

**EDRT**

**CATERPILLAR ENGINES**

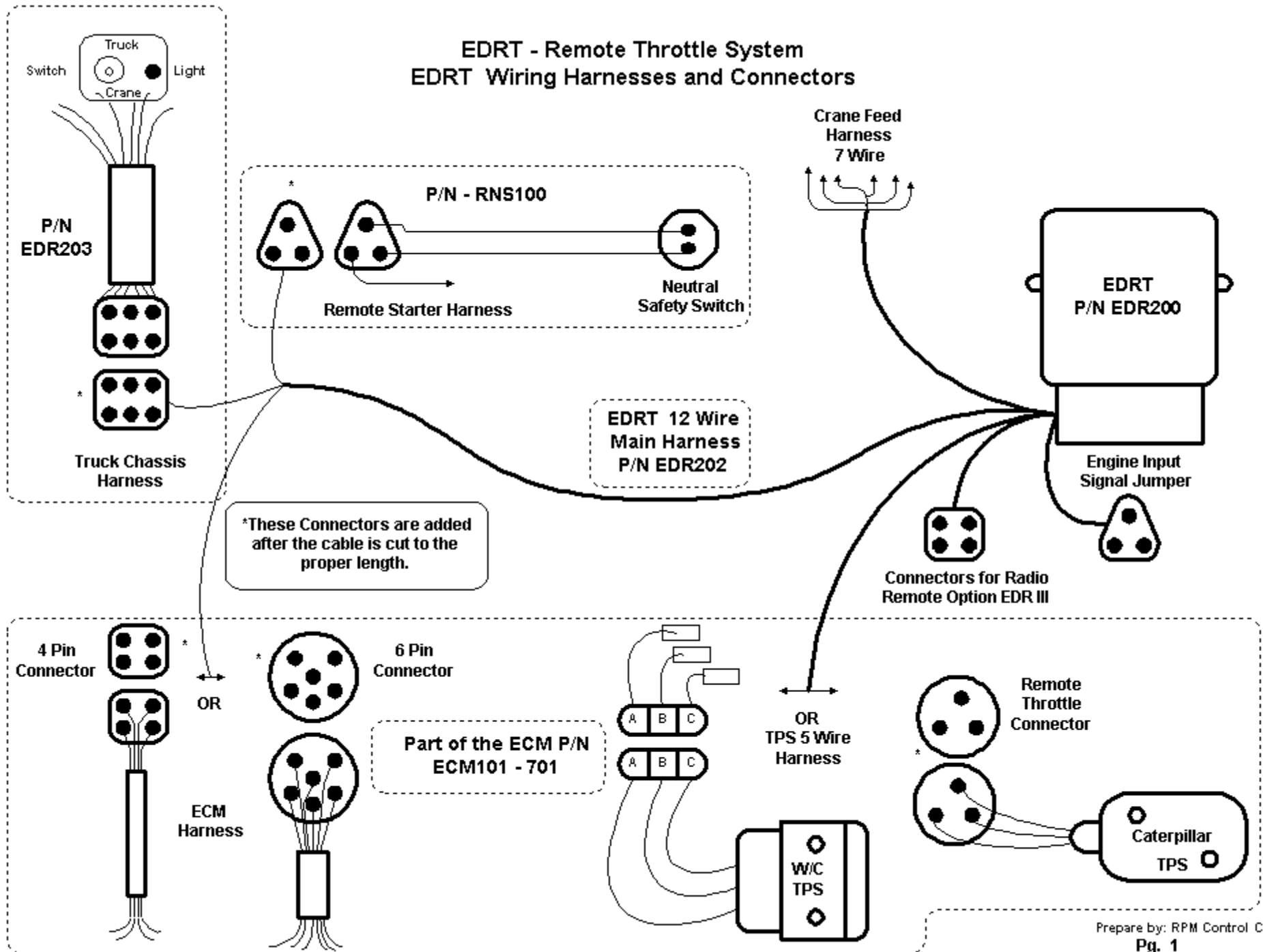
**MANUAL**

## Table of Contents

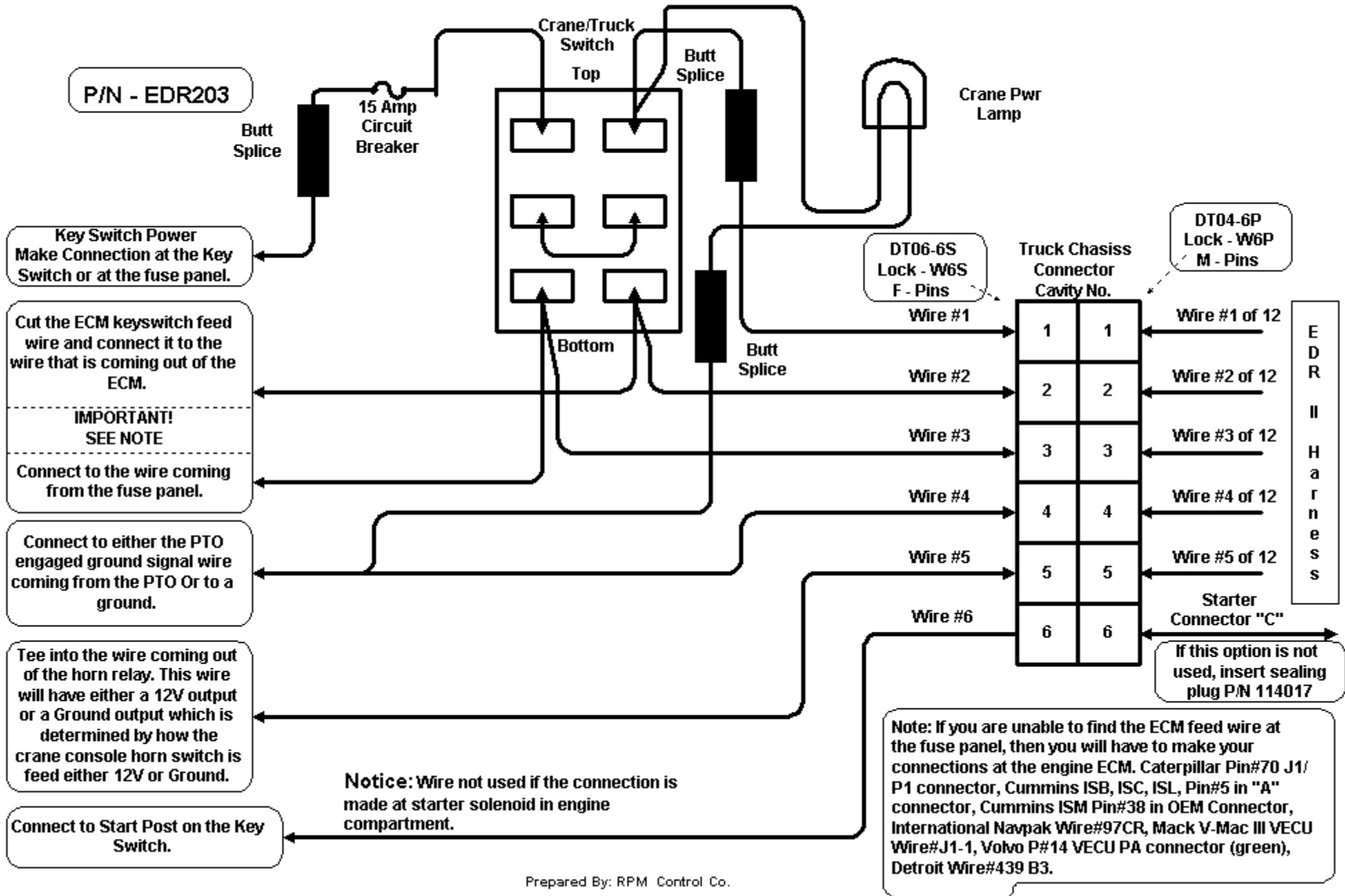
| <u>Description</u>  | <u>Page#</u> |
|---|--------------|
| The Overview of the EDRT - Remote Throttle System   | 1            |
| The Engine Input Configuration Plug   | 2            |
| The Dash Crane/Truck Switch & Chassis Harness Connections                                 | 3            |
| The ECM Connector Wire Arrangement for Remote Throttle & Set RPM for a Caterpillar Engine | 4            |
| The Truck Chassis Remote Neutral Start Wire Arrangement Using Starter Solenoid            | 5            |
| The Truck Chassis Remote Neutral Start Wire Arrangement Using Key Switch                  | 6            |
| The TPS Wire Arrangement For A Caterpillar  | 7            |
| The Crane Feed Harness Terminal Strip   | 8            |
| The Overall Schematic of the System   | 9            |
| The Remote Throttle Engine & Set RPM Parameters for Caterpillar                           | 10           |

