

APPENDIX C: PARAMETER LIST

Diagnostic Name	Parameter Group	Min	Max	Default	Access	Range
0 Speed Gov TSC1 Condition	22	0	16	0	DRS, VEPS	0 - Series 60; 16 - MBE
1 Speed Gov TSC1 Condition	22	0	16	0	DRS, VEPS	0 - Series 60; 16 - MBE
2 Speed Gov TSC1 Condition	22	0	16	0	DRS, VEPS	0 - Series 60; 16 - MBE
3 Speed Gov TSC1 Condition	22	0	16	0	DRS, VEPS	0 - Series 60; 16 - MBE
1 01 DI Selection	13	0	3	0	DRS, VEPS	0=disable, 1=enable Dual Speed Axle, 2=enable transmission retarder input, 3=FUSO Auxiliary brake cut switch
1 021 DI Selection	13	0	2	1	DRS, VEPS	0=disable, 1=enable park brake interlock, 2=FUSO Park brake switch
1 05 DO Fault Detection	35	0	1	0	DRS, VEPS	0=disabled, 1=enabled
1 10 DI Selection	13	0	2	0	DRS, VEPS	0=disable, 1=enable aux shutdown, 2=FUSO Accelerator switch
1 15 DI Selection	13	0	3	1	DRS, VEPS	0=disable, 1=Shutdown override / Diagnostic Request (Fault Code Flashing), 2=CC-Cancel, 3=Diagnostic Request (Fault Code Flashing)
2 08 DI Selection	13	0	2	1	DRS, VEPS	0=disable, 1=Remote-Throttle enable, 2=Service-Brace active
2nd Axle Speed Switch Config	13	0	3	0	DRS, VEPS	0=hardwired, 1=Ccvs1, 2=Ccvs2, 3=Ccvs3
3 01 AI Selection	13	0	3	0	DRS, VEPS	0=no sensor, 1=air filter restriction sensor, 2=OI Thermostat input, 3=FUSO Clutch pedal sensor input
3 05 AO Selection	9	0	4	0	DRS, VEPS	0=disabled, 1=oil pressure lamp, 2=5 bar oil pressure gauge, 3=10 bar oil pressure gauge, 4=fuel filter sensor
3 06 AO Selection	9	0	3	0	DRS, VEPS	0=disabled, 1=coolant temperature lamp, 2=coolant temperature gauge, 3=OI Thermostat input
3 07 DO Fault Detection	35	0	1	0	DRS, VEPS	0=disabled, 1=enabled

Diagnostic Name	Parameter Group	Min	Max	Default	Access	Range
3 07 DO Selection	35	0	5	0	DRS, VEPS	0=disabled, 1=decompression valve, 2=grid heater, 3=TOP2 lockout solenoid, 4=modulation output for Allison Transmission without J1939 Interface (Gear1), 5=PTO valve for AGS2
3 08 DO Fault Detection	35	0	1	0	DRS, VEPS	0=disabled, 1=enabled
3 08 DO Selection	35	0	7	0	DRS, VEPS	0=disabled, 1=exhaust brake only, 2=exhaust and decompression brake via single valve, 3=port extension turbo brake, 4=PTO stationary for AGS2, 5=PTO mobile for AGS2, 6=TOP2 shift solenoid, 7=Fuso starter lockout relay
3 09 DO Fault Detection	35	0	1	0	DRS, VEPS	0=disabled, 1=enabled
3 09 DO Selection	35	0	5	0	DRS, VEPS	0=disabled, 1=grid heater hardwired, 2=AGS2 backup lamp, 3=engine brake active, 4=not used, 5=FUSO engine brake active lamp
3 10 DO Fault Detection	35	0	1	0	DRS, VEPS	0=disabled, 1=enabled
3 10 DO Selection	35	0	5	0	DRS, VEPS	0=disabled, 1=air filter lamp, 2=AGS2 transmiss. temp indication lamp, 3=battery voltage low lamp, 4=coolant level low lamp, 5=Fuso retarder control 1
3 12 DO Fault Detection	35	0	1	0	DRS, VEPS	0=disabled, 1=enabled
3 12 DO Selection	35	0	5	0	DRS, VEPS	0=disabled, 1=oil level lamp, 2=AGS2 check transmiss. indication lamp OI: Optimized Idle, 3=oil pressure low lamp, 4=cruise / Pressure Governor System active lamp, 5=Fuso retarder control 2
3 17 DO Fault Detection	35	0	1	0	DRS, VEPS	0=disabled, 1=enabled
3 17 DO Selection	35	0	7	0	DRS, VEPS	0=disabled, 1=enable starter lockout, 2=enable kick down output, 3=not used, 4=optimized idle alarm, 5=split valve 2, 6=starter lockout and AGS2 run signal / starter lockout, 7=engine brake disabled for over speed
3 18 DI Selection	13	0	10	0	DRS, VEPS	0=disable, 1=enable ABS input, 2=enable transmission retarder input, 3=enable tempo set, 4=enable grid heater detection, 5=switchable torque demand, 6=drive on super structure, 7=throttle inhibit super structure, 8=split select, 9=FUSO Engine brake stage 2 cancel switch, 10=DPF inhibit switch

