

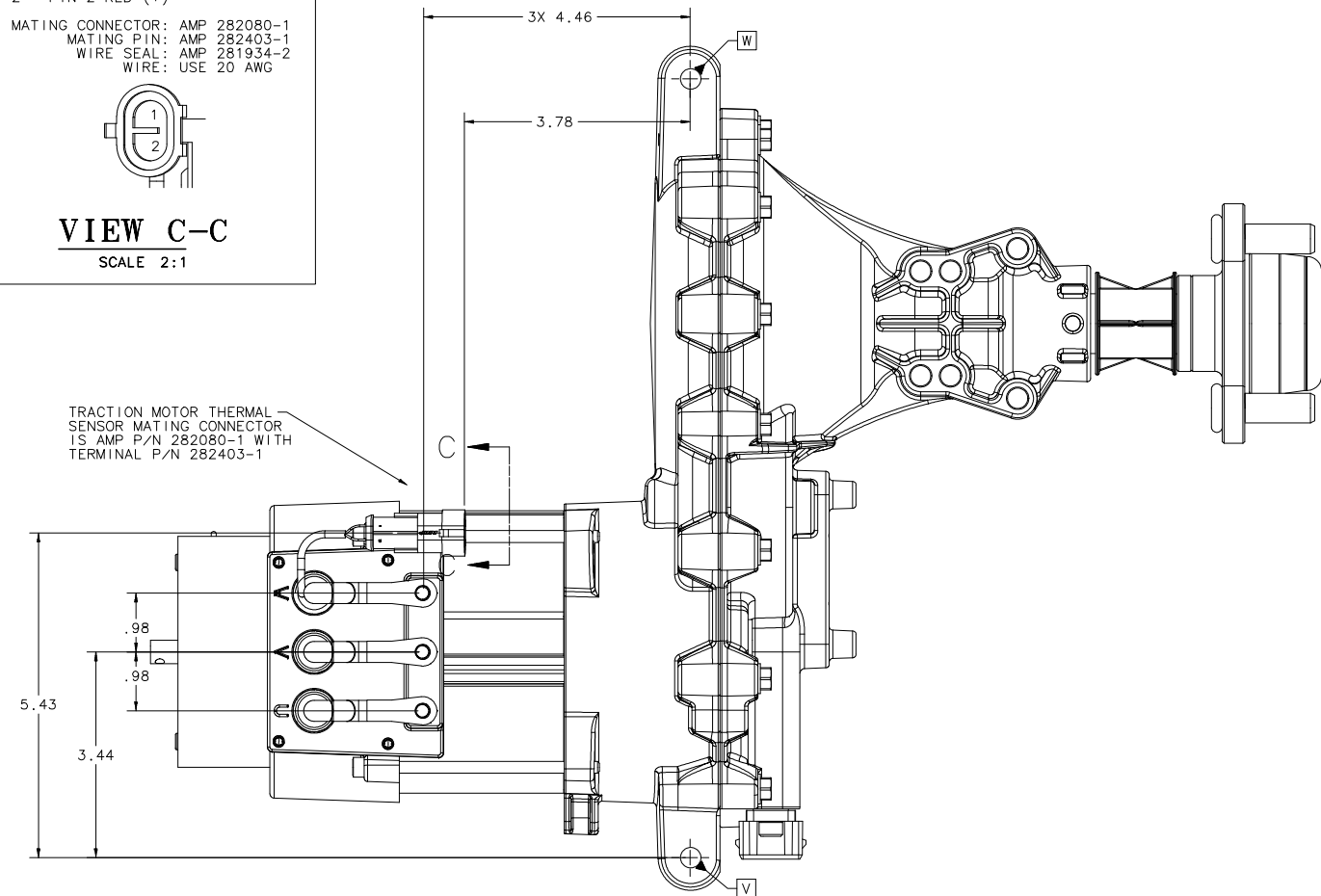
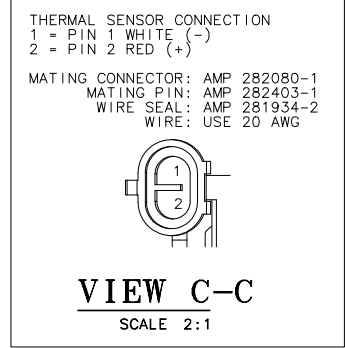
TECHNICAL DATA:

MAX. VEHICLE WEIGHT INCLUDING 200LB OPERATOR AND 50% FULL BAGGER: \leq 1000LBS	
MAX WEIGHT ON DRIVE TIRES	680 LBS
TIRE SIZE	18 INCH MAX.
CONTINUOUS OPERATING TORQUE	80 FT-LBS
PEAK TORQUE	322 FT-LBS
TRANSAXLE IP RATING	64
ELECTRIC MOTOR IP RATING	54

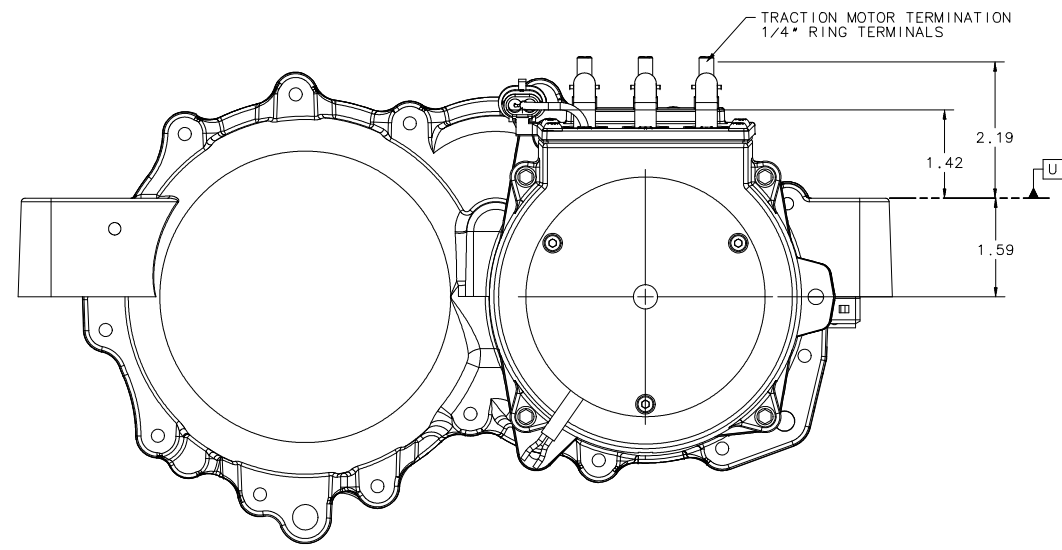
- NOTES:
- REFERENCE MATERIAL:
 MODEL NUMBER CONFIGURATION GUIDE: 72024
 BOM CONFIGURATION GUIDE: 71969
 PRODUCTION PARTS SCHEMATIC: 71799
 ELECTRICAL WIRING LAYOUT: 71953

WARNING: GOLD TERMINALS MUST MATE TO GOLD TERMINALS AND TIN TO TIN. PLEASE VERIFY THIS IN ALL HARNESSSES.