# EDRT - Remote Throttle System

## EDRT Wiring Harnesses and Connectors

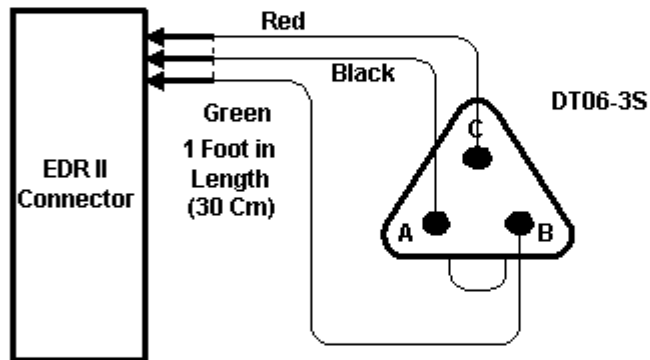


# EDRT - Remote Throttle System Dash Crane/Truck Switch & Chassis Harness Connections

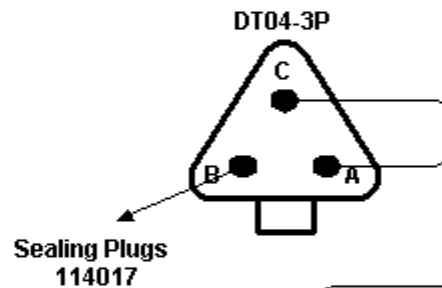


## Negative & Positive Engine Input Plug Configuration

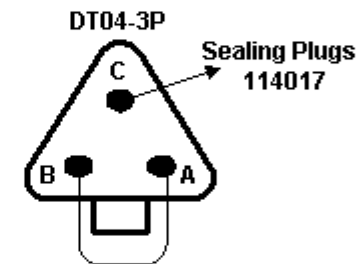
**IMPORTANT!** \_ The Engine Input Plug has to be configured properly to match the inputs needed by the engine's ECM that you are hooking up this system to. Refer to this diagram to determine the proper configuration of the Engine Input Plug. This **MUST** be done first before connecting the Main Harness to the EDRT. Failure to do this procedure properly may cause permanent damage to the engine's ECM.



