

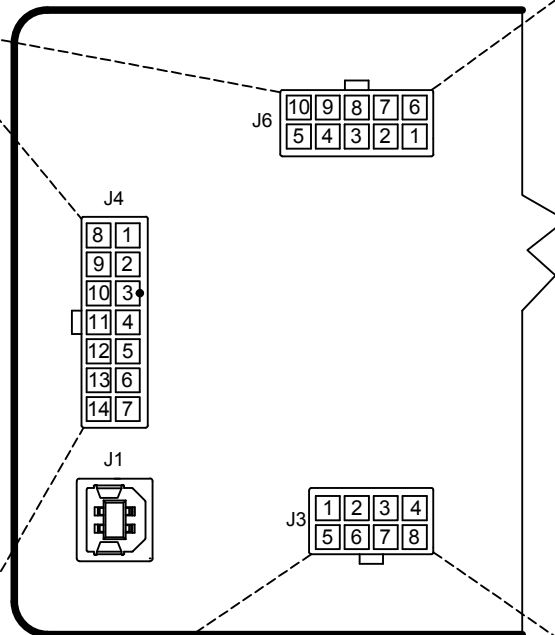
DWG1478 - TG350 Mag Pickup and J1939 Harness			
Terminal	Color	Wire Text	Description
J6-1			Not Populated
J6-2			Not Populated
J6-3			Not Populated
J6-4	White	CAN HIGH	CAN/J1939 High
J6-5	White	CAN LOW	CAN/J1939 Low
J6-6	White	CAN GND	CAN/J1939 Shield
J6-7	Green	SPEED INPUT	Speed Input
J6-8	Green	SPEED REF	Speed Reference
J6-9			Not Populated
J6-10			Not Populated

DWG1522 - TG410 Mag Pickup and Comm. Harness			
Terminal	Color	Wire Text	Description
J6-1	Blue	RS485 A	Modbus A (+)
J6-2	Blue	RS485 B	Modbus B (-)
J6-3			Not Populated
J6-4	Black	CAN HIGH	CAN/J1939 High
J6-5	Black	CAN LOW	CAN/J1939 Low
J6-6	Black	CAN GND	CAN/J1939 Shield
J6-7	Green	SPEED INPUT	Speed Input
J6-8	Green	SPEED REF	Speed Reference
J6-9			Not Populated
J6-10	Blue	RS485 GND	RS485 Common

DWG1475 / DWG1476 - Main IO Starter Harness

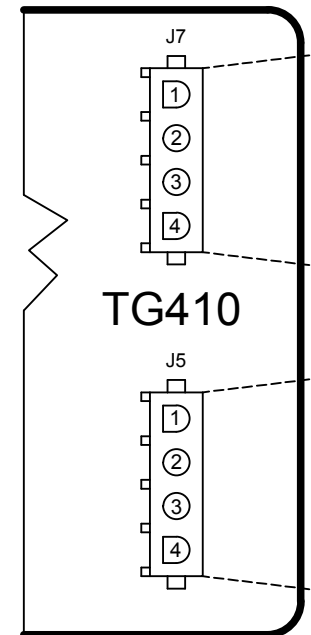
DWG1475 - With RelayPak			
Terminal	Color	Wire Text	Description
J4-1	Red	BATT POS	Battery Positive
J4-2			Not Populated
J4-3	Black	BATT NEG	Battery Negative
J4-4	Black	BATT NEG	RelayPak Coil -
J4-5	Tan	SW IN A	Switched Input A
J4-6	Tan	SW IN B	Switched Input B
J4-7	Tan	SW IN C	Switched Input C
J4-8	Purple	SW OUT A Fuel	RelayPak relay A
J4-9	Purple	SW OUT C Crank	RelayPak relay C
J4-10	Purple	SW OUT B	RelayPak relay B
J4-11	Brown	SEN GND	Sensor Ground
J4-12	Brown	SEN IN A	Sensor Input A
J4-13	Brown	SEN IN B	Sensor Input B
J4-14	Brown	SEN IN C	Sensor Input C