Diagnostic Name	Parameter Group	Min	Max	Default	Access	Range
4 06 DO Fault Detection	35	0	1	0	DRS, VEPS	0=disabled, 1=enabled
4 06 DO Selection	35	0	3	1	DRS, VEPS	0=disabled, 1=grid heater lamp, 2=accelerator pedal idle position, 3=run signal / starter lockout
4 07 DO Fault Detection	35	0	1	0	DRS, VEPS	0=disabled, 1=enabled
4 07 DO Selection	35	0	13	13	DRS, VEPS	0=disabled, 1=accelerator pedal kick down, 2=actual torque, 3=road speed, 4=engine speed, 5=coolant temperature, 6=pedal torque, 7=boost temperature, 8=oil pressure (PLD threshold), 9=coolant temperature (PLD threshold), 10=vehicle power shutdown / ignition relay, 11=optimized idle ACC bus (ignition relay), 12=split valve 1, 13=High Exhaust Temperature Lamp
4 08 DI Selection	13	0	2	1	DRS, VEPS	0=disable, 1=clutch switch, 2=PTO request for AGS2
4 09 DO Fault Detection	35	0	1	0	DRS, VEPS	0=disabled, 1=enabled
4 09 DO Selection	35	0	12	0	DRS, VEPS	0=disabled, 1=accelerator pedal idle position, 2=actual torque, 3=road speed, 4=engine speed, 5=coolant temperature, 6=pedal torque, 7=boost temperature, 8=oil pressure (PLD threshold), 9=coolant temperature (PLD threshold), 10=optimized idle active lamp, 11=deceleration lamp, 12=Fuso ground starter lockout relay
4 10 DO Fault Detection	35	0	1	0	DRS, VEPS	0=disabled, 1=enabled
4 10 DO Selection	35	0	3	0	DRS, VEPS	0=disabled, 1=not used, 2=not used, 3=vehicle power shutdown / ignition relay
4 12 PWM Output Selection	9	0	10	0	DRS, VEPS	0=disabled, 1=throttle torque 10%..90%, 2=difference torque, 3=throttle torque 90%..10%, 4=actual torque, 5=load torque (no idle torque for automatic transmission), 6=road speed, 7=demand speed, 8=demand speed CC+, 9=AGS2 transmiss. temp indication lamp, 10=FUSO Accelerator PWM output

Diagnostic Name	Parameter Group	Min	Max	Default	Access	Range
4 13 DI Selection	13	0	10	0	DRS, VEPS	0=disable, 1=enable ABS input, 2=enable transmission retarder input, 3=enable tempo set, 4=enable grid heater detection, 5=switchable torque demand, 6=drive on super structure, 7=throttle inhibit super structure, 8=split select, 9=FUSO Engine brake stage 2 cancel switch, 10=DPF inhibit switch
4 17 DI Selection	13	0	3	2	DRS, VEPS	0=disable, 1=2 Clutch Switch, 2=DPF regeneration switch, 3=FUSO Air suspension speed limit switch
4 18 DI Selection	13	0	6	0	DRS, VEPS	0=disable, 1=enable engine door bus, 2=enable engine hood, 3=AGS2 PTO Feedback, 4=RPM Freeze, 5=Engine Brake Disable, 6=Fast Engine Heat Up Switch
AC Fan Vehicle Speed Enable	19	0	1	0	DRS, VEPS	0=disable, 1=enable
AC Fan Vehicle Speed Thresh	19	0	250 km/h	32.1875 km/h	DRS, VEPS	—
Adaptive Cruise Control Enable	43	0	1	0	DRS, VEPS	0=disable, 1=enable
Adaptive Cruise Engine Brake Mask	10	0	81	64	DRS, VEPS	0=no engine brake activation, 16=exhaust flap only, 17=Jake Brake 2nd stage, 64=decompression valve only or Jake Brake 1st stage, 80=decompression valve and exhaust flap, 81=decompression valve and turbo brake or Jake Brake 3rd stage
Adjusted Idle Configuration	3	0	4	0	DRS, VEPS	0=disabled, 1=enabled, 2=enabled if neutral, 3=enabled if neutral and park brake, 4=enabled if park brake
Air Condition Enable Auto Fan	19	0	1	1	DRS, VEPS, DDDL 7.0	0=disable, 1=enable
AL Conditions	23	0	4	0	DRS, VEPS	0=AL permanently active, 1=No AL during shift, 2=extended AL with torque curve#3 thresh., 3=combination 1+2, 4=No AL during shift torque freeze + release
AL Min Engine Torque	23	0	100%	100%	DRS, VEPS	—
AL Ramp up Rate	23	0	8191.875	0 (1/min)/s	DRS, VEPS	0..65535=signal

