	Y· Yes to exit; N· No to review list again

MAP, Fuel Flow Alarm Limits, Units, Fuel Capacity

MAP Overboost Alarm

Enter the redline for overboost on turbocharged engines.

Fuel Flow Units (shaded area above)

Selects the units in *all* measurements where fuel quantity or fuel rate is displayed. If you change this parameter, it does *not* change the numerical value of the fuel tank capacity. You must do this manually. For example if you change from Gal. to Lbs., the tank capacity will be interpreted as 50 Lbs. rather than 50 gallons; the EDM will not convert 50 Gal to equivalent pounds.