NOTICE - THIS DRAWING CONTAINS HYDRO-GEAR PROPRIETARY INFORMATION. NEITHER RECEIPT NOR POSSESSION THEREOF CONFERS ANY RIGHT TO REPRODUCE, USE, OR DISCLOSE, IN WHOLE OR PART, ANY SUCH INFORMATION WITHOUT WRITTEN AUTHORIZATION FROM HYDRO-GEAR. THE SPECIFICATIONS AND PRODUCT PROFILE DEPICTED HEREIN ARE APPROXIMATE REPRESENTATIONS SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATION. CONSULT YOUR HYDRO-GEAR REPRESENTATIVE TO OBTAIN THE ENGINEERING INFORMATION APPROPRIATE TO YOUR APPLICATION.

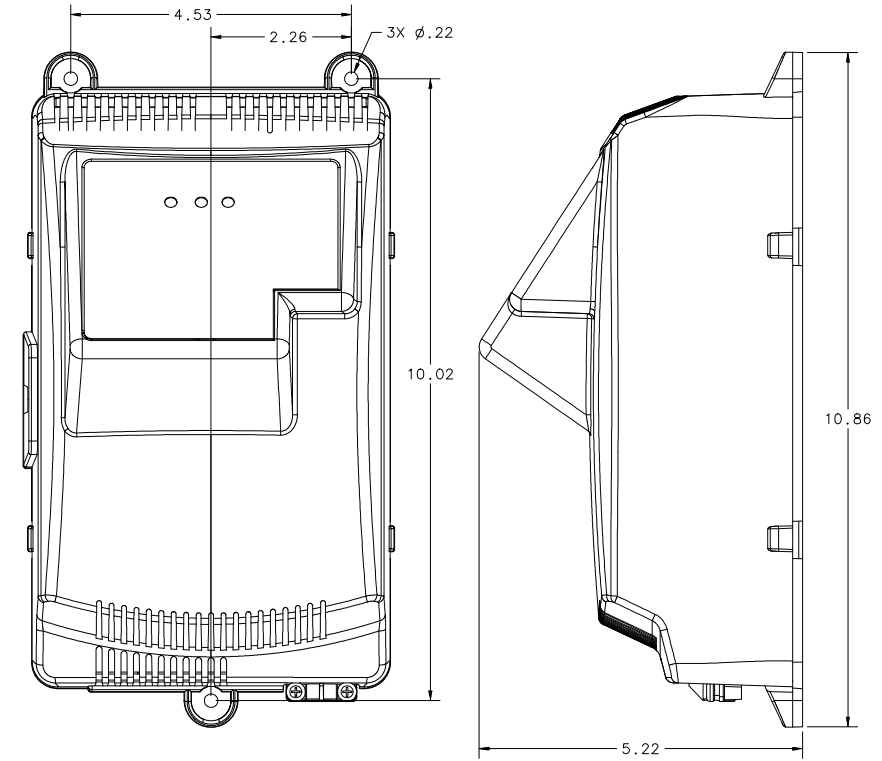


VIEW A-A
 SCALE 1:1

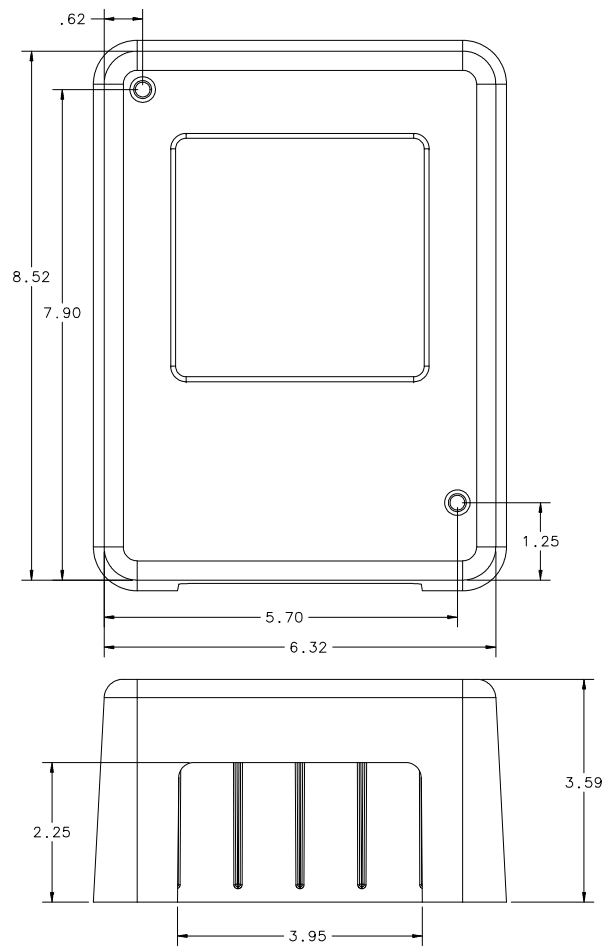


VIEW B-B
 SCALE 1:1

WARNING: GOLD TERMINALS MUST MATE TO GOLD TERMINALS AND TIN TO TIN. PLEASE VERIFY THIS IN ALL HARNESSSES.



100-240 VAC CHARGER
 P/N 53693 FOR LEAD ACID BATTERIES
 53694 FOR AGM BATTERIES



TRACTION CONTROLLER COVER
 P/N 52953

SHEET 2 OF 11

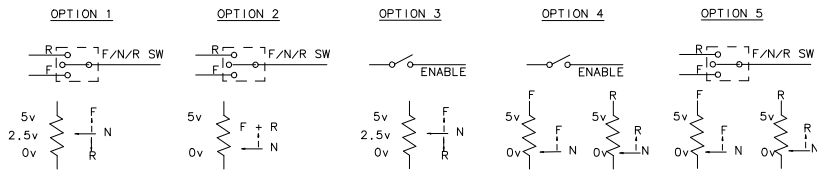
FRAME #	11-DEAS
DATE DRAWN	03/11/08
DRAWN BY	JLF
SCALE	FULL
REVISION DATE	05/03/12
PART NUMBER	71804