Diagnostic Name	Parameter Group	Min	Max	Default	Access	Range
Ambient Air Temp Sensor Enable	31	0	4	0	DRS, VEPS	0=not available, 1=hardwired, 2=reserved for J1939, 3=J1587, 4=ECAN
Anti Tamper	8	0	2	0	DRS, VEPS, DDDL 7.0	0=disabled, 1=enable anti-tampering function via ABS, 2=enable anti-tampering function via Gear Ratio
Axle Ratio	8	1	20	5.29	DRS, VEPS, DDDL 7.0	—
Cab PTO Switch Config	13	0	6	0	DRS, VEPS	0=hardwired, 1=Ccvs1, 2=Ccvs2, 3=Ccvs3, 4=Ccvs1 or hardwired, 5=Ccvs2 or hardwired, 6=Ccvs3 or hardwired
CC ON OFF Switch Config	13	0	3	0	DRS, VEPS	CC ON OFF Switch Config
CC Pause Switch Config	13	0	7	0	DRS, VEPS	0=disabled, 1=Ccvs1, 2=Ccvs2, 3=Ccvs3, 4=Ccvs1 or Ccvs2, 5=Ccvs2 or Ccvs3, 6=Ccvs1 or Ccvs3, 7=Ccvs1 or Ccvs2 or Ccvs3
CC Set Cst Res Accel Sw Config	13	0	3	0	DRS, VEPS	0=hardwired, 1=Ccvs1, 2=Ccvs2, 3=Ccvs3
CC1 Source Address SAE J1939	1	0	255	23	DRS, VEPS	—
CC2 Source Address SAE J1939	1	0	255	33	DRS, VEPS	—
CC3 Source Address SAE J1939	1	0	255	49	DRS, VEPS	—
Clutch Switch Config	13	0	6	9	DRS, VEPS	0=no clutch switch, 1=1 Clutch Switch, 2=2 Clutch Switch, 3=Ccvs1, 4=Ccvs2, 5=Ccvs3, 6=ETC1
CM1 DPF Source Addr SAE J1939	1	0	255	49	DRS, VEPS	—
CM1 Fan Source Addr1 SAE J1939	1	0	255	25	DRS, VEPS	—
CM1 Fan Source Addr2 SAE J1939	1	0	255	49	DRS, VEPS	—
Config PTO Speed Control	7	0	5	0	DRS, VEPS, DDDL 7.0	d, 2=enabled if neutral, 3=enabled if neutral and park brake, 4=enabled if park brake, 5=PTO while driving

Diagnostic Name	Parameter Group	Min	Max	Default	Access	Range
Cool Level Eng Protect Shtdn	18	0	1	1	DRS, VEPS, DDDL 7.0	0=warning, 1=engine shutdown
Cool Level Sensor Input Enable	32	0	4	2	DRS, VEPS	0=disable, 1=dual level probe sensor (IMO), fix threshold evaluation, 2=single level probe sensor (Rusty Nail), temperature dependent evaluation, 3=dual level float sensor (FTL), fix threshold evaluation, 4=single level probe sensor (Rusty Nail), fix threshold evaluation
Coolant Temp Eng Protect Shtdn	18	0	1	1	DRS, VEPS, DDDL 7.0	0=disable, 1=enable
Cruise Control Enable Eng Brk	10	0	1	0	DRS, VEPS, DDDL 7.0	0=disable, 1=enable automatic engine brake operation with cruise control
Cruise Power	15	0	2	0	DRS, VEPS, DDDL 7.0	0=high power only, 1=low power only, 2=Cruise power enabled
Cruise RSL Eng Brk Mode Select	10	0	1	0	DRS, VEPS, DDDL 7.0	0=vehicle overspeed based, 1=torque interface based
Decrement Cruise Set Speed	15	0 km/h	10 km/h	1.61 km/h	DRS, VEPS, DDDL 7.0	—
DPF J1939 Inhibit Sw Enable	46	0	1	0	DRS, VEPS	0=not active, 1=active
DPF J1939 Regen Sw Enable	46	0	1	0	DRS, VEPS	0=not active, 1=active
DPF Lamp Config	46	0	1	0	DRS, VEPS	0=hardwired, 1=J1939 PTC1
DPF Stationary Regen Only	46	0	1	1	DRS, VEPS	0=disabled, 1=enabled
EBC1 Source Address SAE J1939	1	0	255	33	DRS, VEPS	—
Enable Cruise Auto Resume	15	0	2	0	DRS, VEPS, DDDL 7.0	0=disable, 1=enable automatic cruise resume function after clutch has been released once, 2=release clutch twice
Enable Idle PTO Shtdn Override	17	0	2	1	DRS, VEPS, DDDL 7.0	0=disabled, 1=enabled, allows Stop Engine Override / Diagnostic Request switch (pin 1/15) to override engine idle/PTO shutdown, 2=enable without clutch and service brake

