



MICROTEC®

CO-correction

[illegible]

Sede Legale Via Avris 3/A – 21032 CARAVATE (VA) ITALY

P.IVA 02356120127 – C.F. 02356120127

Tel. +39 0332 601731 – Fax +39 0332 771777

Capitale Sociale € 10.200 i.v Reg. Imprese di Varese n. 02356120127 REA n. 251455


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General description:

CO-correction– In this mode a fixed AFR value is used as a target and the ECU will automatically adjust the injection time. CO-correction is useful to use on the road and track to adjust the fuel map in function of the difference that can be happens for different altitude, Humidity, temperature, etc values.

Mon232 v1.11b

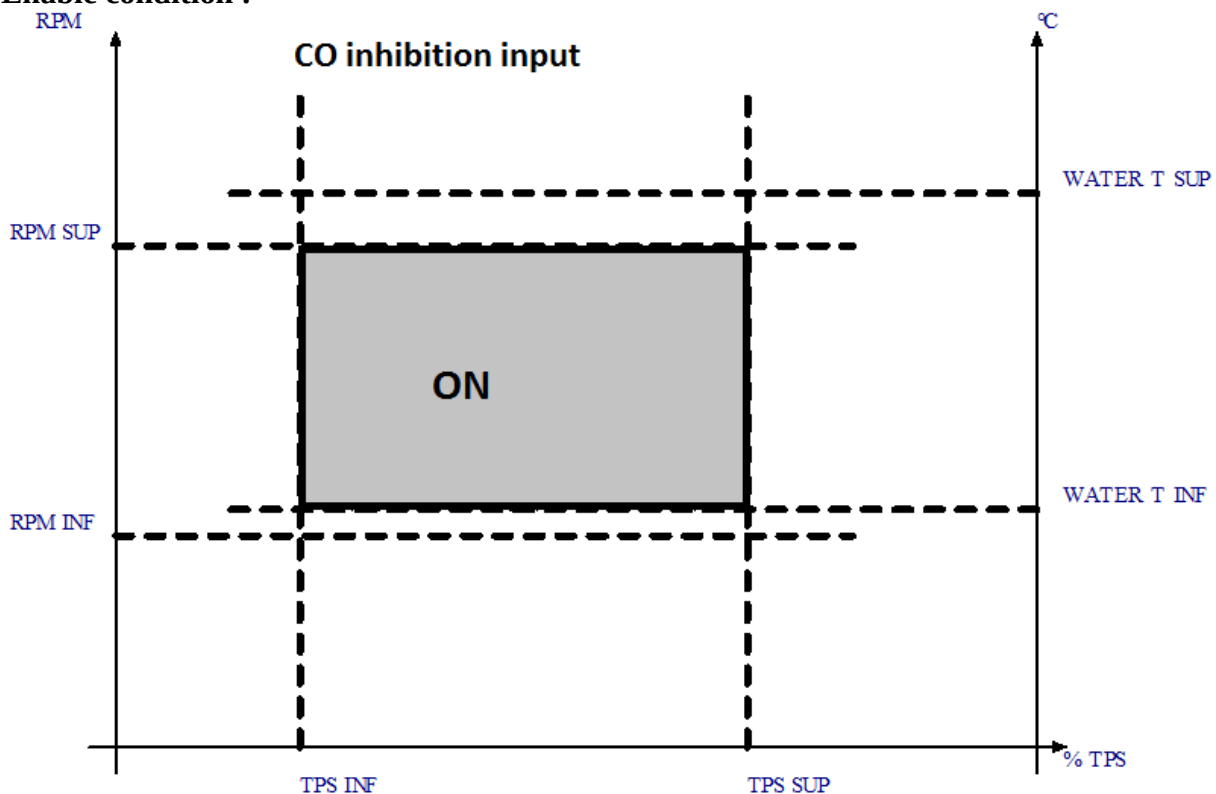
Parameters Misc. 1 Misc. 2 Misc. 3 Cut Off Transient Gear & Shift Anti-Lag **CO-Corr.** Traction Ctrl.

