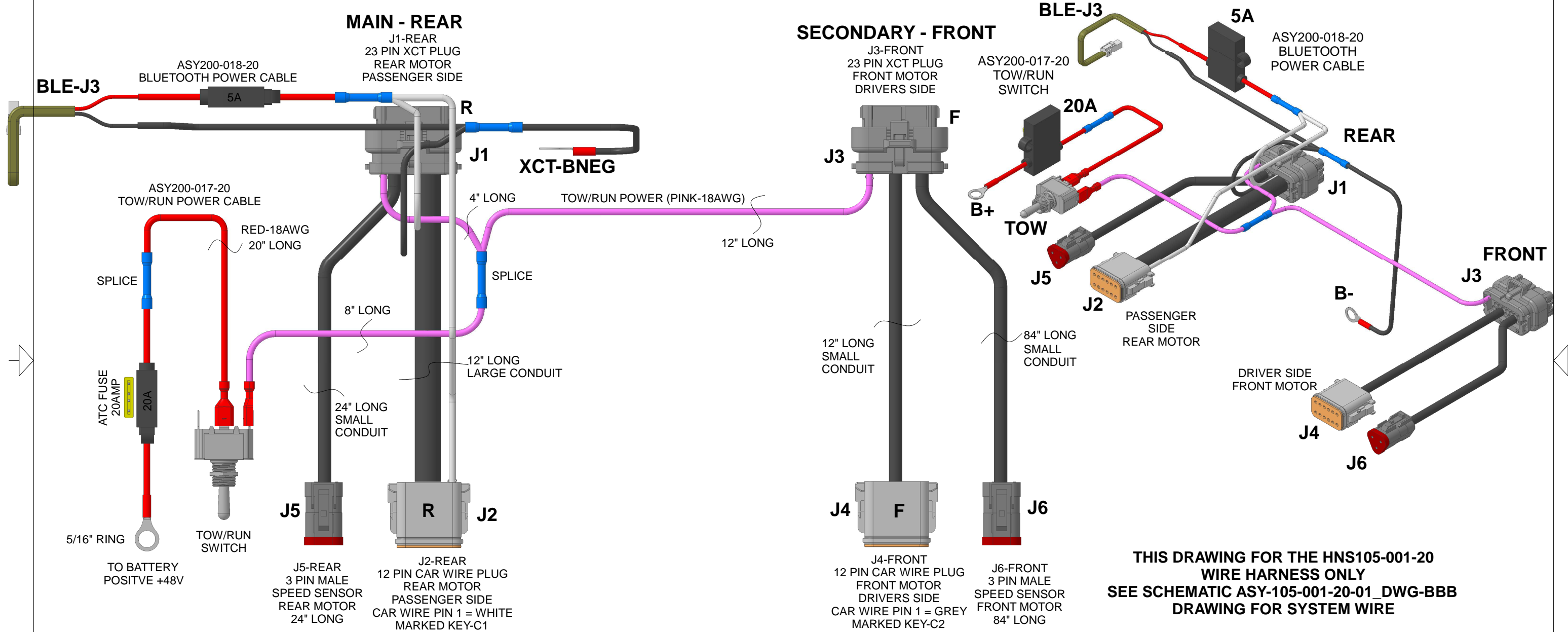


# BAD BOY BUGGIES (XT & XTO) XCT CONVERSION HNS105-001-20 WIRE HARNESS

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	INITIAL RELEASE EC-032120, BAD BOY XT AND XTO CARS UPDATED 6/09/2020 AS BUILT	7/29/2020	TT



**THIS DRAWING FOR THE HNS105-001-20 WIRE HARNESS ONLY  
SEE SCHEMATIC ASY-105-001-20-01\_DWG-BBB  
DRAWING FOR SYSTEM WIRE**