Diagnostic Name	Parameter Group	Min	Max	Default	Access	Range
Enable Idle Shutdown	17	0	3	0	DRS, VEPS, DDDL 7.0	0=disable, 1=enable idle shutdown with Park Brake status, 2=enable idle shutdown without Park Brake status, 3=enable idle shutdown with edge triggered accelerator pedal
Enable Noise Control	23	0	1	1	DRS, VEPS	0=VCU style, 1=DDEC style
Enable PTO Shutdown	17	0	3	0	DRS, VEPS, DDDL 7.0	0=disable, 1=enable PTO shutdown with Park Brake status, 2=enable PTO shutdown without Park Brake status, 3=enable PTO shutdown with edge triggered accelerator pedal
Eng Brake Enable Auto Fan	19	0	1	0	DRS, VEPS, DDDL 7.0	0=disable, 1=enable
Eng Brk Stage 1 Off Delay Time	10	0	1280000	240 ms	DRS, VEPS	0..64000=signal
Eng Brk Stage 2 Off Delay Time	10	0	1280000	240 ms	DRS, VEPS	0..64000=signal
Eng Brk Stage 3 Off Delay Time	10	0	1280000	240 ms	DRS, VEPS	0..64000=signal
Eng Speed Limit While Veh Stop	3	0 1/min	4000 1/min	3000 1/min	DRS, VEPS, DDDL 7.0	—
Engine Brake Configuration	10	0	3	0	DRS, VEPS	0=no engine brake, 1=Decompression Valve Only or Exhaust Flap Only, 2=decompression valve + exhaust flap, 3=jake compression brake or turbo brake
Engine Brake Switch Config	13	0	255	0	DRS, VEPS	0=hardwired, 1=info from J1939 (muxed), 255=not available
Engine Hour Sync Fault Enable	37	0	1	1	DRS, VEPS	0=disabled, 1=enabled
Fan AC Hold Time	19	0 s	600 s	180 s	DRS, VEPS	—
Fan Vehicle Speed Enable	19	0	1	0	DRS, VEPS	0=disable, 1=enable
Fan Vehicle Speed Threshold	19	0	250	0 km/h	DRS, VEPS	0..32000=signal
Fast Idle Spd Air Cond Input	6	500 1/min	3000 1/min	600 1/min	DRS, VEPS, DDDL 7.0	—

Diagnostic Name	Parameter Group	Min	Max	Default	Access	Range
Fault Code Flashing Enable	37	0	1	1	DRS, VEPS	0=disabled, 1=enabled
FEI Conversion Factor	23	0 mph /mpg	20 mph /mpg	2 mph /mpg	DRS, VEPS, DDDL 7.0	—
FEI Max Vehicle Speed Reward	23	0 km/h	20 km/h	0 km/h	DRS, VEPS, DDDL 7.0	—
FEI Minimum Fuel Economy	23	4 mpg	20 mpg	7 mpg	DRS, VEPS, DDDL 7.0	—
FEI Use Trip Mileage	23	0	1	0	DRS, VEPS, DDDL 7.0	0=based on filtered fuel economy, 1=based on trip fuel economy
Fleet Management Enable	27	0	1	1	DRS, VEPS, DDDL 7.0	0=disabled, 1=enabled
FM Alert Update Enable	27	0	1	1	DRS, VEPS, DDDL 7.0	0=disabled, 1=enabled
FM Daily Usage Enable	27	0	1	1	DRS, VEPS, DDDL 7.0	0=disabled, 1=enabled
FM Fuel Density	27	0 kg/l	65.535 kg/l	0.835 kg/l	DRS, VEPS	—
FM Incident Update Enable	27	0	1	1	DRS, VEPS, DDDL 7.0	0=disabled, 1=enabled
FM Monthly Trip Enable	27	0	1	1	DRS, VEPS, DDDL 7.0	0=disabled, 1=enabled
FM Serv Interval Update Enable	27	0	1	1	DRS, VEPS, DDDL 7.0	0=disabled, 1=enabled
Fuel Economy Incentive Enable	23	0	1	0	DRS, VEPS, DDDL 7.0	0=disabled, 1=enabled
Gear Ratio for High Gear Power	23	0	2	0.02	DRS, VEPS	—
Gear Ratio Gear Down Protect	23	0	2	0.01	DRS, VEPS	—