### Negative Input Engines



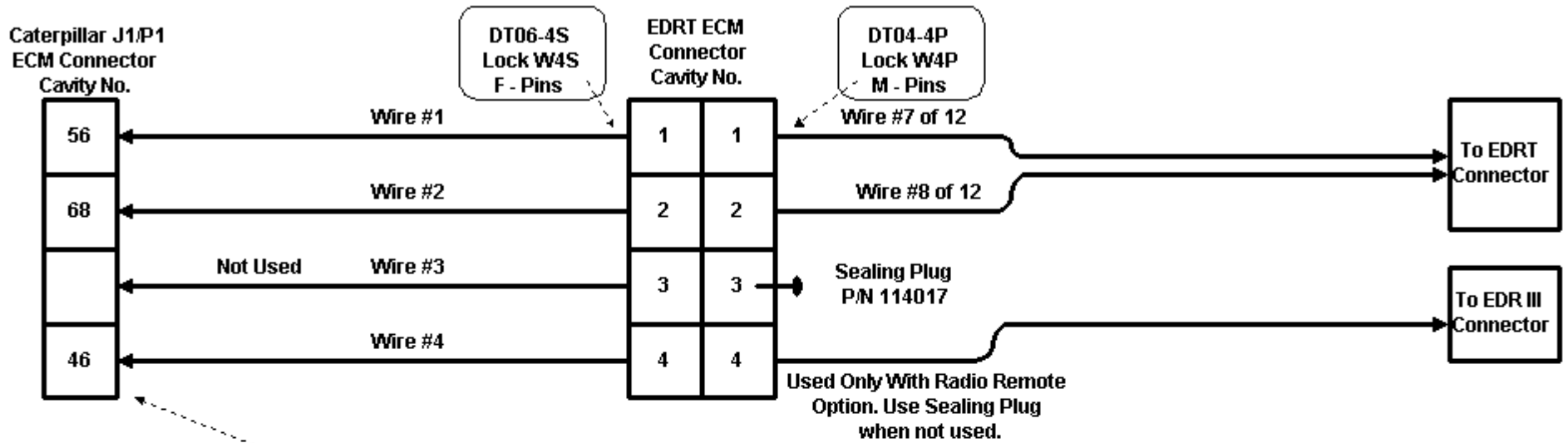
### Positive Input Engines



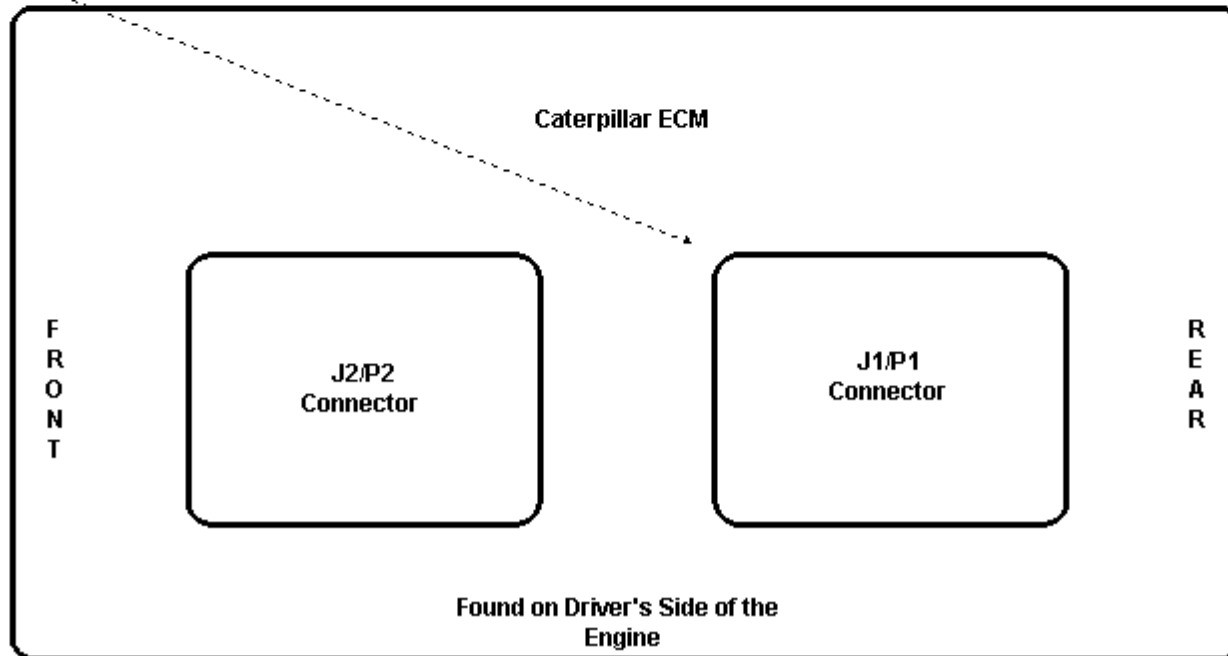
Configure the Engine Input Plug by using the table below.

| <u>Negative Input Engine</u>                       | <u>Positive Input Engine</u>         |
|--|--------------------------------------|
| Caterpillar<br>Cummins<br>Mercedes-Benz<br>Detroit | Mack V-Mac<br>Volvo<br>International |

