

Section 5.2

Common Driver Reward

The Common Driver Reward (CDR) feature provides a higher road speed limit based on the time spent in top gear or in Cruise Control.

Section 5.2.1

Operation

The CDR feature is controlled by setting CDR MODE to one of the following:

| |
|---|
| 0: Disabled – CDR is not activated |
| 1: Cruise Control – CDR activates for time spent in Cruise Control |
| 2: Top Gear – CDR activates for time spent in Top Gear |
| 3: Cruise Control and Top Gear – CDR activates for time spent in Cruise Control or Top Gear |

CDR Mode calculates an increment of vehicle speed which is added to the maximum road speed threshold. Refer to "5.2.1.1 Calculation of CDR" for CDR Mode options.

There are three timers (time kept in seconds):

- Total drive time
- Total time in Cruise Control
- Total time in Top Gear

The moment the CDR drive timer started is indicated with Day/Month/Year.

Section 5.2.1.1

Calculation of CDR

The time spent in either Cruise Control or Top Gear is divided by the drive time to make up a ratio:

| | |
|------------------------|--|
| Top Gear ratio = | $\frac{\text{Top Gear Time}}{\text{Drive Time}}$ |
| Cruise Control ratio = | $\frac{\text{Cruise Control Time}}{\text{Drive Time}}$ |

New maximum road speed = Maximum road speed + Final Incentive

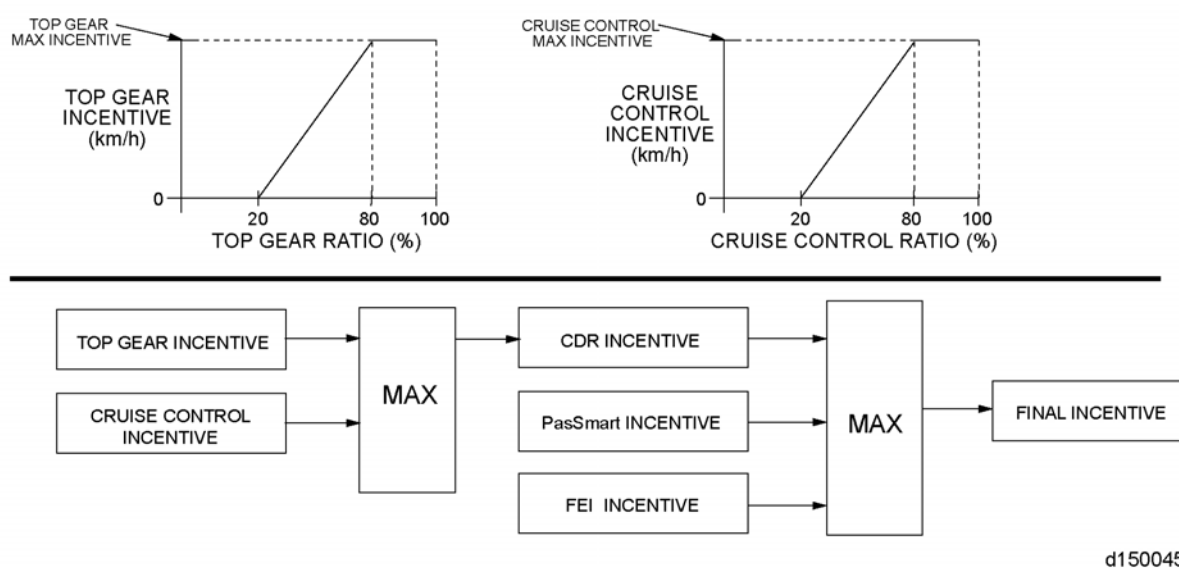


Figure 1. Finding Incentive and Final Incentive Arbitration

If the ratio is smaller than 0% or higher than 100% it will be clipped to 0% or 100%.

Note: CDR calculates an increment of vehicle speed which is added to the maximum road speed limit.

Driving time is accumulated when the vehicle is moving faster than 1 Km/h.

Resetting the CDR timers is controlled by setting CDR RESET FREQUENCY to one of the following:

| | |
|----|--|
| 0: | Disabled – CDR timers will never be reset |
| 1: | Daily – CDR timers will be reset daily |
| 2: | Weekly – CDR timers will be reset weekly |
| 3: | 4 Weeks – CDR timers will be reset every 4 weeks |

Section 5.2.1.2

Programmings Requirements and Flexibility

The options for CDR Mode are listed in Table "CDR Mode Settings" .

| Parameter Group | Parameter | Setting |
|-----------------|-----------|-------------------------------|
| | | 0 = Off |
| | | 1 = Cruise Control |
| 23 | CDR Mode | 2 = Top Gear |
| | | 3 = Cruise Control + Top Gear |

Table 4. CDR Mode Settings

The options for resetting the CDR timer are listed in Table "CDR Reset Frequency Options" .

| Parameter Group | Parameter | Setting |
|-----------------|--------------------------------------|-------------------|
| | | 0 = Off |
| 23 | CDR Reset Frequency | 1 = Daily |
| | | 2 = Weekly |
| | | 3 = 4 weeks |
| 23 | Top Gear Max CDR Incentive | 0.. 5120 = signal |
| 23 | Max CDR Incentive for Cruise Control | 0.. 5120 = signal |

Table 5. CDR Reset Frequency Options