5.13   FUEL ECONOMY INCENTIVE

The purpose of Fuel Economy Incentive (FEI) is to allow the fleet manager to set a fuel economy target while providing the driver an incentive to meet the target.

5.13.1   OPERATION

Using the Fuel Economy Incentive option, a fleet manager can set a target fuel economy for each engine. If this fuel economy is exceeded, the driver will be awarded a slight increase to the vehicle speed limit.

In this example the following limits are set as listed in Table 5-46.

Parameter	Set Limit
Maximum Road Speed	60 MPH
FEI Max Vehicle Speed Reward	5 MPH
FEI Conversion Factor	20 MPH/MPG
FEI Minimum Fuel Economy	7 MPG

Table 5-46   Fuel Economy Limits

If the driver has an average fuel economy of 7.1 MPG then the new vehicle speed limit is 62 MPH.

Vehicle Speed Limit + (Average Fuel Economy — FEI Minimum Fuel Economy) x FEI Conversion Factor = New Vehicle Speed Limit

60 MPH + (7.1-7.0 MPG) x (20 MPH/MPG) = 62 MPH

The maximum vehicle speed obtainable regardless of the fuel economy is 65 MPH.

5.13.2   PROGRAMMING REQUIREMENTS AND FLEXIBILITY

The Fuel Economy Incentive parameters are listed in Table 5-47.

Parameter Group	Parameter	Definition	Options	Default	Access
23	Fuel Economy Incentive Enable	Enables/disable the feature.	0 = Disable 1 = Enable	0	DDDL 7.0, DRS
23	FEI Minimum Fuel Economy	Indicates the minimum economy for fuel economy incentive.	4 to 20 mpg	7	DDDL 7.0, DRS
23	FEI Max Vehicle Speed Reward	Indicates customer set maximum speed increase for vehicle.	0 to 20 km/h	0	DDDL 7.0, DRS
23	FEI Conversion Factor	The miles per hour you want to allow for each full mile per gallon above the minimum MPG.	0 to 20 MPH/MPG	2	DDDL 7.0, DRS
23	FEI Use Trip Mileage	FILT ECON bases the calculations on the fuel information, by periodic sampling of fuel consumption. TRIP ECON bases the calculation on the trip portion of the fuel usage information.	0 = Based on Filtered Fuel Economy* 1 = Based on Trip Fuel Economy†	0	DDDL 7.0, DRS

* Filtered fuel economy calculates the fuel economy based on periodic sampling of fuel consumption. It allows rewards over a shorter time period.
† Trip fuel economy calculates fuel economy over the entire trip. Rewards may take longer to achieve.

Table 5-47   Fuel Economy Incentive Parameters

5.13.3   INTERACTION WITH OTHER FEATURES.

Fuel Economy Incentive will increase the Cruise Control and vehicle speed limits.

A vehicle can be have with both PasSmart and Fuel Economy Incentive, but the extra speed increments provided by the two features do not add together. For example, if Fuel Economy Incentive is set for 7 MPH of extra speed when the driver hits the maximum fuel economy target and the same vehicle has a 5 MPH PasSmart increase, the resulting speed increase is 7 MPH, not 12 MPH.