DWG1476 - Without RelayPak			
Terminal	Color	Wire Text	Description
J4-1	Red	BATT POS	Battery Positive
J4-2			Not Populated
J4-3	Black	BATT NEG	Battery Negative
J4-4			Not Populated
J4-5	Tan	SW IN A	Switched Input A
J4-6	Tan	SW IN B	Switched Input B
J4-7	Tan	SW IN C	Switched Input C
J4-8	Purple	SW OUT A	Switched Output A
J4-9	Purple	SW OUT C	Switched Output C
J4-10	Purple	SW OUT B	Switched Output B
J4-11	Brown	SEN GND	Sensor Ground
J4-12	Brown	SEN IN A	Sensor Input A
J4-13	Brown	SEN IN B	Sensor Input B
J4-14	Brown	SEN IN C	Sensor Input C



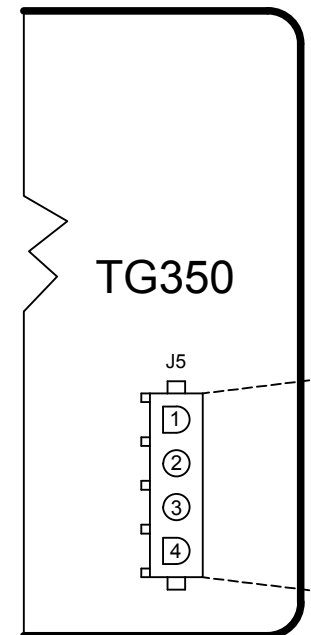
DWG1477 - Advanced IO Harness			
Terminal	Color	Wire Text	Description
J3-1	Tan	SW IN D	Switched Input D
J3-2	Tan	SW IN E	Switched Input E
J3-3	Purple	SW OUT D	Switched Output D
J3-4	Purple	SW OUT E	Switched Output E
J3-5	Purple	SW OUT F	Switched Output F
J3-6			Not Populated
J3-7	Brown	SEN GND	Sensor Ground
J3-8	Brown	SEN IN D	Sensor Input D

Terminal J3-3 is left unpopulated from the factory and can be populated using one of the two individual wires that came with the harness (a short one with two crimps on both sides and a long one with a crimp on one side and a pigtail on the other). If using relay D on the RelayPak insert one end of the short wire into J3-3 and the other end into RelayPak J1-1. If you are not using the relay pack insert the longer wire into J3-3.



DWG1479 - AC Voltage Sensing Harness			
Terminal	Color	Wire Text	Description
J5/7-1	Orange	PHASE A	Generator Voltage
J5/7-2	Orange	PHASE B	
J5/7-3	Orange	PHASE C	
J5/7-4	Orange	NEUTRAL	

DWG1518 - AC Current Sensing Harness			
Terminal	Color	Wire Text	Description
J5-1	Red	PHASE A	Gen. Current (A)
J5-2	Red	PHASE B	Gen. Current (B)
J5-3	Red	PHASE C	Gen. Current (C)
J5-4	Red	CT COMMON	CT Common



DWG1479 - AC Voltage Sensing Harness			
Terminal	Color	Wire Text	Description
J5/7-1	Orange	PHASE A	Generator Voltage
J5/7-2	Orange	PHASE B	
J5/7-3	Orange	PHASE C	
J5/7-4	Orange	NEUTRAL	

DRAWING NOTES	
NOTE 1:	
NOTE 2:	
NOTE 3:	
NOTE 4:	
NOTE 5:	
NOTE 6:	
NOTE 7:	
NOTE 8:	

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Project Name	Electrical Drawing
Drawing Name	Tough Series Harness Guide
Drawing Number	1547
Drawing Revision	1.1
Drawing Scale	Not to Scale
Drawing Size	ANSI B
Created ON (DD/MM/YYYY)	27/11/2014
Modified On (DD/MM/YYYY)	18/02/2015
Created By	Wesley Manning
Modified By	Wesley Manning