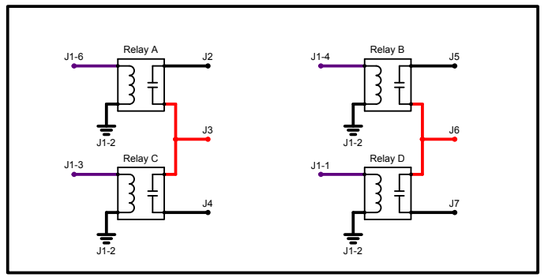
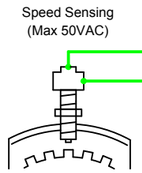
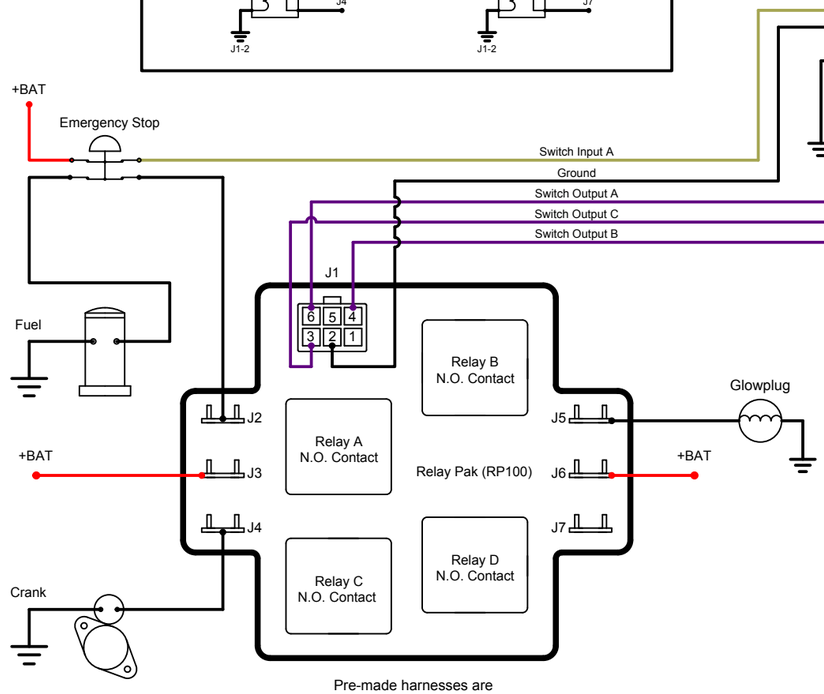
Relay Pak (RP100) Schematic Representation

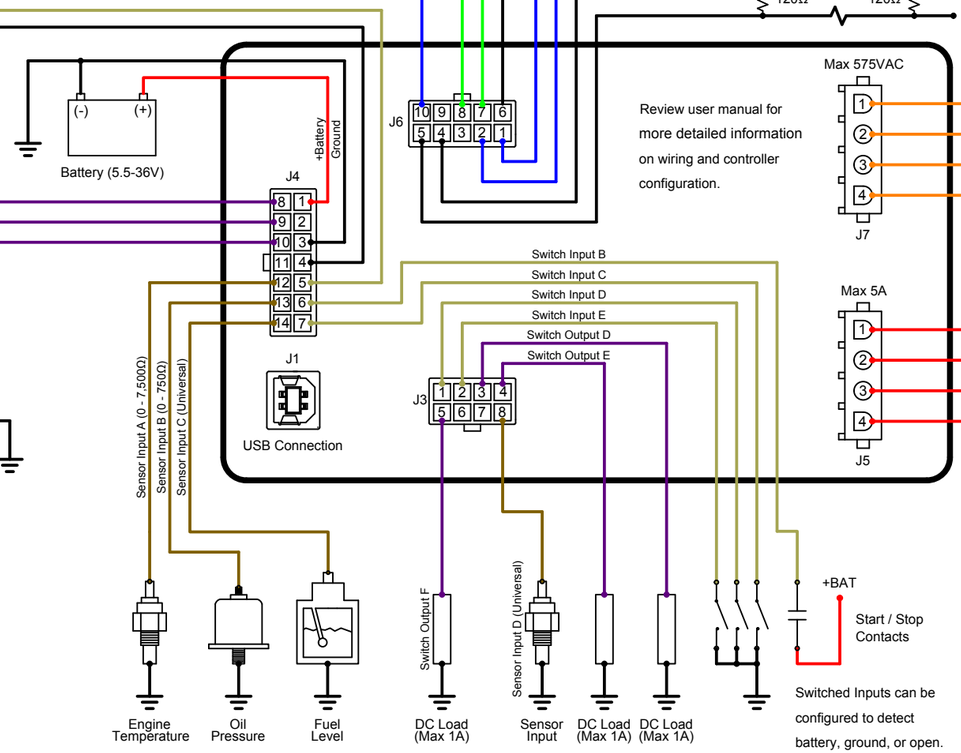


Speed Input is used with magnetic pickups, flywheel alternator, or tachometer. NOT required for generators or electronic engines.