NAME ELECTRIC ZT SALES
 DRAWING

TRACTION CONTROLLER P/N 53318

TECHNICAL DATA

1. APPLICATION: CONSUMER ZT RIDERS AND WALK BEHINDS
2. MOUNTING REQUIREMENTS
 - a. THE CONNECTOR SIDE OF THE TRACTION CONTROLLER MUST BE PROTECTED FROM BEING SPRAYED WITH DIRECT WATER PRESSURE. SMARTEC TRACTION CONTROLLER COVER P/N 52953 IS AVAILABLE TO HELP PROTECT THE CONTROLLER.
 - b. IT IS RECOMMENDED THAT THE TRACTION CONTROLLER BE MOUNTED IN A VERTICAL OR STANDING POSITION WITH THE A AND B CONNECTORS AT THE BOTTOM. OR HORIZONTALLY WITH THE HEAT SINK FACING UP AND ALL CONNECTORS FACING EARTH.
 - c. THE MINIMUM HEAT SINK DESIGN IS TO USE AN UNPAINTED ALUMINUM PLATE THAT IS APPROXIMATELY (5.7" X 7.9" X 0.5"). APPLYING THERMAL GREASE OR A THERMAL TRANSFER PAD BETWEEN THE TRACTION CONTROLLER MOUNTING PLATE AND THE HEAT SINK IS REQUIRED TO FACILITATE ACCEPTABLE HEAT TRANSFER RATES.
 - d. THE MINIMUM HEAT SINK SPECIFIED IS FOR A MACHINE WEIGHT OF APPROXIMATELY 660lbs (300kg) RUNNING A DRIVE CYCLE OF MOWING, LEVEL 66.67%, TURNING 6.67%, TRANSPORTING 8.33%, 10° CLIMB 5%, 17° CLIMB 1.11%, TOWING SWEEPER 5.56% AND TOWING A CART 6.67% ON A 100°F AMBIENT TEMPERATURE DAY. THE GOAL IS TO ACHIEVE TEMPERATURE STABILIZATION WITHOUT EXCEEDING 78°C (172.4°F) INTERNAL TEMPERATURE OF THE TRACTION CONTROLLER.
3. SPECIFICATIONS:
 - a. CONTROLS A SINGLE SMARTEC ELECTRIC ZT TRANSAXLE; TWO CONTROLLERS REQUIRED PER VEHICLE.
 - b. INTERNAL HOUR METER CAN BE DISPLAYED ON THE SMARTEC VEHICLE DISPLAY P/N 53143
 - c. WEIGHT: 3.2LBS EACH
 - d. VOLTAGE: 48VDC
 - e. OPERATING/SWITCHING FREQUENCY: 8kHz
 - f. AMBIENT TEMPERATURE RANGE: -20°F to 110°F
 - g. MAXIMUM CONTROLLER TEMPERATURE: 212°F
 - h. THROTTLE
 - i. THROTTLE OPTIONS



ii. POTENTIOMETER

1. SMARTEC OFFERS A COMPLETE SOLUTION FOR OPTION 3 (SMARTEC P/N 53419).
2. THE THROTTLE UNIT CAN CONSIST OF A POTENTIOMETER OR A HALL EFFECT DEVICE. THE SENSOR SHOULD BE A 3-WIRE CONFIGURATION. POTENTIOMETER VALUE SHOULD BE IN THE 0.5 - 10 kΩ RANGE; GENERALLY, THE LOAD SHOULD BE IN THE 1.5mA TO 30mA RANGE. FAULTS CAN OCCUR IF IT IS OUTSIDE THIS RANGE.
3. THE PROCEDURE FOR CALIBRATING THE CONTROLLER WITH THE MINIMUM AND MAXIMUM USEFUL THROTTLE RANGE IS CARRIED OUT USING THE HYDRO-GEAR CALIBRATION TOOL P/N 53096. THIS PROCEDURE WILL BE REQUIRED ON EVERY VEHICLE MANUFACTURED, PRIOR TO INITIAL OPERATION.

iii. MICROSWITCHES

1. THE THROTTLE MICROSWITCHES MUST HAVE A CONTACT RESISTANCE LOWER THAN 0.1Ω AND A LEAKAGE CURRENT LOWER THAN 100μA.
2. WITH FULL LOAD CONNECTED, THE VOLTAGE BETWEEN THE SWITCH CONTACTS MUST BE LOWER THAN 0.1V.
3. THE MICROSWITCHES SEND A VOLTAGE SIGNAL TO THE TRACTION CONTROLLER WHEN A DRIVE REQUEST IS MADE.

4. VEHICLE PERFORMANCE PARAMETERS

- a. A TRACTION CONTROLLER VEHICLE MODEL NUMBER WILL BE ASSIGNED TO EACH UNIQUE SET OF VEHICLE PERFORMANCE PARAMETERS.
 - i. TRACTION CONTROLLER VEHICLE MODEL NUMBERS WILL BE ASSIGNED BY SMARTEC AS REQUIRED. THE MODEL NUMBERS WILL BE A 5 DIGIT NUMBER CONSISTING OF A SEQUENCE OF DIGITS RANGING FROM 1 TO 4.
 - ii. THIS MODEL NUMBER WILL BE REQUIRED TO BE ENTERED INTO EACH VEHICLE'S TRACTION CONTROLLER, UPON INITIAL POWER UP, USING THE SMARTEC CALIBRATION TOOL P/N 53096.