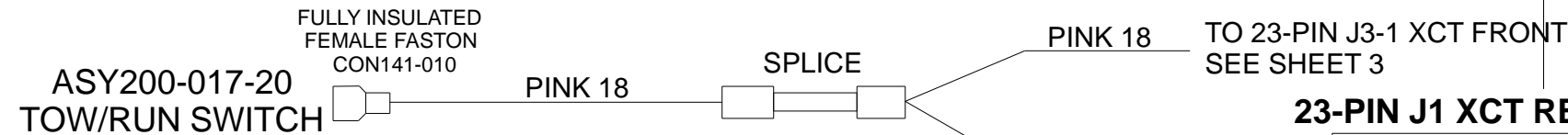
- XCT PROGRAMMING PROCEDURES:**
1. LOAD HEX: `_XCT MAIN_2BBB (V4.6)_hex`
  2. LOAD CONFIG: `Config-BBB-XT-XTO-V2`
  3. LOAD FIELD MAP  
    - \*\*REAR DA8-4013-R
    - \*\*FRONT DA7-4009-F
  4. CHG THROTTLE TO 0-5V
  5. CHG THROTTLE MAP TO 96%
  6. CHECK NORM/USER1/USER2  
    - \*FNKS-Settings\_4-23-2020
  7. SET FACTORY DEFAULTS

Tolerances:  
 0.x = ± 0.1"  
 0.xx = ± 0.03"  
 0.xxx = ± 0.005"  
 Angular: ± 1°  
 Edge Breaks: 0.01" - 0.015"

THESE DESIGNS AND SPECIFICATIONS ARE THE PROPERTY OF ALLTRAX INC AND SHALL NOT BE COPIED OR USED FOR MANUFACTURING WITHOUT IT'S WRITTEN CONSENT.  EC-032120	DRAWN T.THORNE	DATE 3/16/2020	<b>ALLTRAX INC</b>			
	CHECKED					
	MATERIAL:	QA		<b>DWG BAD BOY WIRE HARDNESS DUAL XCT CONTROLLERS 4WD</b>		
	FINISH:	MFG				
	APPROVED		SIZE <b>B</b>	FSCM NO.	DWG NO. HNS105-001-20-01	REV A
			SCALE 1:2		SHEET 1 of 3	

# REAR (MAIN) CONTROLLER

REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED

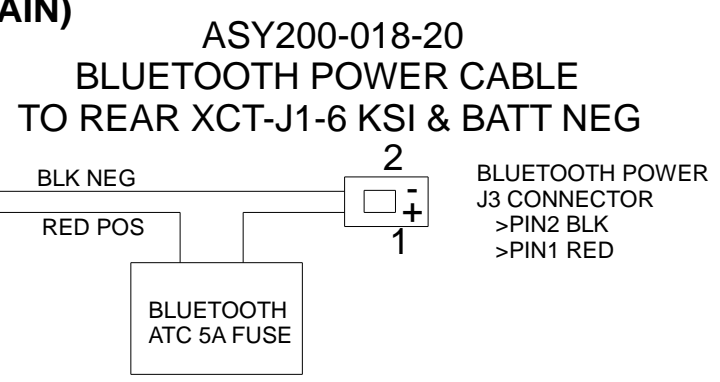


5/16 RING CONNECT TO MAIN XCT B- (MINUS) ONLY ON MASTER CONNECTOR THROTTLE NEG & BLUETOOTH NEG

12-PIN J2 PLUG REAR		23-PIN J1 XCT REAR (MAIN)	
1 KEY SW	WHT 20 (KEY-C1)	1 TOW/RUN	
2 FORWARD	YEL/GRN 20 (YEL/BLK)	19 REAR (B-) ONLY ON REAR CONNECTOR	
3 REVERSE	ORN 20	6 KEY SW	
4 FOOTSWITCH	BLUE 20	4 FORWARD	
5 INTERLOCK IN	NA	5-REVERSE	
6 INTERLOCK OUT	NA	3 FOOTSWITCH	
7 OPEN	NA	11 SOLENOID NEG	
8 SOLENOID NEG	BLK/ORN 20 (BLK/WHT)	7 THROT WIPER	
9 OPEN	NA	9 THROT +12V ONLY ON REAR CONNECTOR	
10 PEDAL IN 1	GRN 20	14 SPEED SIGNAL	
11 PEDAL IN 2	NA	15 SPEED +5V	
12 THROT +12V	RED/YEL 20 (RED/BLK)	16 SPEED NEG	