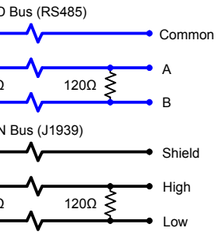




Pre-made harnesses are available. Contact Dynagen for more information.

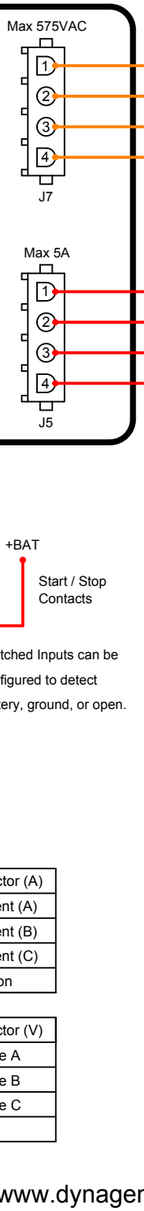


Switched Inputs can be configured to detect battery, ground, or open.

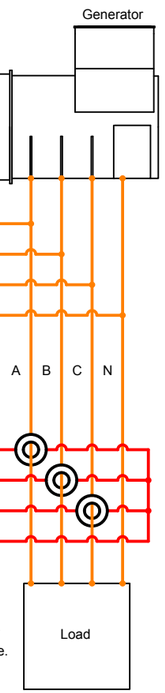


J1939 and RS485 require 120Ω impedance shielded twisted pair cable.
Example: Belden 7895A
Example: Belden 9841

Review user manual for more detailed information on wiring and controller configuration.



If current readings are unstable with this configuration, attempt connecting the CT Common's to the negative terminal of the battery. Ensure the connecting wire is as short as possible.



Relay Pak Connector	
J1-1	Relay D Coil
J1-2	-Battery
J1-3	Relay C Coil
J1-4	Relay B Coil
J1-5	Reserved
J1-6	Relay A Coil
J2	Relay A Contact
J3	A and C Common
J4	Relay C Contact
J5	Relay B Contact
J6	B and D Common
J7	Relay D Contact

Main Connector	
J4-1	+Battery
J4-2	+Battery
J4-3	Ground
J4-4	Ground
J4-5	Switch Input A
J4-6	Switch Input B
J4-7	Switch Input C
J4-8	Switch Output A
J4-9	Switch Output C
J4-10	Switch Output B
J4-11	Sensor Ground
J4-12	Sensor Input A
J4-13	Sensor Input B
J4-14	Sensor Input C

Expansion Connector	
J3-1	Switch Input D
J3-2	Switch Input E
J3-3	Switch Output D
J3-4	Switch Output E
J3-5	Switch Output F
J3-6	Sensor Power (5V)
J3-7	Sensor Ground
J3-8	Sensor Input D

Communication Connector	
J6-1	RS485-A
J6-2	RS485-B
J6-3	Reserved
J6-4	CAN High
J6-5	CAN Low
J6-6	CAN Ground
J6-7	Speed Input
J6-8	Speed Reference
J6-9	Reserved
J6-10	RS485 Ground

Generator Connector (A)	
J5-1	Gen. Current (A)
J5-2	Gen. Current (B)
J5-3	Gen. Current (C)
J5-4	CT Common

Generator Connector (V)	
J7-1	Gen. Phase A
J7-2	Gen. Phase B
J7-3	Gen. Phase C
J7-4	Neutral

DRAWING NOTES

NOTE 1:

NOTE 2:

NOTE 3:

NOTE 4:

NOTE 5:

NOTE 6:

NOTE 7:

NOTE 8:

Your application and wiring may vary. Refer to full user manual for detailed information on using your controller www.dynagen.ca/support.

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Project Name	Wiring Diagrams
Drawing Name	TG410 Example w/ RP100
Drawing Number	DWG1525
Drawing Revision	1.4.0
Drawing Scale	Not To Scale
Drawing Size	ANSI-B / Ledger
Created On	12/19/2012
Modified On	01/13/2014
Created By	Everett Pattison
Modified By	Everett Pattison