Activation Limits Lower Upper
 Speed [rpm] 1000 10000
 Throttle [deg] 0.0 70.0
 Water Temp. [°C] 50.0 90.0
 Break Point by Throttle
 Delay [s] 50 40 30 15 10 5 15 30
 Step Low Step High
 Inj. Correction [%] 0.5 1.0
 Lambda Threshold [A/F] +/- 0.2
 Max. Correction 20.0
 Time Base [sec] 0.1
 Suspend Time at Shift Start [ms] 150
 Reset

Channel A EngineSpeed [rpm]

Uego1	A/F	0	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	12000	13000	13500	14000
0.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
10.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
20.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
30.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
40.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
50.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
60.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
70.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
80.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8
100.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8

Enable condition :



Other inhibition conditions:

- map tuning enable
- engine speed limits ON
- gear shifting
- inj and adv transient
- cut-off enable
- antislip enable

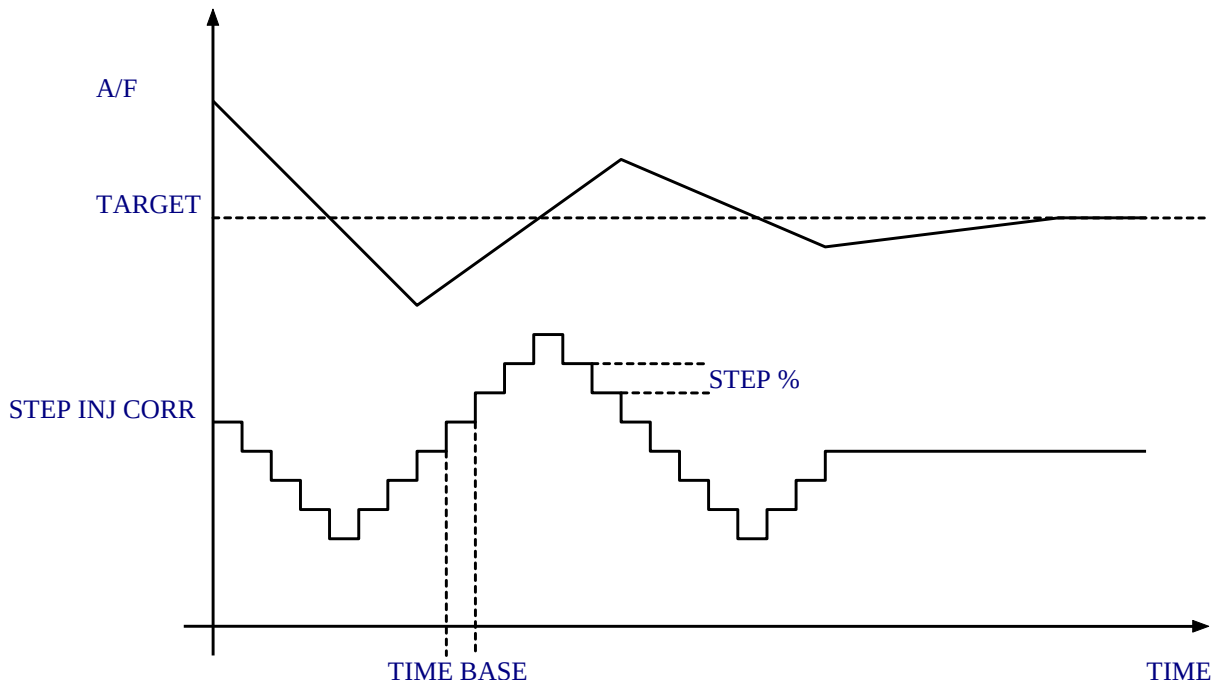
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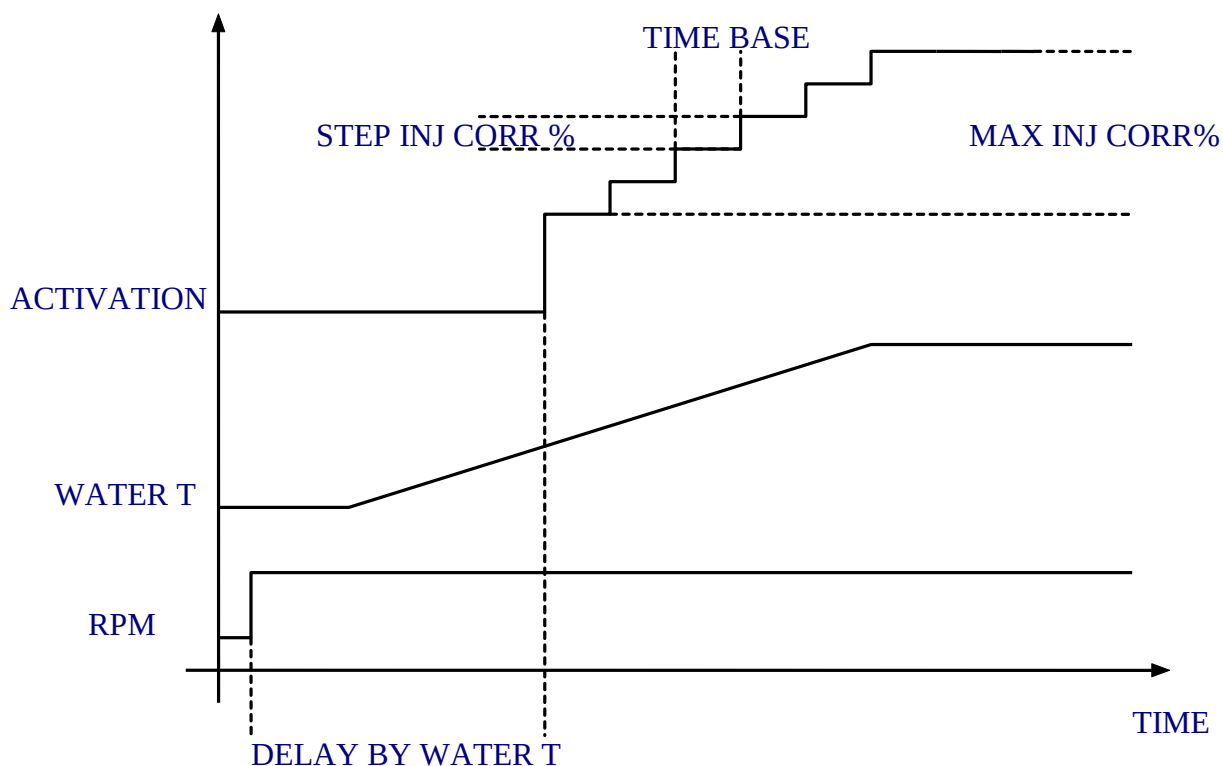