5. WIRE HARNESS REQUIREMENTS

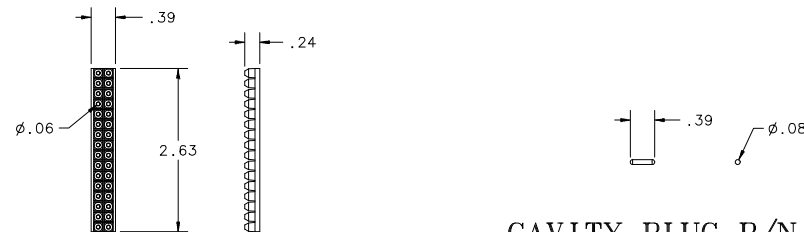
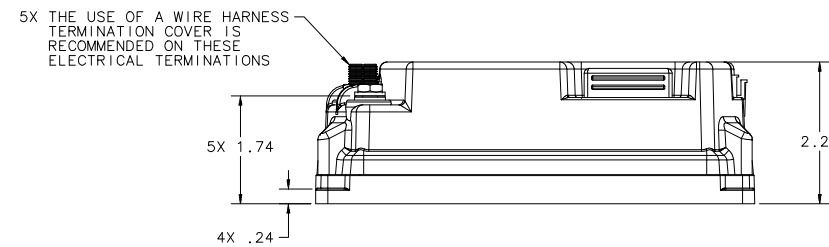
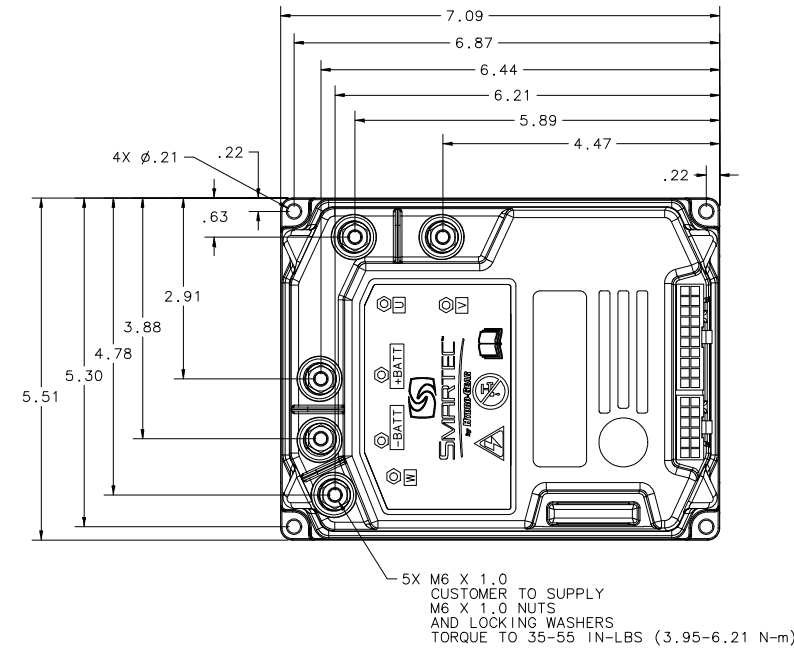
- a. IT IS NECESSARY TO USE A MAIN CONTACTOR IN-LINE TO BOTH CONTROLLER'S +48 VOLT POWER INPUTS TO PROTECT THE CONTROLLERS AGAINST REVERSE BATTERY POLARITY AND FOR SAFETY REASONS.
- b. CONNECTOR *A* MATING CONNECTOR IS MOLEX P/N 0039012120 WITH MOLEX TERMINAL P/N 5556 GOLD PLATED.
- c. CONNECTOR *B* MATING CONNECTOR IS MOLEX P/N 0039012200 WITH MOLEX TERMINAL P/N 5556 GOLD PLATED.
- d. CONNECTOR *A* AND *B* REQUIRE WIRE SEAL SMARTEC P/N 53135 (ONE 32 HOLE WIRE SEAL WILL BE CUT TO CREATE BOTH CONNECTOR SEALS).
- e. ALL EMPTY CONNECTOR CAVITIES MUST BE PLUGGED USING SMARTEC CONNECTOR CAVITY PLUG P/N 53159
- f. ALL CONTROLLER BOLT CONNECTIONS REQUIRE 1/4" (6mm) RING TERMINALS.
- g. ALL WIRES CONNECTED TO CONNECTORS *A* AND *B* MUST BE 20 AWG MINIMUM.
- h. ALL WIRES CONNECTED TO -B, +B, U, V, W, AND ALL WIRES CONNECTED BETWEEN THE BATTERIES MUST BE 5 AWG (.025in² [16mm²] CROSS SECTIONAL AREA) MINIMUM.
- i. FOR OPTIMUM CONTROLLER PERFORMANCE, THE CABLES TO THE BATTERY SHOULD BE RAN SIDE BY SIDE AND AS SHORT AS POSSIBLE.
- j. CAN-BUS WIRING MUST BE SHIELDED, WITH SHIELD TIED TO VEHICLE CHASSIS OR BATTERY GROUND. CAN-BUS WIRING MUST *NOT* BE ROUTED ALONG POWER WIRES. CAN-BUS WIRES MAY CROSS POWER WIRES PERPENDICULARLY, BUT MAY NOT RUN IN PARALLEL.

6. PROTECTION FEATURES

- a. PROTECTION AGAINST ACCIDENTAL START
- b. IF THE CONTROLLER TEMPERATURE EXCEEDS 173°F, THE MAXIMUM CURRENT IS REDUCED IN PROPORTION TO THE THERMAL INCREASE. THE CONTROL WILL SHUTDOWN COMPLETELY IF THE TEMPERATURE REACHES 212°F
- c. IF MOVEMENT IS COMMANDED WITH NO RESPONSE, THE VEHICLE WILL SHUTDOWN.
- d. LOW BATTERY SHUTDOWN - 80% DISCHARGE

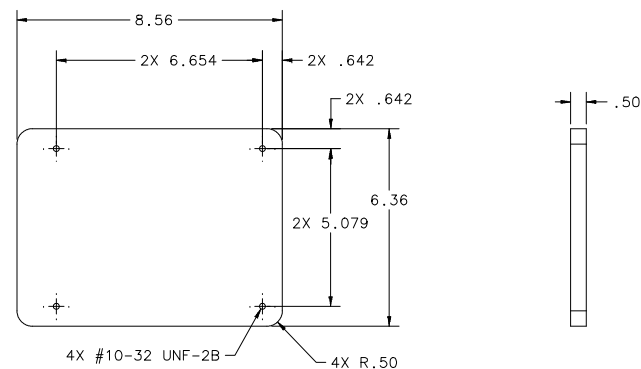
7. EMI TESTING:

- a. IT IS RECOMMENDED THAT COMPLETE EMC AND EMI TESTING OF ALL VEHICLES BE PERFORMED BEFORE PRODUCTION RELEASE.