Diagnostic Name	Parameter Group	Min	Max	Default	Access	Range
Hi Amb Air Override Temp	17	-40°C	75°C	32°C	DRS, VEPS, DDDL 7.0	—
Hi Eng Brk Max Cruise RSL Spd	10	0 km/h	48 km/h	10 km/h	DRS, VEPS, DDDL 7.0	—
Hi Eng Brk Min Cruise RSL Spd	10	0 km/h	48 km/h	6 km/h	DRS, VEPS, DDDL 7.0	—
Hi Exhaust Temp Lamp Config	46	0	1	0	DRS, VEPS	0=hardwired, 1=J1939 PTC1
Hold Time Fan	19	0 s	600 s	10 s	DRS, VEPS, DDDL 7.0	—
Idle Shutdown Auto Override	17	0	1	0	DRS, VEPS, DDDL 7.0	0=no automatic override performed, 1=automatic override performed
Idle Shutdown Time	17	1 s	5000 s	60 s	DRS, VEPS, DDDL 7.0	—
Increment Cruise Set Speed	15	0 km/h	10 km/h	1.6 km/h	DRS, VEPS, DDDL 7.0	—
J1587 Page2 SID Convert Enable	37	0	1	0	DRS, VEPS	0=disabled, 1=enabled
J1939 Engine Retarder Config	10	3	255	255	DRS, VEPS	0=variable controlled brake, 1=1 step, 2=low/high steps, 3=Jake or Constant Throttle Brake, 4= Exhaust Flap, 255=not configured
J1939 Fan Request Enable	19	0	1	0	DRS, VEPS	0=disabled, 1=enabled
J1939 Steps Engine Brake	10	0	255	255	DRS, VEPS	0=variable controlled brake, 1=1 step, 2=low/high steps, 3=low/medium/high steps, 255=not configured
Limiter0 Max Eng Speed Enabled	5	0 1/min	4000 1/min	4000 1/min	DRS, VEPS, DDDL 7.0	—
Limiter0 Max Eng Trq Enabled	5	0 Nm	5000 Nm	5000 Nm	DRS, VEPS, DDDL 7.0	—
Limiter0 Max Road Spd Enabled	5	0	152 km/h	152 km/h	DRS, VEPS, DDDL 7.0	—

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Diagnostic Name	Parameter Group	Min	Max	Default	Access	Range
Limiter0 Max Trq Curve Select	4	0	3	0	DRS, VEPS	0=PLD torque curve (max. torque), 1=Power Rating Curve #1, 2=Power Rating Curve #2, 3=Power Rating Curve #3
Limiter0 Max Vehicle Accel	5	-15.625 m/ss	15.625 m/ss	10 m/ss	DRS, VEPS, DDDL 7.0	—
Limiter0 Min Eng Speed Enabled	5	0 1/min	4000 1/min	500 1/min	DRS, VEPS, DDDL 7.0	—
Limiter1 Max Eng Speed Enabled	5	0 1/min	4000 1/min	4000 1/min	DRS, VEPS, DDDL 7.0	—
Limiter1 Max Eng Trq Enabled	5	0	5000 Nm	5000 Nm	DRS, VEPS, DDDL 7.0	—
Limiter1 Max Road Spd Enabled	5	0 km/h	152 km/h	152 km/h	DRS, VEPS, DDDL 7.0	—
Limiter1 Max Vehicle Accel	5	-15.625 m/ss	15.625 m/ss	10 m/ss	DRS, VEPS, DDDL 7.0	—
Limiter1 Min Eng Speed Enabled	5	0 1/min	4000 1/min	500 1/min	DRS, VEPS, DDDL 7.0	—
Lo Amb Air Override Temp	17	-40°C	75°C	-4°C	DRS, VEPS, DDDL 7.0	—
Low Eng Brk Max Cruise RSL Spd	10	0 km/h	48 km/h	5 km/h	DRS, VEPS, DDDL 7.0	—
Low Eng Brk Min Cruise RSL Spd	10	0 km/h	48 km/h	2 km/h	DRS, VEPS, DDDL 7.0	—
Max Adjusted Idle Speed	3	0 1/min	4000 1/min	850 1/min	DRS, VEPS, DDDL 7.0	—
Max Cruise Set Speed	15	48 km/h	152 km/h	152 km/h	DRS, VEPS, DDDL 7.0	—
Max Engine Load PTO Shutdown	17	0 Nm	5000 Nm	100 Nm	DRS, VEPS	—
Max Engine Speed	3	0 1/min	4000 1/min	3000 1/min	DRS, VEPS	—
Max PTO Spd Resume Accel Sw	7	500 1/min	3000 1/min	3000 1/min	DRS, VEPS, DDDL 7.0	—