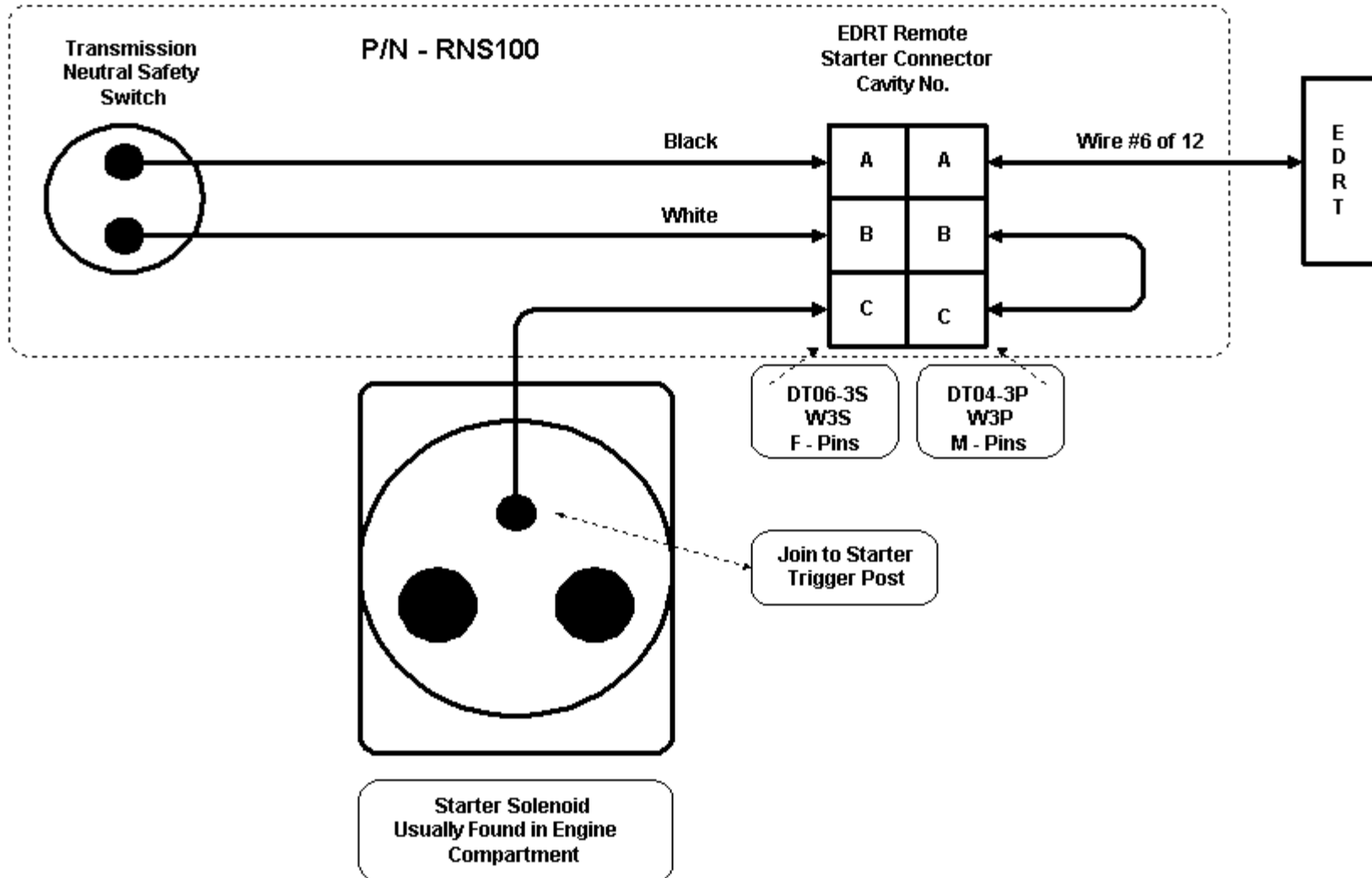
**EDRT - Remote Throttle System & Set RPM  
ECM Connector Wire Arrangements  
Caterpillar Engine  
