



TO: All OEMs

FROM: Application Engineering

SUBJECT: New CPC Software – R33_000_00a

SUMMARY

Continuous improvement of our engine systems requires periodic releases of new software packages. We are releasing the next package of software updates as a running change to MY2014 engine production. You must begin flashing CPCs with this new software version no later than May 1, 2014. With this release, the current software versions for all engine controllers are as follows:

- CPC4 – R33_00_000a (new software)
- MCM2.1 – m4.1.0.47 (no changes)
- ACM2.1 – e3.1.3.0 (no changes)

The new CPC4 software includes a number of fixes for existing features, product support updates for Tier IV and the DT12 transmission, along with a new feature for PTO operation. With the release of R33_00_000a, you will have the ability to disable the vehicle odometer while operating with a Split Gear PTO.

VEHICLE SPEED SIGNAL EVALUATION IN CASE OF SPLIT GEAR PTO

VSS Evaluation in Case of Split Gear PTO is a feature that exists beginning with CPC4 R33 software. This feature prevents the vehicle odometer from accruing miles, the speedometer from displaying a false road speed, and undesired warning buzzer operation while the PTO is engaged and the vehicle is not moving (Road Speed = 0). For this feature to be active, the following conditions must be met:

- Park Brake is applied
- Remote PTO is active
- ABS front wheel speed < 5 km/h (3.1 mph) only if EBC2 was received this ignition cycle - (ABS-equipped vehicle only)

Programming Requirements & Flexibility

VSS Evaluation in Case of Split Gear PTO must be enabled. The parameters are listed in the following table:

Vehicle Speed Signal Evaluation in Case of Split Gear PTO				
Parameter Group	Parameter	Options	Required/ Recommended Settings	Access
7	Config PTO Speed Control	0 = Disabled 1 = Cab/Remote PTO enabled 2 = Cab/Remote PTO enable if neutral 3 = Cab/Remote PTO enabled if neutral and park brake 4 = Cab/Remote PTO enabled if park brake 5 = Cab PTO while driving 6 = Cruise PTO with park brake 7 = Cab/Remote PTO while driving	4 = Cab/Remote PTO enabled if park brake 6 = Cruise PTO with park brake	DDDL 7.X, VEPS, DDRS
7	Max Road Speed in PTO Mode	0 to 128 km/h (0 to 79.5 mph)	0 km/h (mph)	DDDL 7.X, VEPS, DDRS
8	Vspeed Eval Split Gear PTO	0 = Vspeed evaluation 1 = Set Vspeed to 0	1 = Set Vspeed to 0	DDDL 7.X, VEPS, DDRS

Table 1: Parameters for VSS Evaluation with Split Gear PTO

ACCESS TO DETAILED INFORMATION

OEMs should contact your assigned DETROIT Application Engineer for any technical questions regarding the new software.