

EGS & EGS Lean Burn Trim Knock Control Strategies

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Issue

For control of engine knock based on data received from the Woodward FireFly™ (if installed), these systems allow the user to select either timing retard or load (or speed) reduction. However, it is possible for the user to select both strategies, in which case they will operate simultaneously. This is not an intended function of the product.

Description

The knock control strategies were intended to be adapted unchanged from the EGS-01 product, which preceded the EGS and EGS Lean Burn Trim. The EGS-01 offered three strategies:

- Timing Retard
- Load (or speed) Reduction
- Timing Retard followed by Load (or speed) Reduction

In the EGS-01, option 3 is selected when the user selects both timing retard and load (or speed) reduction. In EGS and EGS Lean Burn Trim, when the user selects both functions, they operate simultaneously instead of sequentially. This unintended combination may result in sub-optimal engine performance and unpredictable knock control behavior.

Affected Units

Woodward part number (P/N): 9906-713 Revision "NEW" & A

The following unit is affected only when used in combination with Woodward IC-92X ignition:

- P/N 9906-712 Revision "NEW" & A

The following unit is affected only when used in combination with Woodward FireFly control P/N 1752-015 or kit P/N 8915-1202:

- P/N 9906-708 Revision "NEW" & A

The following unit is affected only when used in combination with Woodward FireFly control P/N 1752-015 or kit P/N 8915-1202 and IC-92X:

- P/N 8237-1272 Revision "NEW"

The following unit is affected only when used in combination with Woodward FireFly control P/N 1752-015 or kit P/N 8915-1202 and IC-92X ignition:

- P/N 9906-707 Revision "NEW", A & B

Corrective Action

In a future release of these products, software will be revised to have the intended functionality as implemented in the EGS-01.

Customer Action

Do not select speed or load reduction with timing retard for knock control. Use one strategy only: either timing retard or load (or speed) reduction.

We appreciate your comments about the content of our publications.

Send comments to: icinfo@woodward.com

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