Diagnostic Name	Parameter Group	Min	Max	Default	Access	Range
Max Road Speed	3	102 km/h	152 km/h	152 km/h	DRS, VEPS, DDDL 7.0	—
Max Road Speed in PTO Mode	6	0 km/h	128 km/h	10 km/h	DRS, VEPS	—
Med Eng Brk Max Cruise RSL Spd	10	0 km/h	48 km/h	7 km/h	DRS, VEPS, DDDL 7.0	—
Med Eng Brk Min Cruise RSL Spd	10	0 km/h	48 km/h	5 km/h	DRS, VEPS, DDDL 7.0	—
MID for Ambient Air Temp	31	0 km/h	255 km/h	0 km/h	DRS, VEPS	—
Min Coolant Temp	17	-40°C	200°C	10°C	DRS, VEPS	—
Min Cruise Set Speed	15	16 km/h	152 km/h	32 km/h	DRS, VEPS, DDDL 7.0	—
Min Eng Spd for Engine Brakes	10	0 1/min	4000 1/min	1100 1/min	DRS, VEPS	—
Min Engine Speed	3	0 1/min	4000 1/min	592 1/min	DRS, VEPS	—
Min PTO Spd Set Coast Sw	7	500 1/min	3000 1/min	500 1/min	DRS, VEPS, DDDL 7.0	—
Min Road Spd Eng Brk Operation	10	0 km/h	200 km/h	0 km/h	DRS, VEPS, DDDL 7.0	—
Mode of AC Status Input	5	0	4	2	DRS, VEPS	0=disabled, 1=AC active closed, 2=AC active open, 3=LIM active closed, 4=LIM active open
No of Speeds via Remote PTO	7	1	3	1	DRS, VEPS, DDDL 7.0	—
Noise Max Engine Speed	23	0 1/min	4000 1/min	1450 1/min	DRS, VEPS	—
Noise Min Engine Speed	23	0 1/min	4000 1/min	1100 1/min	DRS, VEPS	—
Number of Output Shaft Teeth	8	0	250	16	DRS, VEPS, DDDL 7.0	—

Diagnostic Name	Parameter Group	Min	Max	Default	Access	Range
OI Alternate Battery Run Time	12	0 s	30600 s	0 s	DRS, VEPS, DDDL 7.0	—
OI Continuous Batt Time Enable	12	0	1	0	DRS, VEPS, DDDL 7.0	0=disabled, 1=enabled
OI Extended Mode Disable	12	0	1	0	DRS, VEPS, DDDL 7.0	0=enable, 1=disable
OI Lower Limit Continuous Run	12	-40°C	100°C	-4°C	DRS, VEPS, DDDL 7.0	—
OI Target Engine RPM ae 0	12	800 1/min	1000 1/min	1000 1/min	DRS, VEPS, DDDL 7.0	—
OI Target Engine RPM ae 1	12	800 1/min	1000 1/min	1000 1/min	DRS, VEPS, DDDL 7.0	—
OI Target Engine RPM ae 2	12	800 1/min	1000 1/min	1000 1/min	DRS, VEPS, DDDL 7.0	—
OI Target Engine RPM ae 3	12	800 1/min	1000 1/min	1000 1/min	DRS, VEPS, DDDL 7.0	—
OI Target Engine RPM ae 4	12	800 1/min	1000 1/min	1000 1/min	DRS, VEPS, DDDL 7.0	—
OI Thermostat Max Time	12	0 s	459000 s	0 s	DRS, VEPS, DDDL 7.0	—
OI Upper Limit Continuous Run	12	-40°C	100°C	32°C	DRS, VEPS, DDDL 7.0	—
OI Variable Volt Thresh Enable	12	0	1	0	DRS, VEPS, DDDL 7.0	0=disabled, 1=enabled
Oil Level Eng Protect Shtdn	18	0	1	1	DRS, VEPS, DDDL 7.0	0=warning, 1=engine shutdown
Oil Press Eng Protect Shtdn	18	0	1	1	DRS, VEPS, DDDL 7.0	0=disable, 1=enable
Optimized Idle Enable	12	0	1	0	DRS, VEPS	0=disable, 1=enable

Diagnostic Name	Parameter Group	Min	Max	Default	Access	Range
Park Brake Switch Config	13	0	3	0	DRS, VEPS	0=hardwired, 1=Ccvs1, 2=Ccvs2, 3=Ccvs3
PasSmart Enable	23	0	1	0	DRS, VEPS, DDDL 7.0	0=disable, 1=enable
Progressive Shift Enable	23	0	1	0	DRS, VEPS, DDDL 7.0	0=disable, 1=enable
PS High Gear On Vehicle Spd	23	0 km/h	250 km/h	80.5 km/h	DRS, VEPS, DDDL 7.0	—
PS High Gear RPM Limit	23	0 1/min	4000 1/min	1650 1/min	DRS, VEPS, DDDL 7.0	—
PS Low Gear 1 Max RPM Limit	23	0 1/min	4000 1/min	1800 1/min	DRS, VEPS, DDDL 7.0	—
PS Low Gear 1 Max Vehicle Spd	23	0 km/h	250 km/h	19.3 km/h	DRS, VEPS, DDDL 7.0	—
PS Low Gear 1 RPM Limit	23	0 1/min	4000 1/min	1400 1/min	DRS, VEPS, DDDL 7.0	—
PS Low Gear 2 Max RPM Limit	23	0 1/min	4000 1/min	1800 1/min	DRS, VEPS, DDDL 7.0	—
PS Low Gear 2 Max Vehicle Spd	23	0 km/h	250 km/h	43.5 km/h	DRS, VEPS, DDDL 7.0	—
PS Low Gear 2 RPM Limit	23	0 1/min	4000 1/min	1800 1/min	DRS, VEPS, DDDL 7.0	—
PS Pass Speed Duration	23	0 min	255 min	0 min	DRS, VEPS, DDDL 7.0	—
PS Pass Speed Increment	23	0 km/h	250 km/h	0 km/h	DRS, VEPS, DDDL 7.0	—
PS Pass Speed Interval	23	1 h	24 h	8 h	DRS, VEPS, DDDL 7.0	—
PTO Dropout on Clutch Enabled	7	0	1	0	DRS, VEPS, DDDL 7.0	0=No PTO drop out with clutch pedal, 1=Causes PTO to drop out if the Clutch is being depressed