P/N ECM100**



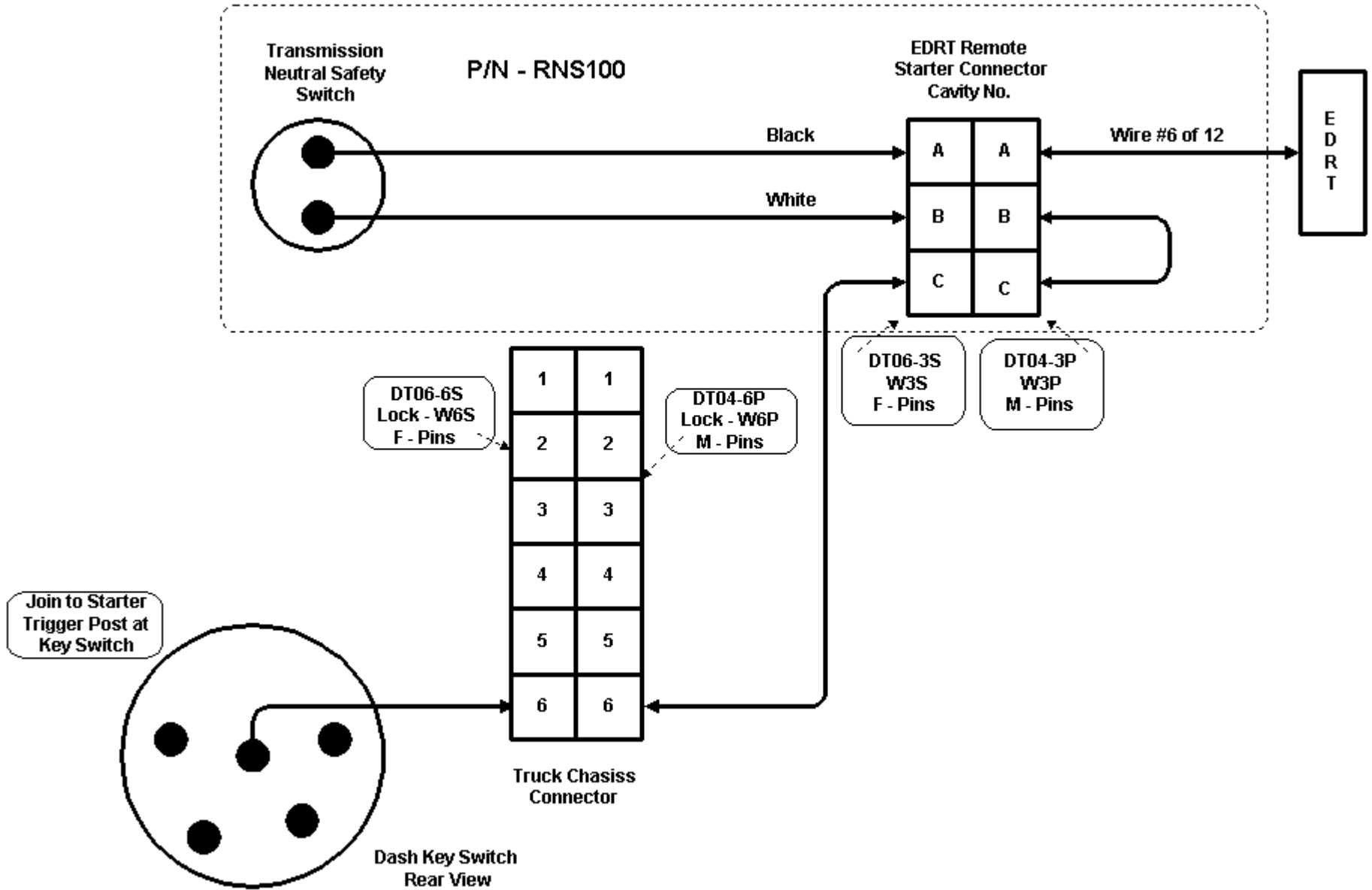
**Note:** If a ECM cavity is being used, tee into wire with a good sealed connector.