12-PIN DEUTSCH REAR HARNESS MALE W/SOCKET #DT06-12S  
**TO CAR WIRE HARNESS**

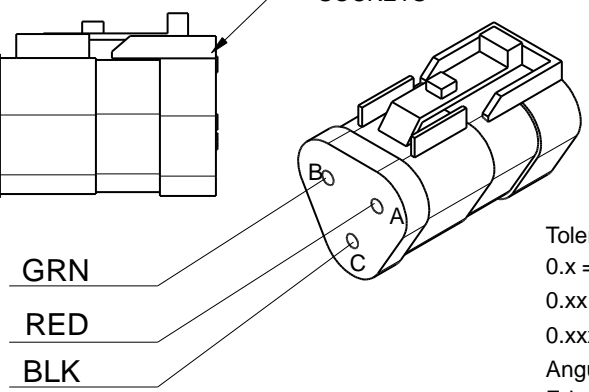
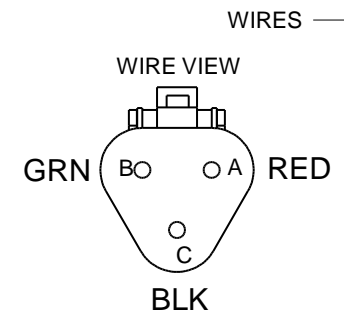
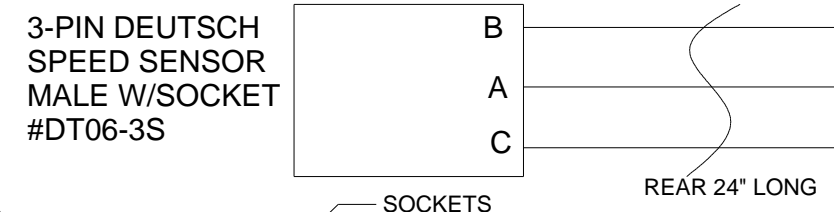
THROTTLE MEASUREMENTS:  
0.4V AT REST  
4.4V AT FLOOR  
27.5mA @12V input



**THIS DRAWING FOR THE HNS105-001-20 WIRE HARNESS ONLY  
SEE SCHEMATIC ASY-105-001-20-01 DRAWING FOR SYSTEM WIRE**

NOTE:  
PRIMARY WIRE COLOR  
(ALTERNATE WIRE COLORS)

## J5 REAR SPEED SENSOR



Tolerances:  
0.x = ± 0.1"  
0.xx = ± 0.03"  
0.xxx = ± 0.005"  
Angular: ± 1°  
Edge Breaks: 0.01" - 0.015"

THESE DESIGNS AND SPECIFICATIONS ARE THE PROPERTY OF ALLTRAX INC AND SHALL NOT BE COPIED OR USED FOR MANUFACTURING WITHOUT IT'S WRITTEN CONSENT.	DRAWN T.THORNE	DATE 3/16/2020	<b>ALLTRAX INC</b>			
	CHECKED					
	QA		<b>DWG BAD BOY WIRE HARNESS XCT CONTROLLER</b>			
	MFG					
<b>MATERIAL:</b>	APPROVED		SIZE <b>B</b>	FSCM NO.	DWG NO. HNS105-001-20-01	REV A
<b>FINISH:</b>			SCALE 1:1		SHEET 2 of 3	

# FRONT CONTROLLER

PINK P/O ASY200-017-20  
TOW/RUN SWITCH

TO 23-PIN J1-1 XCT REAR PINK 18 (+48V BATT)  
SEE SHEET 2

FRONT CONTROLLER PIN-19 NOT CONNECTED - -

## 12-PIN J4 PLUG FRONT

1 KEY SW - - - - -	GRY 20 (KEY-C2)
2 FORWARD - - - - -	NA
3 REVERSE - - - - -	NA
4 FOOTSWITCH - - - - -	NA
5 INTERLOCK IN - - - - -	NA
6 INTERLOCK OUT	NA
7 OPEN - - - - -	NA
8 SOLENOID NEG - - - - -	BLK/ORN 20 (BLK/WHT)
9 OPEN - - - - -	NA
10 PEDAL IN 1 - - - - -	NA
11 PEDAL IN 2 - - - - -	NA
12 THROT +12V - - - - -	NA

