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E.D.R. Control System I & II
Engine Parameter Settings

Caterpillar:

RPM Style: Variable

Remote RPM Switch Style: 3 Position (mom-on/off/mom-on)

Engine Manufacture: Caterpillar

Engine Models: 3126,C-7,C-9,C-10,C-12,C-15,C-16,3406E

ECM Model: Adam I, II, & III

Cruise Switch Configuration: Accel/Set & Decel/Resume

Idle Parameters: Idle Vehicle Speed Limit - (Set to Min. 10mph)

Idle RPM Limit - (Set to Max PTO Pump RPM)

Idle/PTO RPM Ramp Rate - 300 (rpm/sec)

Idle/PTO Bump RPM - 20 to 50 rpm

Dedicated PTO Parameters: PTO Configuration - Remote Switches

PTO Top Engine Limit - Set to Max PTO Pump RPM

PTO Engine RPM Set Speed - 0 rpm(Default)

PTO Engine RPM Set Speed A - 0 rpm(Default)

PTO Engine RPM Set Speed B - 0 rpm(Default)

PTO to Set Speed - No (Default)

PTO Cab Controls RPM Limit - Low Idle

PTO Vehicle Speed Limit - (Set to Min. 100 mph)

Torque Limit - 2500 lb-ft (Default)

PTO Shutdown Time - 0 minutes(Default)

PTO Shutdown Timer Maximum RPM - 2120 rpm (Default)

PTO Activates Cooling Fan - Continuous

Note: Some of these settings may have to be altered according to your customer's needs. The above settings are the basic settings that seem to work well.

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E.D.R. Control System I & II
Engine Parameter Settings

Caterpillar:

RPM Style: SET Speed

Remote RPM Switch Style: 2 position (on/off)

Engine Manufacture: Caterpillar

Engine Models: 3126,C-7,C-9,C-10,C-12,C-15,C-16,3406E

ECM Model: Adam I, II & III

Idle Parameters: Idle Vehicle Speed Limit - (Set to Min. 10mph)

Idle RPM Limit - (Set to Max PTO Pump RPM)

Idle/PTO RPM Ramp Rate - 1000 (rpm/sec)

Idle/PTO Bump RPM - 20 to 50 rpm

Dedicated PTO Parameters: PTO Configuration - Remote Switches

PTO Top Engine Limit - Set to Max PTO Pump RPM

PTO Engine RPM Set Speed - Set to Max PTO Pump RPM

PTO Engine RPM Set Speed A - 0 rpm(Default)

PTO Engine RPM Set Speed B - 0 rpm(Default)

PTO to Set Speed - Yes

PTO Cab Controls RPM Limit - Low Idle

PTO Vehicle Speed Limit - (Set to Min. 100 mph)

Torque Limit - 2500 lb-ft (Default)

PTO Shutdown Time - 0 minutes(Default)

PTO Shutdown Timer Maximum RPM - 2120 rpm (Default)

PTO Activates Cooling Fan - Continuous

Note: Some of these settings may have to be altered according to your customer's needs. The above settings are the basic settings that seem to work well.

E.D.R. Control System I & II
Engine Parameter Settings

V-Mac III

RPM Style: Variable

Remote Switch Style: 3 position (mom-on/off/mom-on)

Engine Manufacture: Mack

Engine Models: V-MAC III

ECM Model: V-MAC III

PTO 1 Settings

Min Set Speed - 475 rpm (default)

Max Set Speed - Set it to Max PTO Pump Speed

Max Road Speed - 10 mph

Engine Speed Limit - Set to Max PTO Pump Speed

Preset Speed - 1000 rpm (default)