Diagnostic Name	Parameter Group	Min	Max	Default	Access	Range
PTO Dropout Serv Brk Prk Brk	7	0	3	0	DRS, VEPS, DDDL 7.0	0=No PTO drop out on service brake or park brake activation, 1=Causes PTO to drop out on Service Brake or Park Brake activation, 2=Drop out on Service Brake activation, 3=Drop out on Park Brake activation
PTO Enable Auto Fan Activation	19	0	1	0	DRS, VEPS, DDDL 7.0	0=disable, 1=enable
PTO Ramp Rate	7	25 (1/min) /s	2500 (1/min) /s	200 (1/min)/s	DRS, VEPS, DDDL 7.0	—
PTO Shutdown Time	17	1 s	5000 s	60 s	DRS, VEPS, DDDL 7.0	—
PTO Throttle Override Enable	7	0	1	1	DRS, VEPS, DDDL 7.0	0=disable, 1=Enable engine speed in PTO mode to be increased with throttle input
Ramp Fan	19	1 %/s	100 %/s	25 %/s	DRS, VEPS	—
Ramp Rate Adjusted Idle Spd	3	0 (1/min) /s	8191.875 (1/min) /s	100 (1/min)/s	DRS, VEPS, DDDL 7.0	—
Remote Accelerator Enable	20	0	1	0	DRS, VEPS	0=disable, 1=enable
Remote PTO Spd Selection Mode	6	0	2	0	DRS, VEPS	0=1 pulsed input(VCU style), 1=2 gray coded inputs, 2=2 binary coded inputs
Resume Accel Max PTO Torque	7	0 Nm	5000 Nm	5000 Nm	DRS, VEPS, DDDL 7.0	—
Resume Accel Sw PTO Set Spd	7	0 1/min	3000 1/min	500 1/min	DRS, VEPS, DDDL 7.0	—
Road Spd Limit Max Stage Num	10	0	3	0	DRS, VEPS	0=off, 1=low, 2=medium, 3=high
Second Highest Gear Ratio	8	0	5.75	2.55	DRS, VEPS, DDDL 7.0	—
Service Brake Switch Config	13	0	3	3	DRS, VEPS	0=hardwired, 1=Ccvs1, 2=Ccvs2, 3=Ccvs3

Diagnostic Name	Parameter Group	Min	Max	Default	Access	Range
Service Brk Enable Eng Brakes	10	0	2	0	DRS, VEPS, DDDL 7.0	0=disable, 1=enable automatic engine brake when applied service brake, 2=operator selection and service brake for engine brake activation
Set Coast Max PTO Torque	7	0 Nm	5000 Nm	5000 Nm	DRS, VEPS, DDDL 7.0	—
Set Coast Switch PTO Set Speed	7	0 1/min	3000 1/min	500 1/min	DRS, VEPS, DDDL 7.0	—
Single Step Adjusted Idle Spd	3	0 1/min	100 1/min	16 1/min	DRS, VEPS, DDDL 7.0	—
Spd 1 Max Eng Trq Remote PTO	7	0 Nm	5000 Nm	5000 Nm	DRS, VEPS, DDDL 7.0	—
Spd 1 via Remote PTO	7	500 1/min	3000 1/min	950 1/min	DRS, VEPS, DDDL 7.0	—
Spd 2 Max Eng Trq Remote PTO	7	0 Nm	5000 Nm	5000 Nm	DRS, VEPS, DDDL 7.0	—
Spd 2 via Remote PTO	7	500 1/min	3000 1/min	1250 1/min	DRS, VEPS, DDDL 7.0	—
Spd 3 Max Eng Trq Remote PTO	7	0 Nm	5000 Nm	5000 Nm	DRS, VEPS, DDDL 7.0	—
Spd 3 via Remote PTO	7	500 1/min	3000 1/min	1850 1/min	DRS, VEPS, DDDL 7.0	—
Stage 1 Eng Brk Off Delta Spd	10	0 1/min	8000 1/min	100 1/min	DRS, VEPS	—
Stage 1 Factor Engine Brake	10	0%	100%	100%	DRS, VEPS	—
Stage 1 Mask Engine Brake	10	0	81	64	DRS, VEPS	0=no engine brake activation, 16=exhaust flap only, 17=Jake Brake 2nd stage, 64=decompression valve only or Jake Brake 1st stage, 80=decompression valve and exhaust flap, 81=decompression valve and turbo brake or Jake Brake 3rd stage
Stage 2 Eng Brk Off Delta Spd	10	0 1/min	800 1/min	100 1/min	DRS, VEPS	—

