

PTO ENABLE

Integrate PTO operation with the transmission system for precise control and protection.



1.



2.

TRANSMISSION ELECTRONIC CONTROLS

- Engine speed
- Attained range
- Throttle position
- Output speed

3.



PTO SYSTEM

PTO integration made simple using the transmission electronic controls. Commands how and when the PTO engages. Monitors operating conditions to minimize potential damage and hazards.

OPERATING EXAMPLE

The operator requests PTO operation by pressing a switch. The transmission controller sees this signal, then looks to make sure that several operational conditions have been met, including transmission output speed, engine speed and throttle position. When all the appropriate conditions are correct, the transmission controller sends a signal which enables the PTO system. If the controller senses potentially damaging overspeed conditions, the PTO is commanded off until it can be safely re-engaged at a lower rpm.

FINE TUNING

The following items are available for adjustment:

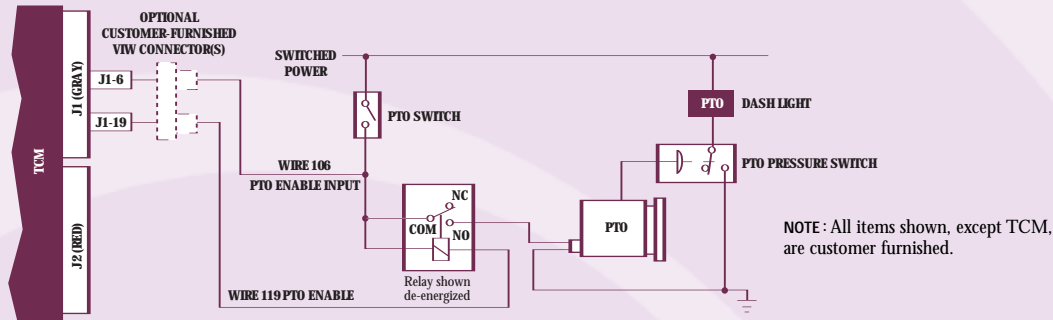
- Maximum engine speed for PTO engagement.
- Maximum engine speed for PTO operation.
- Maximum transmission output speed for PTO engagement.
- Maximum transmission output speed for PTO operation.
- Optional use of Mode button to activate the feature (not available for 1000 and 2000 Product Families).
- PTO speed at which lockup applies (1000 and 2000 Product Families only).

ALLISON GROUP AND PACKAGE INFORMATION

1000 AND 2000 PRODUCT FAMILIES

PTO ENABLE WITH NEUTRAL LOCKUP

Available in the North American Standard package for all models.



3000 AND 4000 PRODUCT FAMILIES

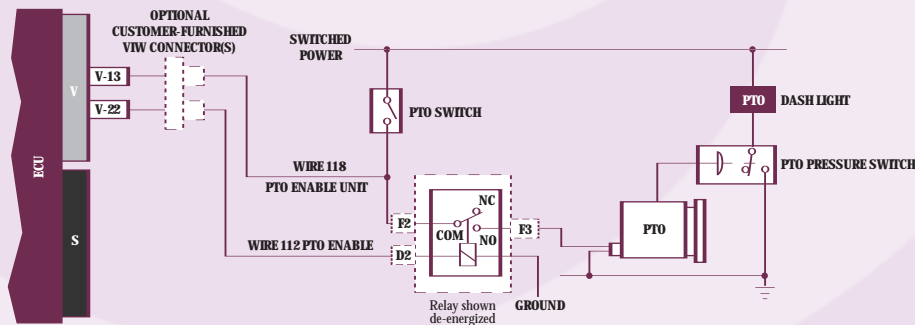
PTO ENABLE

Vocational Model Packages (STATUS for all = Enabled)

GROUP	PACKAGES	VOCATION
99 Rugged Duty Series	113 & 114	On-/Off-Highway
100 Rugged Duty Series	146	Construction
101 Rugged Duty Series	175	Construction
102 Rugged Duty Series	149 & 172	Utility
103 Rugged Duty Series	167 & 169	Street Sweeper
104 Rugged Duty Series	115 & 144	Refuse
105 Rugged Duty Series	142, 143 & 145	Refuse
106 Rugged Duty Series	168 & 170	Refuse
107 Emergency Vehicle Series	118, 119 & 120	Fire/Emergency
108 Emergency Vehicle Series	174	Fire/Emergency
110 Truck RV Series	113	Truck RV
112 Bus Series	147 & 148	Transit/Intercity Bus

Existing Packages (STATUS for all = Enabled)

GROUP	PACKAGES	VOCATION
70	113, 114, & 115	General Utility, P&D, Refuse, School Bus, Motorhome
71	118 & 119	Fire/Emergency
72	120	Fire/Emergency Special
73	142, 143, 144, 145 & 146	Refuse/Construction
74	147 & 148	P&D, School Bus, Intercity Bus
75	149 & 172	Premium Utility
77	152, 162, 168 & 170	Refuse, Fire/Emergency
92	167 & 169	Street Sweeper



PTO ENABLE PROTECTS NOT ONLY THE VEHICLE, TRANSMISSION AND THE PTO ITSELF — IT ALSO PROTECTS THE OPERATOR.

ADDITIONAL NOTES

- Feature-related components (switches, wires, connectors, etc.) and installation are the body builder's responsibility.
- Adjustments to Fine Tuning features (Customer Modifiable Constants) must be performed by reprogramming-certified personnel.
- OEM must specify whether or not the Mode button will be used to activate the feature (not available for 1000 and 2000 Product Families).
- Refer to your Allison Representative or Allison Sales Tech Data for the most current information.