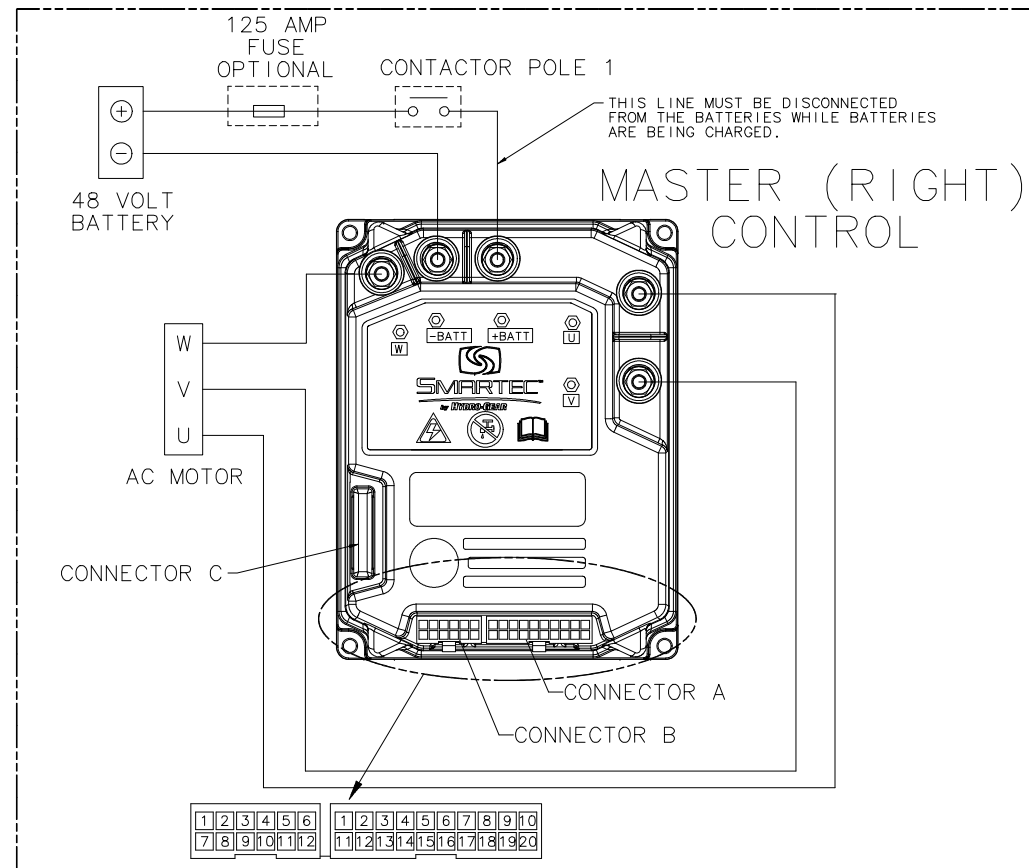
WIRE SEAL P/N 53135

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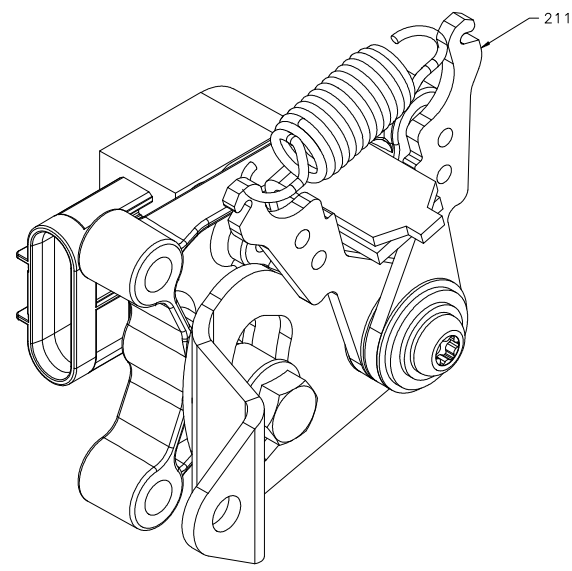
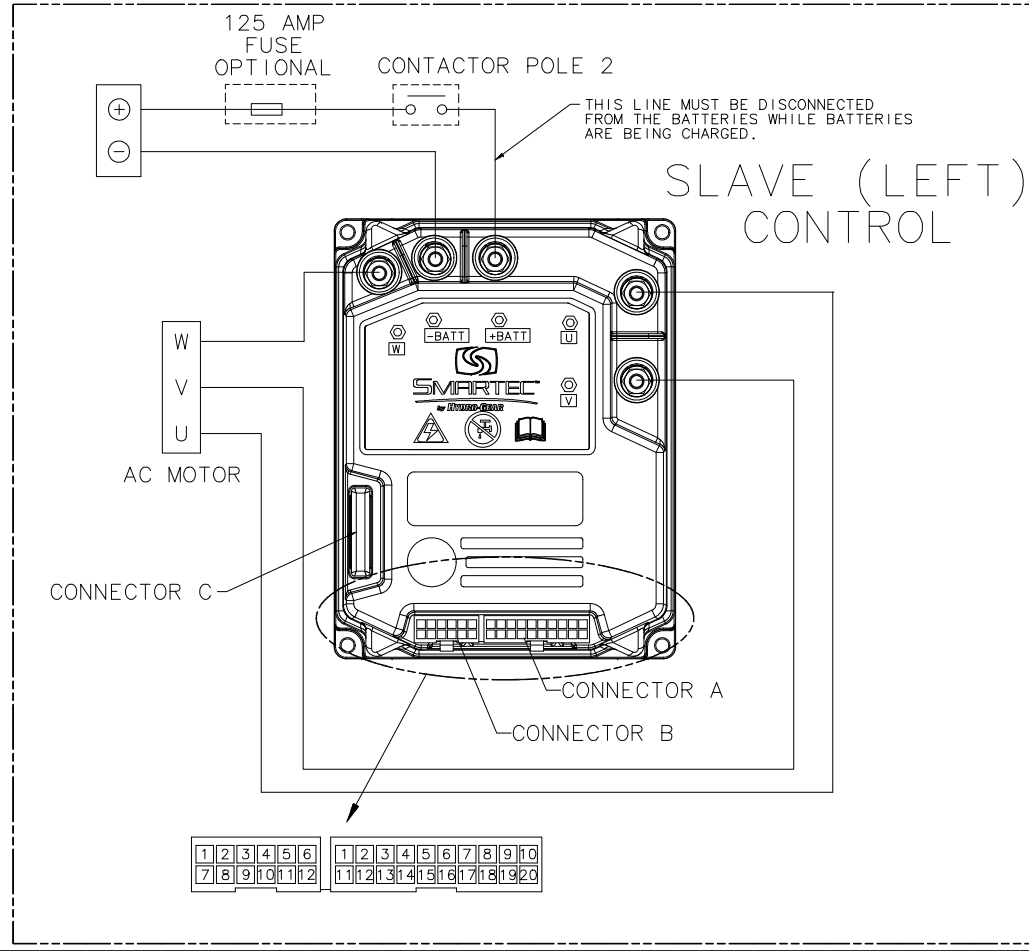
HEAT SINK P/N 54103

CAVITY PLUG P/N 53159

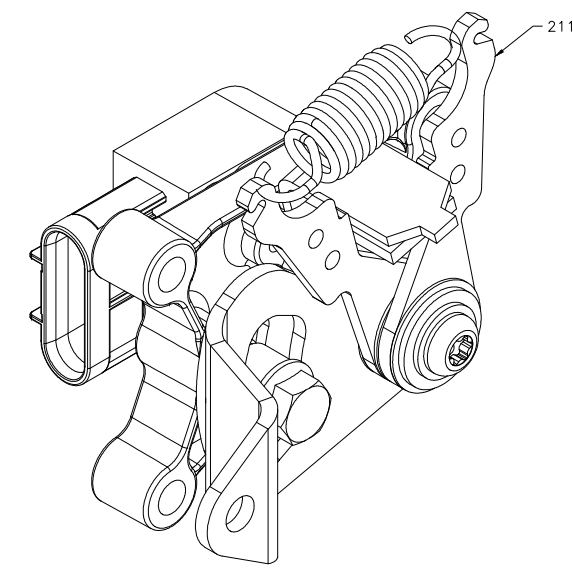


CONNECTOR	MATING CONNECTOR	WIRE SEAL
A	MOLEX P/N 0039012120 WITH MOLEX TERMINAL P/N 5556 GOLD PLATED	SMARTEC P/N 53135
B	MOLEX P/N 0039012200 WITH MOLEX TERMINAL P/N 5556 GOLD PLATED	
C	SMARTEC HAND-HELD CONSOLE	N/A

NOTE: ALL EMPTY CONNECTOR CAVITIES MUST BE PLUGGED USING SMARTEC CONNECTOR CAVITY PLUG P/N 53159.