Single Speed Control - OFF

Park Brake Check to Enable PTO - Custom

Standard Ramp Rate - Custom RPM/Sec

Accel Bump Speed - 20 to 50 RPM

Decel Bump Speed - 20 to 50 RPM

Hold to the Nearest - 5 RPM

Accel Ramp Rate - 300 RPM

Decel Ramp Rate - 300 RPM

PTO 1 Mode - Custom

PTO 1 Engage Requires PTO 2 - Ignore

PTO 1 Drop out Requires PTO 2 - Ignore

PTO 1 Temp Drop Requires PTO 2 - Ignore

PTO 1 Engage Requires PTO 3 - N/A

PTO 1 Drop out Requires PTO 3 - N/A

PTO 1 Temp Drop Requires PTO 3 - N/A

PTO 1 Engage Requires PTO 4 - N/A

PTO 1 Drop Out Requires PTO 4 - N/A

PTO 1 Temp Drop Requires PTO 4 - N/A

PTO 1 Engage Requires Park Brake - Ignore

PTO 1 Drop Out Requires Park Brake - Ignore

PTO 1 Temp Drop Requires Park Brake - Ignore

PTO 1 Engage Requires Service Brake - Ignore

PTO 1 Drop Out Requires Service Brake - Ignore

PTO 1 Temp Drop Requires Service Brake - Ignore

PTO 1 Engage Requires Clutch - Ignore

PTO 1 Drop Out Requires Clutch - Pushed

PTO 1 Temp Drop Requires Clutch - Ignore

PTO 1 Engage Requires Control 1 - N/A

PTO 1 Drop Out Requires Control 1 - N/A

PTO 1 Temp Drop Requires Control 1 - N/A

PTO 1 Engage Requires Control 2 - N/A

PTO 1 Drop Out Requires Control 2 - N/A

PTO 1 Temp Drop Requires Control 2 - N/A

PTO 1 Autaset Status - NO

PTO 1 Jump To Min Speed - NO

PTO 1 Hold To Min Speed - NO

PTO 1 Drop Out Over Max Speed - NO

E.D.R. Control System I & II
Engine Parameter Settings

V-Mac III

RPM Style: SET Speed

Remote Switch Style: 2 Position Switch (on/off)

Engine Manufacture: Mack

Engine Models: V-MAC III

ECM Model: V-MAC III

PTO 1 Settings

Min Set Speed - 475 rpm (default)

Max Set Speed - Set it to Max PTO Pump Speed

Max Road Speed - 10 mph

Engine Speed Limit - Set to Max PTO Pump Speed

Preset Speed - Set to Max PTO Pump Speed

Single Speed Control - ON

Park Brake Check to Enable PTO - Custom

Standard Ramp Rate - Custom RPM/Sec

Accel Bump Speed - 20 to 50 RPM

Decel Bump Speed - 20 to 50 RPM

Hold to the Nearest - 5 RPM

Accel Ramp Rate - 300 RPM

Decel Ramp Rate - 300 RPM

PTO 1 Mode - Custom

PTO 1 Engage Requires PTO 2 - Ignore

PTO 1 Drop out Requires PTO 2 - Ignore

PTO 1 Temp Drop Requires PTO 2 - Ignore

PTO 1 Engage Requires PTO 3 - N/A

PTO 1 Drop out Requires PTO 3 - N/A

PTO 1 Temp Drop Requires PTO 3 - N/A

PTO 1 Engage Requires PTO 4 - N/A

PTO 1 Drop Out Requires PTO 4 - N/A

PTO 1 Temp Drop Requires PTO 4 - N/A

PTO 1 Engage Requires Park Brake - Ignore

PTO 1 Drop Out Requires Park Brake - Ignore

PTO 1 Temp Drop Requires Park Brake - Ignore

PTO 1 Engage Requires Service Brake - Ignore

PTO 1 Drop Out Requires Service Brake - Ignore

PTO 1 Temp Drop Requires Service Brake - Ignore

PTO 1 Engage Requires Clutch - Ignore

PTO 1 Drop Out Requires Clutch - Pushed

PTO 1 Temp Drop Requires Clutch - Ignore

PTO 1 Engage Requires Control 1 - N/A

PTO 1 Drop Out Requires Control 1 - N/A

PTO 1 Temp Drop Requires Control 1 - N/A

PTO 1 Engage Requires Control 2 - N/A

PTO 1 Drop Out Requires Control 2 - N/A

PTO 1 Temp Drop Requires Control 2 - N/A

PTO 1 Autosest Status - Yes

PTO 1 Jump To Min Speed - NO

PTO 1 Hold To Min Speed - NO

PTO 1 Drop Out Over Max Speed - Yes

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E.D.R. Control System I & II
Engine Parameter Settings

Volvo Vectro II

RPM Style: Variable

Remote Switch Style: 3 position (mom-on/off/mom-on)

