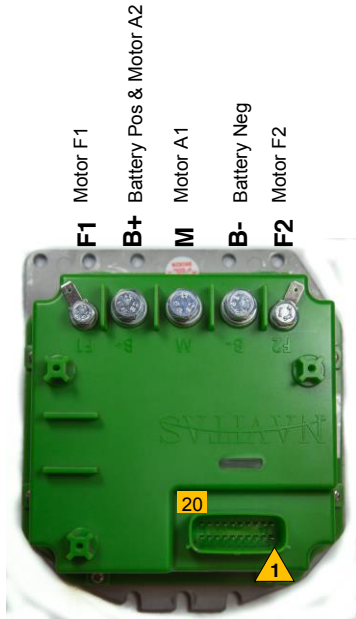


# TSX harness for Yamaha G19/G22

Navitas Part Number: 40-000514



Navitas TSX DC Shunt Controller

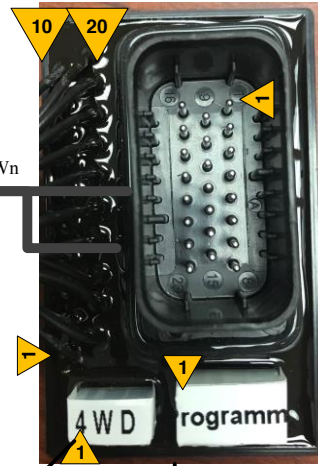
- P1: OTF LOCK
- P2: XCAN\_N
- P3: XCAN\_P
- P4: SPEED SENSOR SIGNAL
- P5: CHARGER INTERLOCK
- P6: REV IN
- P7: FWD IN
- P8: KEY
- P9: GND
- P10: LOGIC POWER
- P11: +5V EXT
- P12: OTF ACCELERATION
- P13: OTF SPEED
- P14: OTF REGEN
- P15: THROTTLE IN
- P16: +12V POLY
- P17: FOOT SWITCH
- P18: GND POLY
- P19: REVERSE BUZZER
- P20: LINE CONTACTOR



20 POS Molex  
TSX Connector

- P1: RED
- P2: RED/BLACK
- P3: WHITE
- P4: WHITE/BLACK
- P5: GREEN
- P6: GREEN/BLACK
- P7: BLUE
- P8: BLUE/BLACK
- P9: BROWN
- P10: BROWN/BLACK
- P11: ORANGE
- P12: ORANGE/BLACK
- P13: PURPLE
- P14: PURPLE/BLACK
- P15: PINK
- P16: PINK/BLACK
- P17: YELLOW
- P18: YELLOW/BLACK
- P19: GREY
- P20: GREY/BLACK

W  
Pinout: CPn= Wn



**Reserved**

- 3 POS Molex 39-30-1039
- P1: KEY
- P2: THROTTLE IN
- P3: FWD IN



Navitas PN: 10-000686  
OnTheFly Programmer

- P1: +12V PF
- P2: OTF Regen
- P3: OTF speed
- P4: OTF acceleration
- P5: +5V PF
- P6: OTF Lock
- P7: REV BUZ
- P8: AGND

**To OEM vehicle harness  
Yamaha G19/G22**

23 POS TE  
776228-1

- P1: (CP10) Logic Power
- P2: (CP5) Charger Interlock
- P3: (CP17) Foot Switch
- P4: (CP7) Fwd In
- P5: (CP6) Rev In
- P6: (CP8) Key
- P7: (CP15) Throttle In
- P8: (CP18) GND Poly
- P9: (CP11) +5V
- P10: (CP19) Reverse Buzzer
- P11: (CP20) Line Contactor
- P12: NA
- P13: NA
- P14: (CP4) Speed Sensor
- P15: (CP16) +12V
- P16: (CP18) GND Poly
- P17: (CP20) Line Contactor
- P18: NA
- P19: NA
- P20: NA
- P21: NA
- P22: NA
- P23: NA

CP=Controller Pinout