EDRT - Remote Throttle System  
Remote Start Wire Arrangements  
Truck Chassis at Starter Solenoid

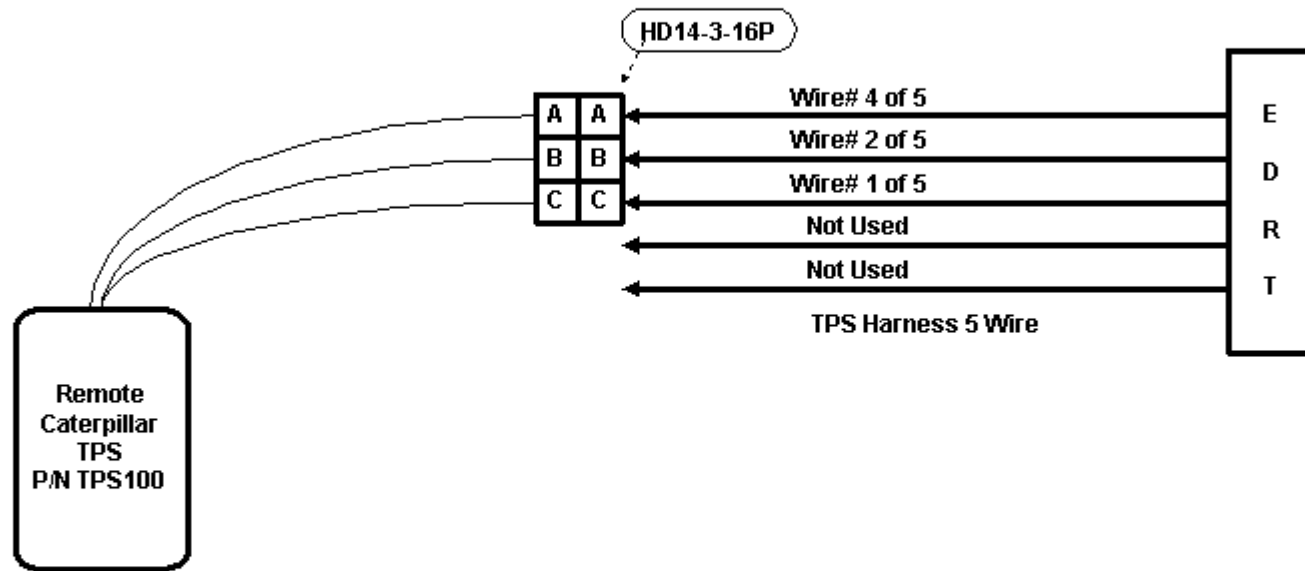


**EDRT - Remote Throttle System  
Remote Start Wire Arrangements  
Truck Chassis Key Switch Connection**

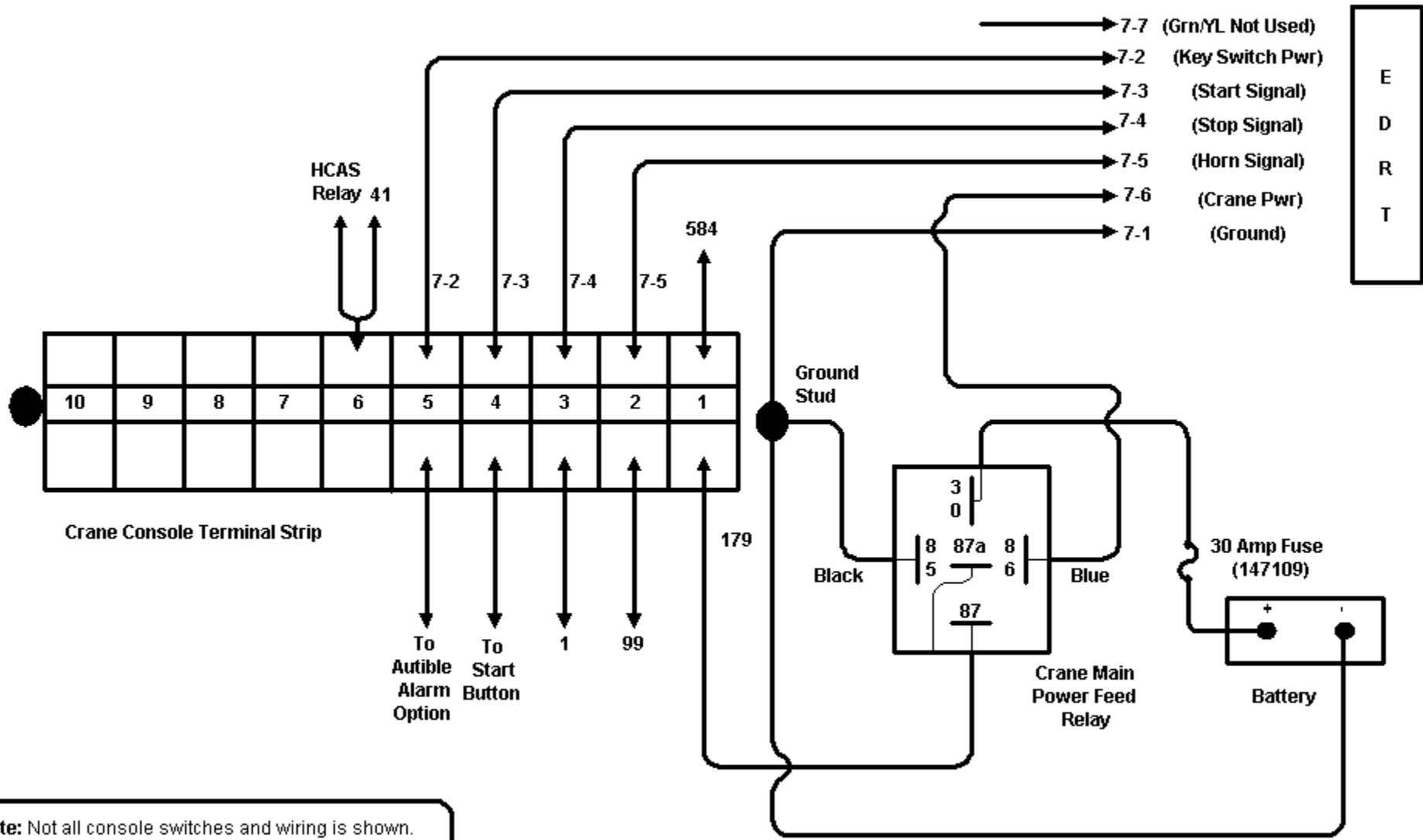




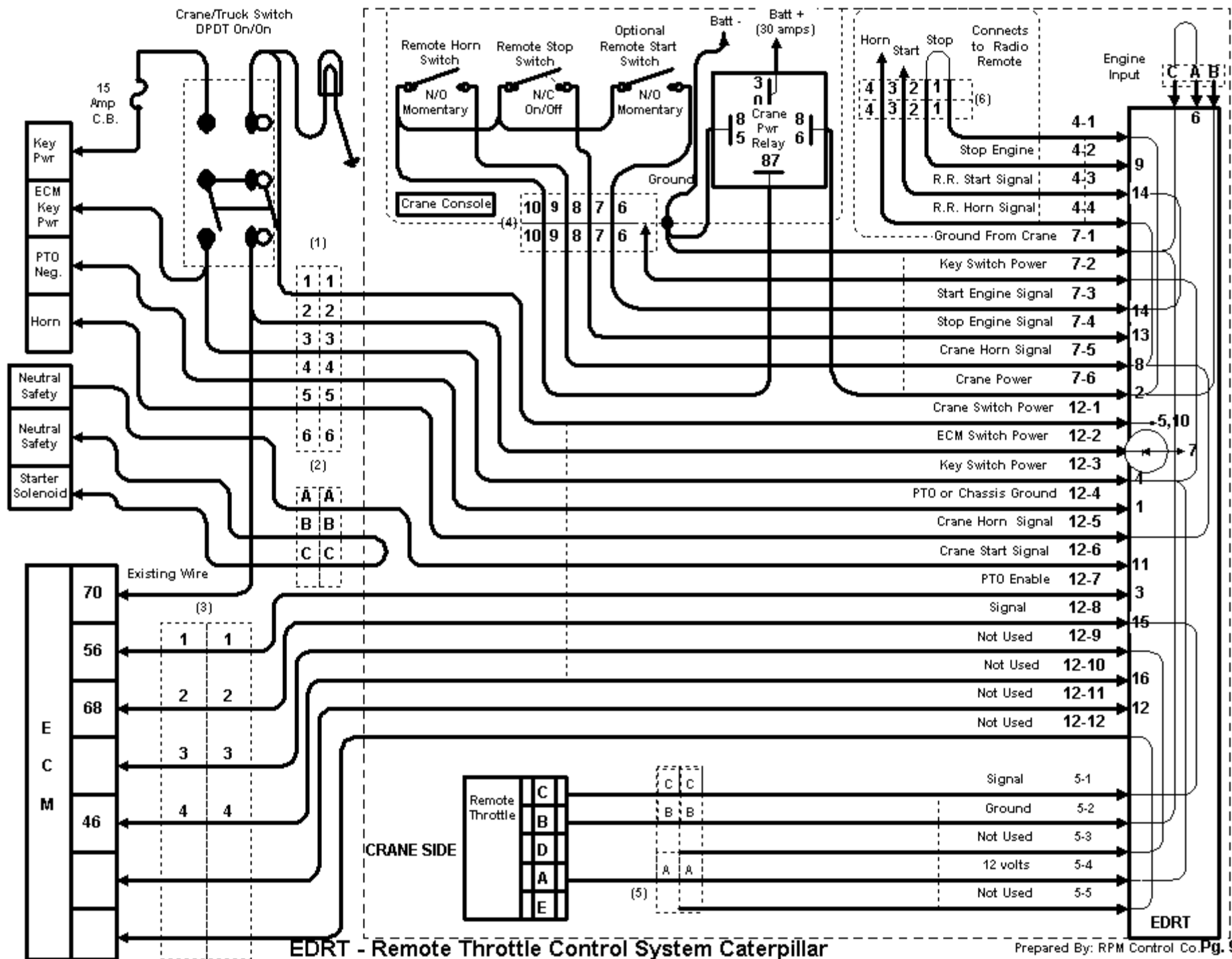
# EDRT - Remote Throttle System Caterpillar TPS Wire Arrangements



## EDRT - Remote Throttle System Crane Feed Harness



**Note:** Not all console switches and wiring is shown. Refer to the crane electrical schematic in the owner's manual



EDRT - Remote Throttle Control System Caterpillar

## **Engine Parameter Settings**

### **Caterpillar:**

**RPM Style:** Remote Throttle Pedal With One Set Speed

**Remote RPM Switch Style:** Throttle Pedal Sensor & On/Off Toggle Switch

**Engine Manufacture:** Caterpillar

**Engine Models:** 3126,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 or 1200 rpm)

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

Idle/PTO Bump RPM - N/A

**Dedicated PTO Parameters:** PTO Configuration - Remote Throttle

PTO Top Engine Limit - Set to Max PTO Pump RPM

PTO Engine RPM Set Speed - 0 rpm(Default)

PTO Engine RPM Set Speed A - Set Speed RPM

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 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

**Input Selections :** Input #2 - set to J1/P1:46

3126 - Input #7 - set to J1/P1:46

**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.