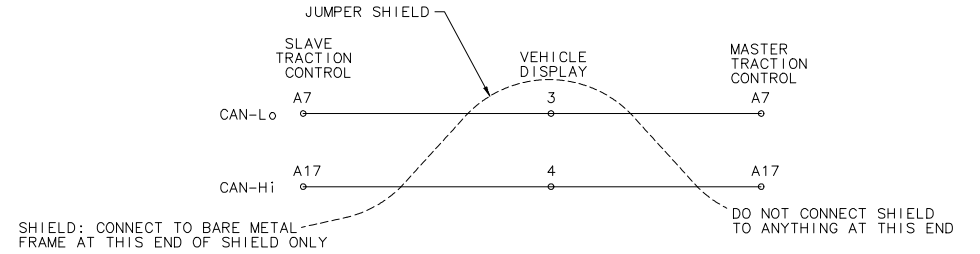


ITEM	COMPONENT	DESCRIPTION	QTY
211	72258	KIT, BRACKET RTN LH	1



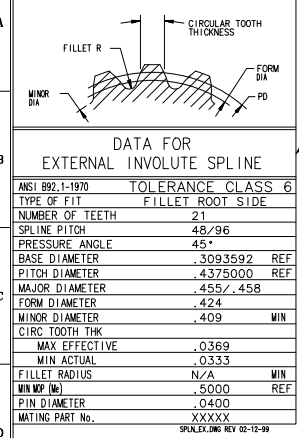
ITEM	COMPONENT	DESCRIPTION	QTY
211	72257	KIT, BRACKET RTN RH	1

CAN BUS WIRING REQUIREMENT: SLAVE CONTROL AND MASTER CONTROL MUST BE AT OPPOSITE ENDS OF DAISY CHAIN WIRING, EXACTLY AS SHOWN

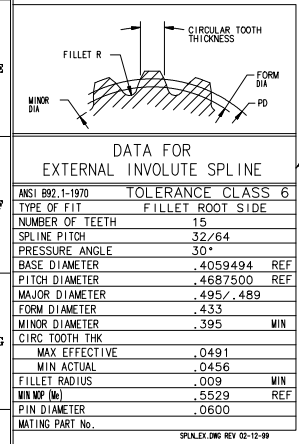


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SPLINE 1



SPLINE 2

TEST DATA:

RESISTANCE TEST (0hms) AT 25°C

MIN	MAX2
0.0135Ω	0.0175Ω

HIPOT TEST (1000V, 2mA AT 50 HZ FOR 2 SECONDS)

	MIN	MAX
LEAKAGE (mA)	0	2
VOLTAGE (VAC)	1000	

MEGGER TEST (500V MEGOHM METER)

MOHMS (MIN)	VOLTAGE
100	500

INDUCTANCE TEST

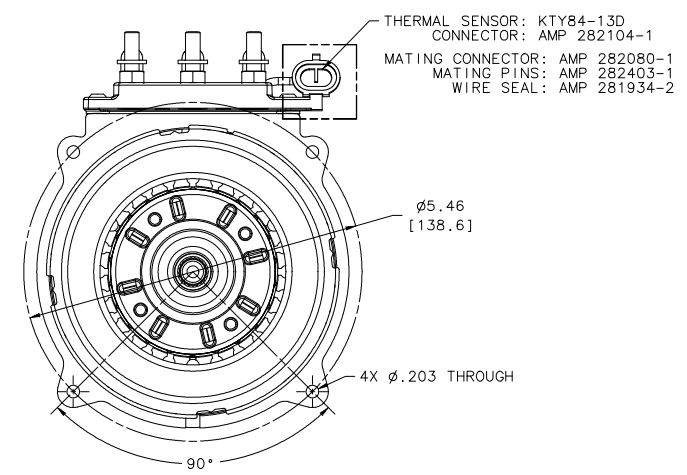
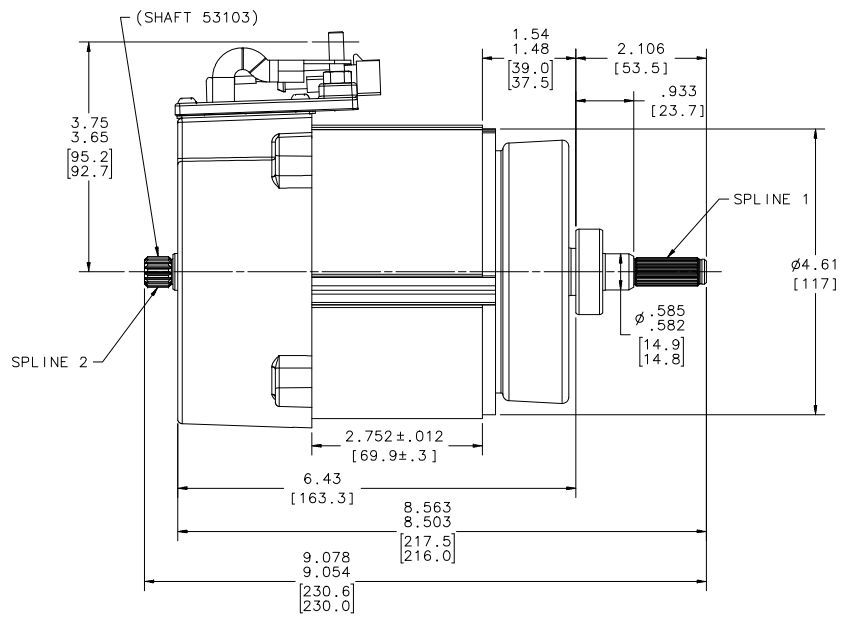
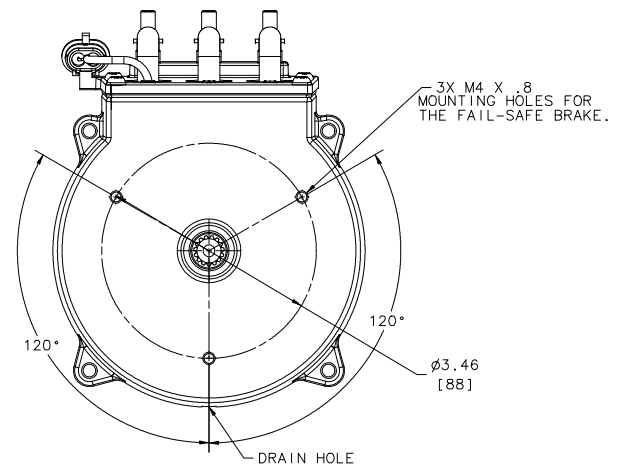
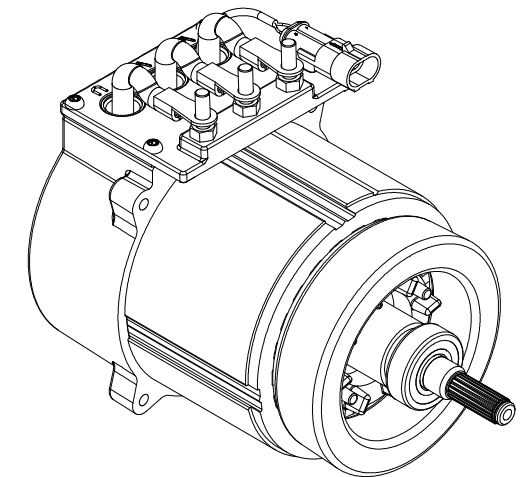
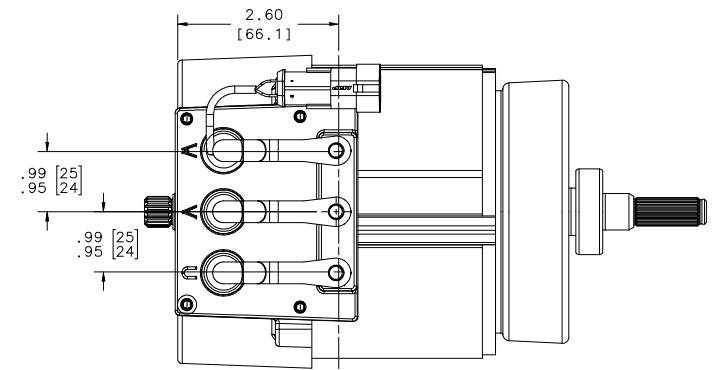
(L-L)	MIN	MAX
R _{AB}	90 mH	112 mH
R _{BC}	90 mH	112 mH
R _{CA}	90 mH	112 mH

