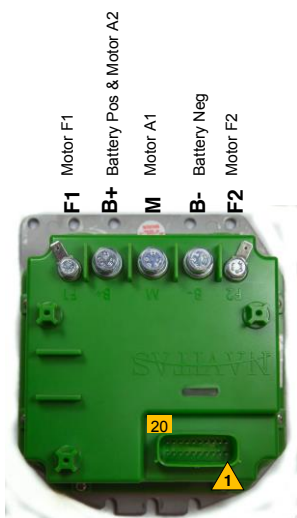


## TSX harness for Star EV Classic 36V

### Navitas Part Number: 40-000614



**Navitas TSX DC Shunt Controller  
J7 / CP**

- 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 Molded  
TSX Connector



20 POS Molded  
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

### Navitas PN: 10-000686 OnTheFly Programmer

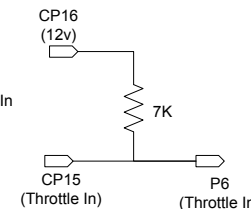


- P1: (CP16) +12V PF
- P2: (CP14) OTF Regen
- P3: (CP13) OTF speed
- P4: (CP12) OTF acceleration
- P5: (CP11) +5V PF
- P6: (CP1) OTF Lock
- P7: (CP19) REV BUZ
- P8: (CP18) AGND

### To OEM vehicle harness J5

16 POS Molex  
39-01-3163 Housing  
39-00-0095 Pin

- P1: NC
- P2: NC
- P3: NC
- P4: (CP20) Line Contactor
- P5: NC
- P6: (CP15) add 7K R to 12V-> Throttle In
- P7: (CP9) GND
- P8: NC
- P9: NC
- P10: NC
- P11: (CP6) Reverse In
- P12: (CP7) Forward In
- P13: NC
- P14: NC
- P15: (CP17) Foot Switch
- P16: (CP8,CP10,CP5) Key, Logic Power, Charger Interlock



20 POS Molded TSX Connector	8 POS Molex	16 POS Molex
Molded header	Housing 39-01-3089	Housing 39-01-3163
	Pin 39-00-0040	Pin 39-00-0095
	Boot	Boot
CP1: OTF LOCK	P6: (CP1) OTF Lock	
CP2: XCAN_N		
CP3: XCAN_P		
CP4: SPEED SENSOR SIGNAL		
CP5: CHARGER INTERLOCK		P16: (CP8,CP10,CP5) Key, Logic Power, Charger Interlock
CP6: REV IN		
CP7: FWD IN		P7: (CP9) GND
CP8: KEY		P16: (CP8,CP10,CP5) Key, Logic Power, Charger Interlock
CP9: GND		
CP10: LOGIC POWER		P16: (CP8,CP10,CP5) Key, Logic Power, Charger Interlock
CP11: +5V EXT	P5: (CP11) +5V PF	P11: (CP6) Reverse In
CP12: OTF ACCELERATION	P4: (CP12) OTF acceleration	P12: (CP7) Forward In
CP13: OTF SPEED	P3: (CP13) OTF speed	
CP14: OTF REGEN	P2: (CP14) OTF Regen	
CP15: THROTTLE IN		P6: (CP15) add 6.8K Resistor to (CP16) 12V-> Throttle In
CP16: +12V POLY	P1: (CP16) +12V PF	P6: (CP15) add 6.8K Resistor to (CP16) 12V-> Throttle In
CP17: FOOT SWITCH		P15: (CP17) Foot Switch
CP18: GND POLY	P8: (CP18) AGND	
CP19: REVERSE BUZZER	P7: (CP19) REV BUZ	
CP20: LINE CONTACTOR		P4: (CP20) Line Contactor