12-PIN DEUTSCH  
REAR HARNESS  
MALE W/SOCKET  
#DT06-12S

**TO CAR  
WIRE HARNESS**

## 23-PIN J3 XCT FRONT

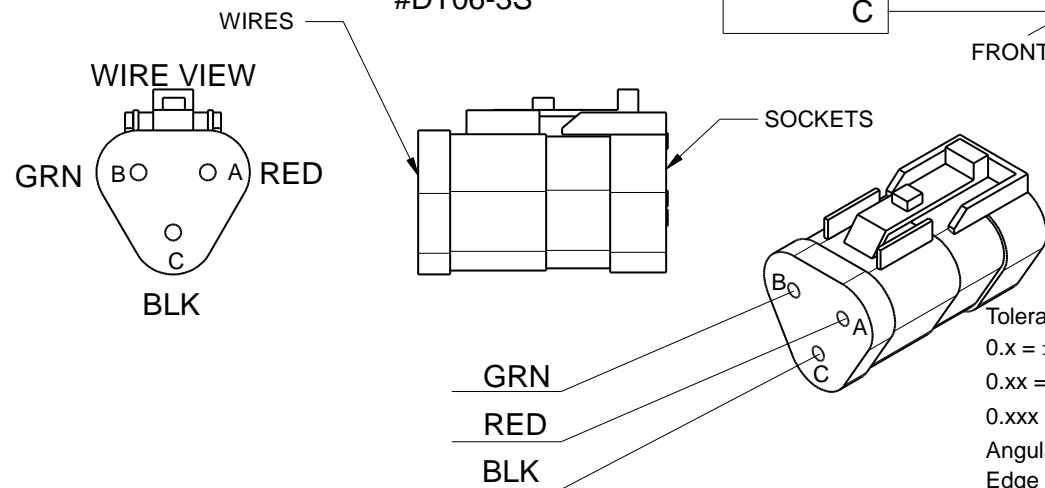
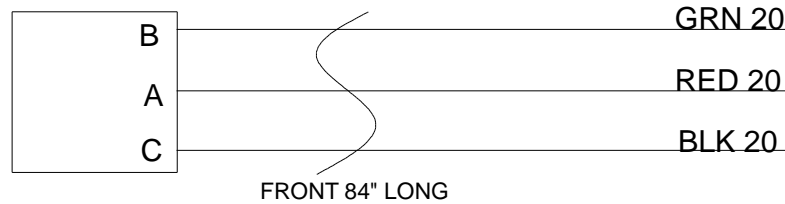
1 TOW/RUN
19 REAR (B-) ONLY ON REAR MAIN CONNECTOR
6 KEY SW
4 FORWARD
5-REVERSE
3 FOOTSWITCH
11 SOLENOID NEG
7 THROT WIPER
9 THROT +12V ONLY ON REAR CONNECTOR
14 SPEED SIGNAL
15 SPEED +5V
16 SPEED NEG

**THIS DRAWING FOR THE HNS105-001-20  
WIRE HARNESS ONLY  
SEE SCHEMATIC ASY-105-001-20-01  
DRAWING FOR SYSTEM WIRE**

NOTE:  
PRIMARY WIRE COLOR  
(ALTERNATE WIRE COLORS)

## J6 FRONT SPEED SENSOR

3-PIN DEUTSCH  
SPEED SENSOR  
MALE W/SOCKET  
#DT06-3S



Tolerances:  
0.x = ± 0.1"  
0.xx = ± 0.03"  
0.xxx = ± 0.005"  
Angular: ± 1°  
Edge Breaks: 0.01" - 0.015"

THESE DESIGNS AND SPECIFICATIONS ARE THE PROPERTY OF ALLTRAX INC AND SHALL NOT BE COPIED OR USED FOR MANUFACTURING WITHOUT IT'S WRITTEN CONSENT.	DRAWN T.THORNE	DATE 3/16/2020	<b>ALLTRAX INC</b>			
	CHECKED					
	QA		<b>DWG BAD BOY WIRE HARNESS XCT CONTROLLER</b>			
	MFG					
<b>MATERIAL:</b>	APPROVED		SIZE <b>B</b>	FSCM NO.	DWG NO. HNS105-001-20-01	REV A
<b>FINISH:</b>			SCALE 1:1		SHEET 3 of 3	