NOTES:

1. MOTOR TYPE: 3 PHASE AC INDUCTION
2. SYSTEM VOLTAGE: 48 VDC
3. MOTOR VOLTAGE: 33 VRMS
4. SPEED RANGE: 0 TO 6000 RPM
5. CONTINUOUS MAXIMUM TORQUE IS 3.4 FT-LBS (1.7kW OR 2.2 HP)
6. TYPICAL DUTY CYCLE: 3685 RPM 1.84 LB-FT
7. INPUT FREQUENCY RANGE: 0 TO 200 HZ
8. EFFICIENCY: ≥85%
9. OVER TEMP PROTECTION REQUIRED BY USING KTY84-130 TEMP SENSOR
10. MOTOR ENCLOSURE RATING: IP- 54
11. REQUIRED MOTOR LIFE EXPECTANCY: ≥500 HOURS
12. 1/4" RING TERMINALS ARE TO BE USED TO CONNECT TO THE MOTOR.

SPURLEX.DWG REV 02-12-09

SPURLEX.DWG REV 02-12-09



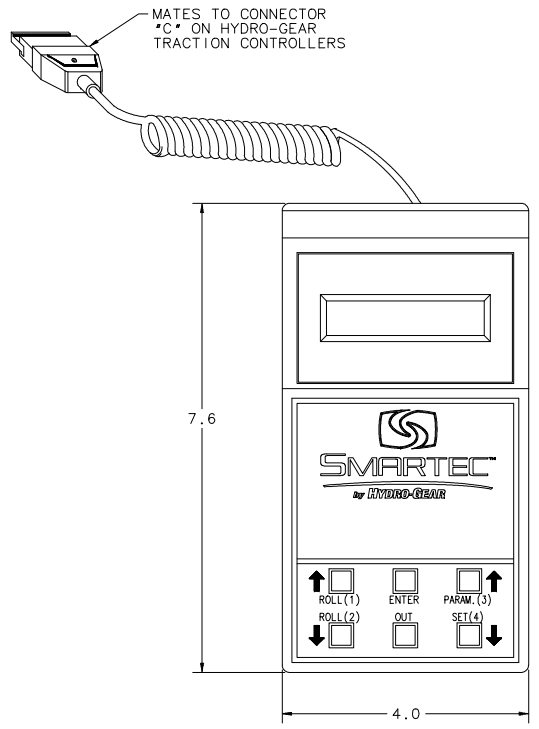
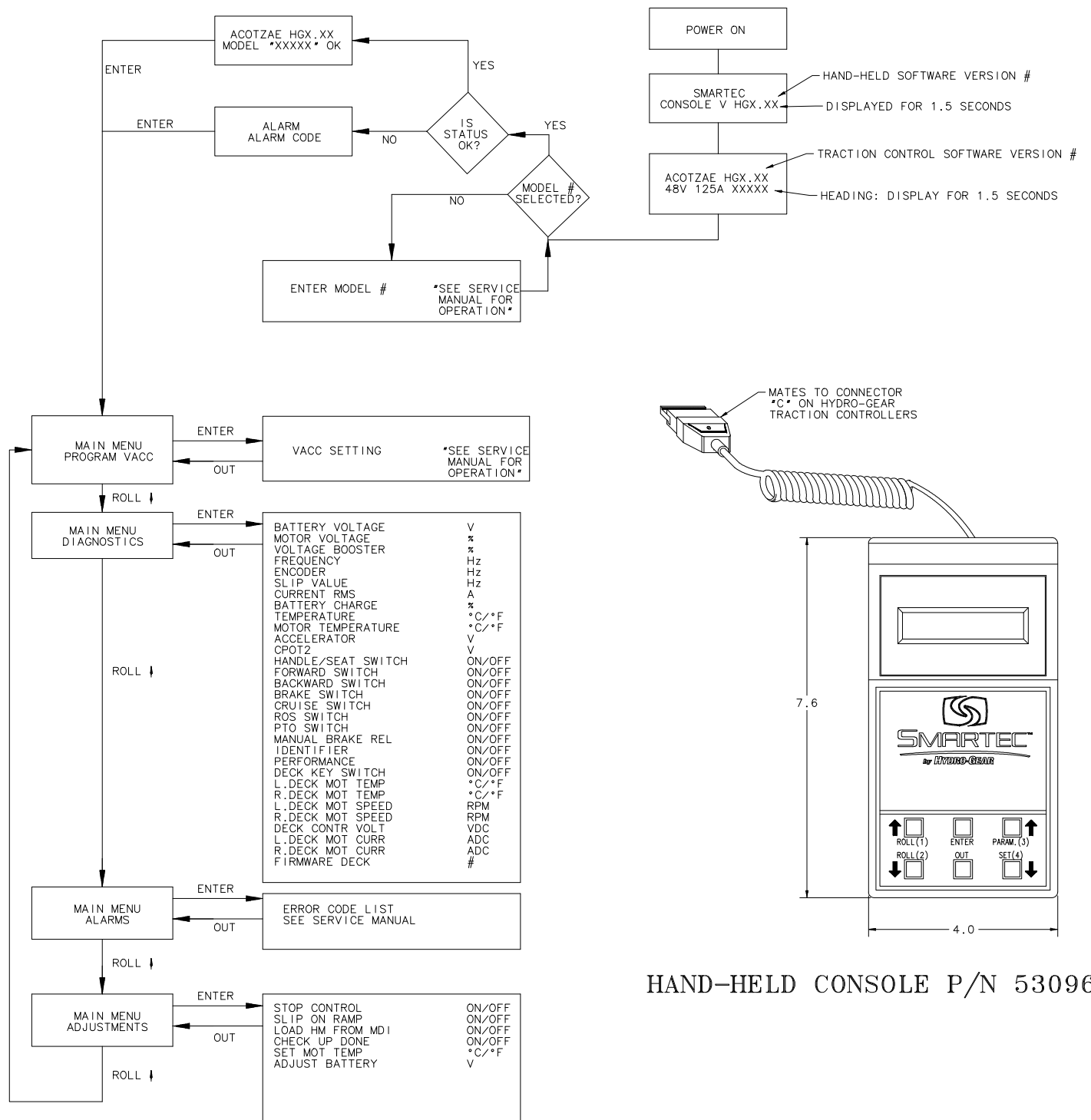
THERMAL SENSOR: KTY84-130
CONNECTOR: AMP 282104-1
MATING CONNECTOR: AMP 282080-1
MATING PINS: AMP 282403-1
WIRE SEAL: AMP 281934-2

