



Tecnología electrónica al servicio del GNC

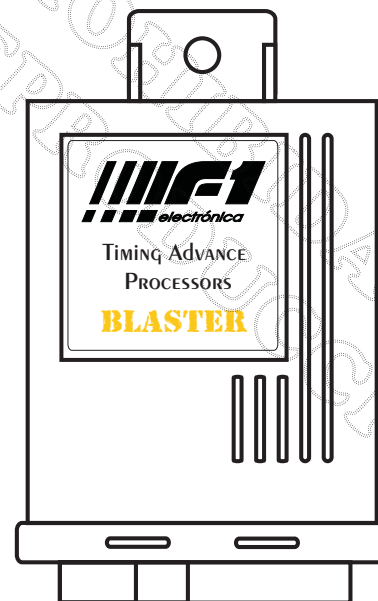
- * Change-over Switches for Injection fitted with indicator
- * Injectors Emulators UNIVERSAL type
- * Switches fitted with reserve indicator
 - * Timing Advance Processors
 - * Lambda signal emulators

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Installation and User Manual of Electronic Timing Advance Processors: BLASTER, EAGLE, HAWK, SPARROW and VIPER.





Install the timing advance processor in vertical position so as to prevent the entry of water inside the processor



Always locate the timing advance processor far away from heat sources, such as exhaust manifolds, etc...



Always locate the timing advance processor far away from the ignition coil and make sure the electric installation is far from high voltage cables.



NEVER open the timing advance processor unit, If this occurs while the vehicle is operating, you run the risk of electrocution and the product's warranty is no longer valid.



Electrical connections must be welded and properly isolated.

THE PROPER OPERATION OF THE TIMING ADVANCE PROCESSOR DEPENDS ON FOLLOWING THE ABOVE-MENTIONED INSTRUCTIONS



Inform end user that in case the timing advance processor is damaged, an emergency connector that restores the original connection is available.

Technical Features.

Input voltage: 10 - 14 Vdc

Advance regulation: 6° - 15°

Unit measurements:

Fixing hole diameter = 6mm approx.

Height = 106mm approx.

Width = 62mm approx.

Depth = 27mm approx.

For the proper installation of timing advance processors in the different vehicles, please refer to the diagrams attached.

General connection standards:

The timing advance processor is placed in the vehicle's ignition signal between the Electronic Control Unit and the ignition module. After cutting the cable from said signal, the end coming from the control unit must be connected to the timing advance processor's BLACK cable, and the cable end coming from the ignition module must be connected to the timing advance processor's BROWN cable. The timing advance processor's RED cable must be connected at 12V through the ignition switch.

The timing advance processor's BLUE cable must be connected to the fuel change-over switches GAS output.

The timing advance processor's PURPLE cable must be connected to the TPS or FLOWMETER signal that changes during acceleration.

The timing advance processor's YELLOW-GREEN cable must be connected to firm MASS.

F1 Electrónica S.R.L. Shall assume no liability for any damage caused to people or things resulting from the manipulation of the product by third parties not authorized to that effect.

Selecting the ADVANCE Curve



Advance curve
for CNG



Advance curve
for LPG

Selecting the TPS Type



For TPS with
0V to 5V variation
(normal TPS)



For TPS with
5V to 0V variation
(reverted TPS)

How and when to apply the advance during deceleration and at idle

In some vehicles it is convenient to remove the advance during deceleration or at idle, so as to prevent irregular malfunctioning. On the other hand, it is convenient to apply the advance during acceleration to reduce the possibility of counter-explosions to a minimum.

Timing advance processors may apply or remove the advance automatically by connecting the advance processors' PURPLE cable to the TPS potentiometer or air flowmeter.

Regulating the Advance Intervention

As the TPS or flowmeter position when the vehicle is at idle is not always the same, the advance intervention point may be regulated. This is achieved by regulating the timing advance processor's preset as follows:

Advance intervention register →

- A) Turn the preset completely clockwise.
- B) While the vehicle is at idle, turn the preset slowly counterclockwise until the advance led is off.

If, after minimum acceleration, the led turns on, regulation is correct.



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WARRANTY CERTIFICATE

Dear customer:

Congratulations on your purchase of this F1 Electrónica product. All our products undergo rigorous quality tests. However, if the product features any kind of defect, please address your installer urgently, who will make the necessary checkups or will intervene as necessary.

General Warranty Information:

This product is warranted by F1 Electrónica for a period of 12 (twelve) months from the date of installation. Defects in manufacturing and materials, as well as defects in everything related to the good operation of the equipment will be covered. Should the product be defective during the warranty period, F1 Electrónica will repair or replace the defective parts. Shipping expenses will be borne by the addressee.

Components or accessories not manufactured by F1 Electrónica will be covered only by the warranties of their respective manufacturers. This warranty is the only one provided by F1 Electrónica. Therefore, any other warranty is excluded.

F1 Electrónica shall assume no liability for any damage against individuals or things resulting from product malfunction, except in the event of gross deceit or intent. This warranty will be valid only for those who are not late in payments.

Conditions:

This warranty will only be valid if this certificate is submitted, which shall be fully filled in, and, enclosed, if necessary, to the purchase receipt. F1 Electrónica may refuse to recognize this warranty if it is incomplete or false. This warranty will only be valid if the product was in good operating conditions at the moment of purchase and its packaging, intact, as F1 Electrónica is the only one that may warranty its origin.

Exclusions and Limitations:

- a) Maintenance, control, repair or replacement of parts that have deteriorated after normal use.
- b) Damage or malfunctioning resulting from wrong installation, misuse or use that does not agree with the technical instructions supplied, and any defect that is not caused by a construction defect.
- c) Products installed, repaired, replaced or changed by individuals not authorized in writing by F1 Electrónica.
- d) Accidents caused by force majeure (i.e.: fire, water, electromagnetic fields, etc.) not controlled by F1 Electrónica.

Serial Nr.:

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Installation Date:

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Vehicle model and brand:

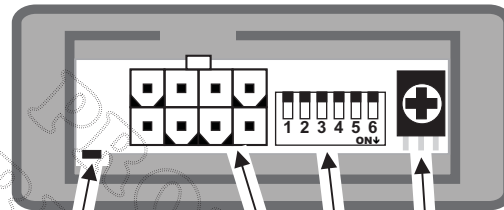
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Fitter Stamp:

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Regulating Timing Advance Processor Operation Parameters.

Lower View of the Electronic Timing Advance Processor



Advance indicator led applied.

Connector for electrical installation.

Dipswitch

Advance intervention preset, that regulates TPS

Regulating the number of cylinders in the vehicle



4-cylinder engine



5-cylinder engine



6-cylinder engine



8-cylinder engine

Regulating the advance amount applied



6° advance



9° advance



12° advance



15° advance