Engine Manufacture: Volvo

Engine Models: VE 275/300

ECM Model: VECTRO II

Basic PTO Settings

Max Set ESPD - Set to Max PTO Pump Speed

PTO Resume ESPD - N/A

PTO Min Set ESPD - Minimum Engine Speed in PTO Mode

PTO Min Set VSPD - Minimum Vehicle Speed in PTO Mode

PTO Max Set VSPD - Maximum Vehicle Speed in PTO Mode

PTO Trim Factor - 300 rpm/sec

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E.D.R. Control System I & II
Engine Parameter Settings

Volvo Vectro II

RPM Style: SET Speed

Remote Switch Style: 2 position (on/off)

Engine Manufacture: Volvo

Engine Models: VE 275/300

ECM Model: VECTRO II

Basic PTO Settings

PTO Max. Set ESPD - Set to Max. PTO Pump Speed

PTO Min. Set ESPD - Set to Default Value

PTO 1 Settings

PTO 1 Enable Input - Yes

PTO 1 Enable Switch - Yes

PTO 1 Enable Parking Brake - No

PTO 1 Enable Brake - No

PTO 1 Enable Clutch - No

PTO 1 Resume ESPD - Set to Max PTO Pump Speed

PTO 1 Max Set VSPD - Maximum Vehicle Speed in PTO 1 Mode

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E.D.R. Control System I & II
Engine Parameter Settings

International Navpak

RPM Style: Variable

Remote Switch Style: 3 position (mom-on/off/mom-on)

Engine Manufacture: International

Engine Models: T 444E,DT 466E,DT 466E HT,530E,530E HT

ECM Model: Navpak

Power Take Off Control

PTO Mode - This can be set to either “Remote Operation Only” or Remote and In-Cab Operation.

PTO Max Vehicle Speed - 3 mph (Default)

PTO Incab Mode - Stationary Variable or None

PTO Incab Control - OFF

PTO Remote Throttle - OFF

Set Switch RPM - 700 (Idle)

Resume Switch RPM - 700 (Idle)

PTO RPM Ramp Rate - 300 rpm/sec

PTO Max RPM - Set This to Max PTO Pump Speed

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E.D.R. Control System I & II
Engine Parameter Settings

International Navpak

RPM Style: SET Speed

Remote Switch Style: 2 position (on/off)

Engine Manufacture: International

Engine Models: T 444E,DT 466E,DT 466E HT,530E,530E HT

ECM Model: Navpak

Power Take Off Control

PTO Mode - This can be set to either “Remote Operation Only” or Remote and In-Cab Operation.

PTO Max Vehicle Speed - 3 mph (Default)

PTO Incab Mode - Stationary Variable or None

PTO Incab Control - OFF

PTO Remote Throttle - OFF

Set Switch RPM - Set This to Max PTO Pump Speed

Resume Switch RPM - 700 (Idle)

PTO RPM Ramp Rate - 500 rpm/sec

PTO Max RPM - Set This to Max PTO Pump Speed

E.D.R. Control System I & II
Engine Parameter Settings

Cummins (Celect Plus)

RPM Style: Variable Speed

Remote Switch Style: 3 position (mom-on/off/mom-on)

Engine Manufacture: Cummins

Engine Models: ISB/ISB02/ISC/ISC02/ISL/ISL02/ISM/ISM02/ISX/ISX02/M11/N14

ECM Model: Celect Plus & CM850/870/875

Features 1:

Brake / Clutch PTO Disable - Check Off

Features 2:

Throttle Disable in PTO - Check Off

Governor Type: Variable Speed

PTO Options:

PTO/Remote PTO Enable - Check Off

Maximum PTO Speed - Set to Maximum PTO Pump Speed

Minimum PTO Speed - Set to Idle RPM

PTO Set Speed - Set to Idle RPM or to desired set speed

PTO Resume Speed - Set to Idle RPM

PTO Ramp Rate - 300 RPM

Remote PTO:

Remote PTO Speed - Set to Maximum PTO Pump Speed

E.D.R. Control System I & II
Engine Parameter Settings

Cummins (Celect Plus)

RPM Style: SET Speed

Remote Switch Style: 2 position (on/off)

Engine Manufacture: Cummins

Engine Models: ISB/ISB02/ISC/ISC02/ISL/ISL02/ISM/ISM02/ISX/ISX02/M11/N14

ECM Model: Celect Plus & CM850/870/875

Features 1:

Brake / Clutch PTO Disable - Check Off or Enable

Features 2:

Throttle Disable in PTO - Check Off or Enable

Governor Type: Variable Speed

PTO Options:

PTO/Remote PTO Enable - Check Off or Enable

Maximum PTO Speed - Set to Maximum PTO Pump Speed

Minimum PTO Speed - Set to Idle RPM

PTO Set Speed - Set to Maximum PTO Pump Speed

PTO Resume Speed - Set to Idle RPM

PTO Ramp Rate - 1000 RPM

Remote PTO:

Remote PTO Speed - Set to Maximum PTO Pump Speed

Note: You may want to have more than one set speed. There up to five different remote RPM set speeds that can be programed in. After the set speeds are programed in, you will be able to toggle the RPM on/off switch to attain the programed RPM desired. Example, if you programed the following 1) 800 rpm 2) 900 rpm 3) 1000 rpm. To attain the 3rd rpm value (1000 rpm) you would toggle the switch on/off/on/off/on the engine will go to a 1000 rpm. The 2nd rpm can be attained by toggling the switch on/off/on. The 1st rpm can be attained by toggling the switch on.

E.D.R. Control System I & II
Engine Parameter Settings

Detroit DDEC III & IV

RPM Style: Variable Speed

Remote Switch Style: 3 position (mom-on/off/mom-on)

Engine Manufacture: Detroit

Engine Models: Series 60 & 50

ECM Model: DDEC III & IV

CRUISE CONTROL:

CRUZ SW VSG - YES

INIT RPM - SET TO IDLE SPEED

RPM INCR - 20 TO 50 RPM

VARIABLE SPEED GOVERNOR CALIBRATION:

VSG MIN RPM - SET TO IDLE RPM

VSG MAX RPM - SET TO MAXIMUM PTO PUMP SPEED

E.D.R. Control System I & II
Engine Parameter Settings

Detroit DDEC III & IV

RPM Style: SET SPEED

Remote Switch Style: 3 position (mom-on/off/mom-on)

Engine Manufacture: Detroit

Engine Models: Series 60 & 50

ECM Model: DDEC III & IV

CRUISE CONTROL:

CRUZ SW VSG - YES

INIT RPM - SET TO DESIRED SET SPEED

RPM INCR - 20 TO 50 RPM

VARIABLE SPEED GOVERNOR CALIBRATION:

VSG MIN RPM - SET TO IDLE RPM

VSG MAX RPM - SET TO MAXIMUM PTO PUMP SPEED

E.D.R. Control System I & II
Engine Parameter Settings

Mercedes-Benz (MBE)

RPM Style: Variable Speed

Remote Switch Style: 3 position Switch (Mom. on/off/Mom. on)

Engine Manufacture: MBE

Engine Models: MBE 190Hp - 450Hp

ECM Model: MBE

11008- Max Stand Still RPM - Set to Max PTO Speed

11101 - PTO Function - 1 - Enable

11102 - Max engine speed in PTO mode - Set to Max PTO Speed -

11104 - PTO Throttle Override - 0 - Disable

11105 - Max throttle speed in PTO mode - Set to Max PTO Speed -

11106 - Service Brake Dropout - 0 - Disable

11107 - Clutch Dropout - 0 - Disable

11108 - Max road speed - 100 mph

11109 - Max set speed - set to max PTO speed -

11110 - PTO Goveror Type - 2

11112 - Max Resume Speed - Set to Idle

11113 - PTO Governor Type - 2

11115 - PTO ramp rate - 300 RPM/Sec

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E.D.R. Control System I & II
Engine Parameter Settings

Mercedes-Benz (MBE)

RPM Style: Set Speed

Remote Switch Style: 3 position switch (On/Off)

Engine Manufacture: MBE

Engine Models: MBE 190Hp - 450Hp

ECM Model: MBE

11101 - PTO Function - 1 -Enable

11102 - Max PTO speed - Set to the Max PTO Speed

11104 - PTO Throttle Override - 0 - Disable

11106 - PTO Service Brake Override - 0 -Disable

11107 - PTO Clutch Override - 0 -Disable

11115 - PTO Ramp Rate - 1000 rpm/sec

11116 - Number of Remote PTO Speeds - 1

11117 - PTO Set Speed - Set to the Max PTO Speed

11118 - Governor Type - 2 - Variable Speed