Diagnostic Name	Parameter Group	Min	Max	Default	Access	Range
Stage 2 Factor Engine Brake	10	0%	100%	100%	DRS, VEPS	—
Stage 2 Mask Engine Brake	10	0	81	80	DRS, VEPS	0=no engine brake activation, 16=exhaust flap only, 17=Jake Brake 2nd stage, 64=decompression valve only or Jake Brake 1st stage, 80=decompression valve and exhaust flap, 81=decompression valve and turbo brake or Jake Brake 3rd stage
Stage 3 Eng Brk Off Delta Spd	10	0	800 1/min	50 1/min	DRS, VEPS	—
Stage 3 Factor Engine Brake	10	0	100%	100%	DRS, VEPS	—
Stage 3 Mask Engine Brake	10	0	81	80	DRS, VEPS	0=no engine brake activation, 16=exhaust flap only, 17=Jake Brake 2nd stage, 64=decompression valve only or Jake Brake 1st stage, 80=decompression valve and exhaust flap, 81=decompression valve and turbo brake or Jake Brake 3rd stage
Throttle Override Max Eng Spd	7	0	3000 1/min	3000 1/min	DRS, VEPS, DDDL 7.0	—
Tire Revs per Unit Distance	8	160 1/km	1599 1/km	312 1/km	DRS, VEPS, DDDL 7.0	—
Top Gear Ratio	8	0.099 609375	2.5498 046875	1	DRS, VEPS, DDDL 7.0	—
Top2 Cruise Control Sw Enable	42	0	1	0	DRS, VEPS, DDDL 7.0	0=disable, 1=using cruise control master switch
Torque Factor Gear Dwn Protect	23	0	1	0	DRS, VEPS	—
Torque Factor High Gear Power	23	0	1	0	DRS, VEPS	—
Trans Factor Engine Brake	10	0%	100%	100%	DRS, VEPS	—
Trans Mask Engine Brake	10	0	81	64	DRS, VEPS	0=no engine brake activation, 16=exhaust flap only, 17=Jake Brake 2nd stage, 64=decompression valve only or Jake Brake 1st stage, 80=decompression valve and exhaust flap, 81=decompression valve and turbo brake or Jake Brake 3rd stage

Diagnostic Name	Parameter Group	Min	Max	Default	Access	Range
Trans Neutral Input Config	13	0	255	0	DRS, VEPS	0=hardwired, 1=info from J1939 (muxed), 255=not available
Trans Retarder Fan Percent	19	0%	100%	0	DRS, VEPS	—
Trans Torque Limit Enable	3	0	1	0	DRS, VEPS	0=disabled, 1=enable
Transmission Type	2	0	7	0	DRS, VEPS	0 – Manual, without neutral switch, 1 – Not Used in NAFTA, 2 – Allison, Eaton UltraShift, AutoShift, ZF ASTronic: direct start, 3 – Manual, with neutral switch, 4 – Not Used in NAFTA, 5 – Eaton AutoShift, UltraShift, ZF ASTronic, AGS2: MCM Start, 6 – Allison, Eaton UltraShift ASW: MCM Start, 7 – Eaton Top2
Transmit EBC1 for AGS2	1	0	3	0	DRS, VEPS	0=no EBC1, standard PTO message, 1=transmit EBC1 and standard PTO message, 2=no EBC1, AGS2 specific PTO message, 3=transmit EBC1 and AGS2 specific PTO message
TSC1 Source Address SAE J1939	1	0	255	231	DRS, VEPS	—
Two Spd Axle Second Axle Ratio	8	1	20	5.29	DRS, VEPS, DDDL 7.0	—
Vehicle Speed Sensor	8	0	8	4	DRS, VEPS, DDDL 7.0	0=no sensor, 1=C3 sensor, 2=square wave (hall sensor), 3=J1939 ETC1, 4=magnetic pickup vehicle speed sensor, 5=J1939 TCO, 6=J1939 CCVS Source1, 7=J1939 CCVS Source2, 8=J1939 CCVS Source3

Table C-1 DDEC VI Parameters

