



Map Enable Setup

☒ Enable conditional features on this map

OK Cancel Help

Setup Map Conditions:

If Condition is TRUE:

- ☐ Enable this map (output is tuned by map)
- ☐ Disable this map (output = input)
- ☒ Output fixed value

Fixed value to output: 0 %

Condition Setup:

IF ->Freq0 In is greater than threshold table AND

->AN1 In is greater than 35 %

for longer than 500 milliseconds then the condition is TRUE else it is FALSE.

Threshold Table

Enter threshold values vs RPM in the following table: 100%

RPM	2000	4000	6000	8000	10000
Thr(%)	25	32	42	47	50

Select RPM Range

- ☐ 1000 - 5000 rpm
- ☒ 2000 - 10000 rpm

0%

How it works

The conditional feature sets the output of the map (in the case of this MAF table, Freq0out) to 0% if the following conditions are met. By setting Freq0out to 0, a fuel cut is induced. The "following conditions" are as follows...

IF Freq0in (MAFin) is greater than the threshold table at the bottom of the page AND AN1in (the SMART kit's Wideband o2 signal) is greater than 35% (1.75v or ~13.5:1) for a period longer than 500 milliseconds (1/2 sec)

As long as those three conditions are met, the fuel will be cut. The cut will be momentary and only occur under moderate to high boost. The car will run just fine a lower boost levels or vacuum. The check engine light will also kick on with a MAF circuit low code. If you don't want this code to kick on, you can set the output value to 5% instead of 0%. Still too little fuel to make any form of combustion under boost but enough MAF voltage to keep the MAF code from popping up.

To raise or lower the load threshold/curve above which the conditional goes on the alert, you can raise or lower the values in the threshold table. The numbers in the table right now should be akin to MAF values you would see at ~10%. So once boost goes above 10psi, the conditional is on alert mode. Then once AN1 goes greater (leaner) than 35% for longer than 500 milliseconds, the fuel cut will be triggered. The time period is a pretty important parameter. You want it set it as low as possible without inducing a false trigger. 500-1000 milliseconds is about right for this feature. For those who run NLS or launch control, you may have to raise the Threshold a bit (to just above what MAF value you generate at the launch RPM) and lengthen the time duration to just above what you would expect your shift speed to be. This is because you will be essentially running without combustion during the clutch-induced fuel cut. This will be interpreted as lean by the system. In this case, you'd probably want to set your time parameter to 1000 milliseconds or so.