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General operation:

- Correction made from CO-correction strategy are in step format, with a definite time base.



- A delay can be fixed to operate CO-correction only after a definite time, to exclude bad operation depending on cold temperature and cranking map.



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Detailed operation:

- Correction on the injection map are made in step mode, refer to rpm and tps cells, by using Inj corr step and max value.
- It's possible to select 1 or more cylinder simultaneous. In this way, the correction will be applied to all cylinder selected.
- It's possible to select different lambda input that will be used for the strategy.

Software description:

Mon232 v1.11b

Parameters Misc. 1 Misc. 2 Misc. 3 Cut Off Transient Gear & Shift Anti-Lag **CO-Corr.** Traction Ctrl.

Activation Limits Lower Upper
 Speed [rpm] 1000 10000
 Throttle [deg] 0.0 70.0
 Water Temp. [°C] 50.0 90.0

Break Point by Throttle

Water Temp. [°C] 0.0 20.0 40.0 60.0 80.0 90.0 100.0 110.0
 Delay [s] 50 40 30 15 10 5 15 30

Suspend Time at Shift Start [ms] 150

Inj. Correction [%] Step Low Step High
 0.5 1.0
 Max. Correction 20.0

Lambda Threshold [A/F] +/- 0.2 Time Base [sec] 0.1 **Reset**

Channel A EngineSpeed [rpm]

Uego1 A/F 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 11000 12000 13000 13500 14000

Throttle [deg] 0.0 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8
 10.0 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8
 20.0 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8
 30.0 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8
 40.0 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8
 50.0 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8
 60.0 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8
 70.0 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8
 80.0 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8
 100.0 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8 12.8

Software section regarding the strategy of CO correction.

First you must activate the strategy, by choosing from the menu of the channel, the input lambda that is a reference and check the cylinders that you want to adjust with this strategy.

Fix the A/F ratio into the listed plan in function of your choosing.

Speed [RPM] - set the engine speed range within which the strategy is working

Degrees throttle - set the range of throttle openings within which the strategy is working

Water temperature - set the range of temperatures within which the strategy is working

Correction inj step[%] - sets the step change value that can be applied to correct the injection map.

Correction inj max [%] - sets the maximum correction injection which may have throughout this strategy.

Time base [sec] - set the time how the strategy is executed.

Correction table for CO, that depending on water temperature, you can set a delay of the strategy.

Water Temp. [°C]	0.0	20.0	40.0	60.0	80.0	100.0	120.0	140.0
Delay [ms]	30000	30000	30000	30000	30000	30000	30000	30000

The plan listed displays the corrections A / F to be made during the strategy. Using the reset button you can reset the correction table calculated, into the ECU. It's not possible to display this table.

CO-correction will be active every time, until ECU will receive a map file with disabled channel selected.

Channel

Disabled A/F

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