1.7 KW AC INDUCTION MOTOR

SHEET 5 OF 11

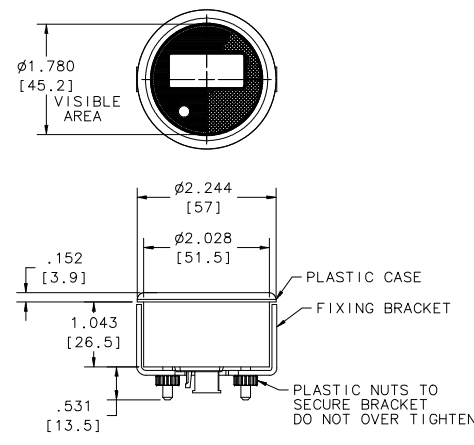
HYDRO-GEAR FORWARD MOTION THROUGH FORWARD THINKING		FRAME E	1-DEAS
1411 S. HAMILTON ST., MELVOUE, IL 61851 PHONE (708) 736-2500		DATE DRAWN	03/11/08
NAME ELECTRIC ZT SALES DRAWING		DRAWN BY	JLF
PART NUMBER 71804		SCALE	FULL
		REVISION DATE	05/03/12

TECHNICAL DATA
 APPLICATIONS: ELECTRIC DRIVE OEM
 VEHICLE CALIBRATION TOOL.
 ELECTRIC DRIVE SERVICE
 DEALER DIAGNOSTICS TOOL.



HAND-HELD CONSOLE P/N 53096

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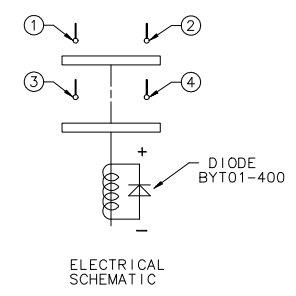
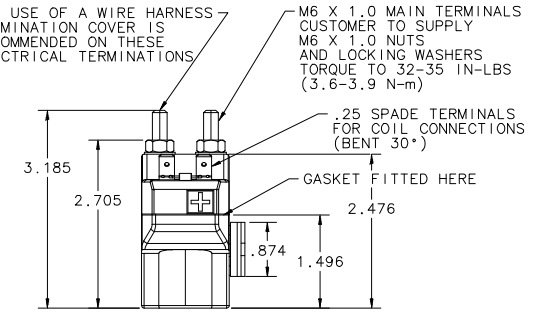
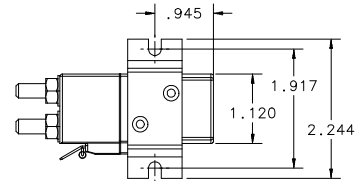
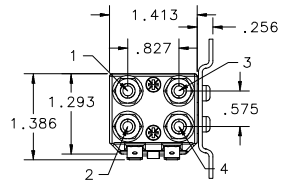
APPLICATION: THE SMARTEC VEHICLE DISPLAY IS A MULTIFUNCTIONAL DASH MOUNTED UNIT WHICH COMMUNICATES VIA CAN-BUS LINK WITH THE SMARTEC TRACTION CONTROLLER TO DISPLAY BATTERY STATE OF CHARGE, MAINTENANCE DUE REMINDERS, OPERATION HOURS, AND VEHICLE ALARMS. BATTERY STATE - SMARTEC'S TRACTION CONTROLLER MONITORS BATTERY STATE OF CHARGE AND DISPLAYS THIS VALUE ON THE SMARTEC DISPLAY. HOUR METER - SMARTEC'S TRACTION CONTROLLER COUNTS EITHER KEY-ON HOURS OR WORKING HOURS AND STORES THIS VALUE IN PERMANENT MEMORY. MAINTENANCE - MAINTENANCE INTERVAL REMINDERS ARE DISPLAYED ON THE SMARTEC DISPLAY. ALARM DISPLAY - TRACTION CONTROLLER ALARMS ARE DISPLAYED ON THE SMARTEC DISPLAY ENVIRONMENT - THE SMARTEC DISPLAY IS SEALED TO IP-64. INTERFACE - THE SMARTEC DISPLAY USES A 6 PIN MOLEX MINI-FIT, JR. CONNECTOR MOLDED INTO THE CASE. VEHICLE WIRE HARNESS WILL NEED MOLEX MINI FIT CONNECT 6 PIN RECEPT. (5557), WITH FEMALE CRIMP TERMINALS (5556 GOLD PLATED). USE 20 AWG WIRE.

CONNECTOR PIN OUT:
 PIN 1 = +12V (A16)
 PIN 2 = CONTROLLER - BATT
 PIN 3 = CANL (A7)
 PIN 4 = CANH (A17)
 MUST USE A SHIELDED TWISTED PAIR CABLE FOR THE WIRES USED ON PIN 3 & PIN 4. SHIELDING TO BE ATTACHED TO VEHICLE FRAME AT ONE END ONLY. SEE CAN-BUS WIRING REQUIREMENT SCHEMATIC ON SHEET 4.

MULTIFUNCTION DIGITAL INTERFACE
 P/N 53143

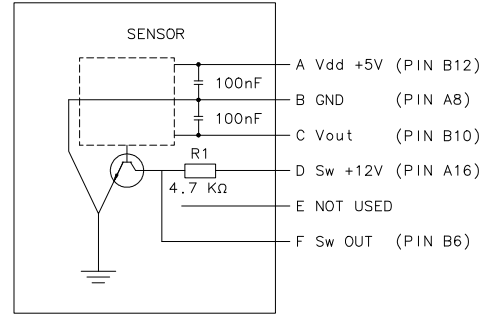
NOTES:

- CONTACTOR ENCLOSURE RATING: IP65.
- PERFORMANCE DATA:
 MAXIMUM RECOMMENDED COIL VOLTAGE: ≤ 28 V, 300mA
 MECHANICAL LIFE: > 5000 CYCLES
 DROP-OUT TIME (N/O CONTACTS TO OPEN): ≤ 50ms
 BOTH CONTACTS NORMALLY OPEN
- PART TO BE USED IN CONJUNCTION WITH SMARTEC ELECTRIC DRIVE TRACTION CONTROLLER P/N 53318

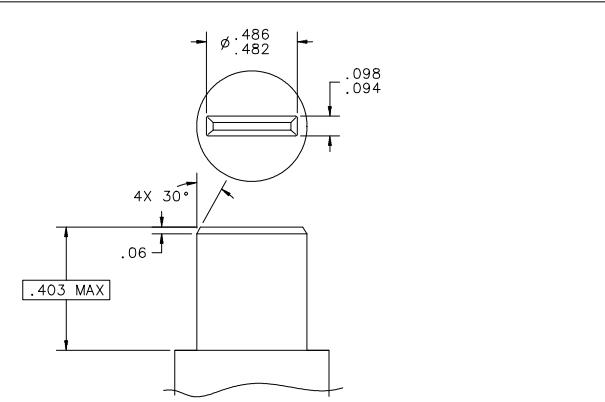
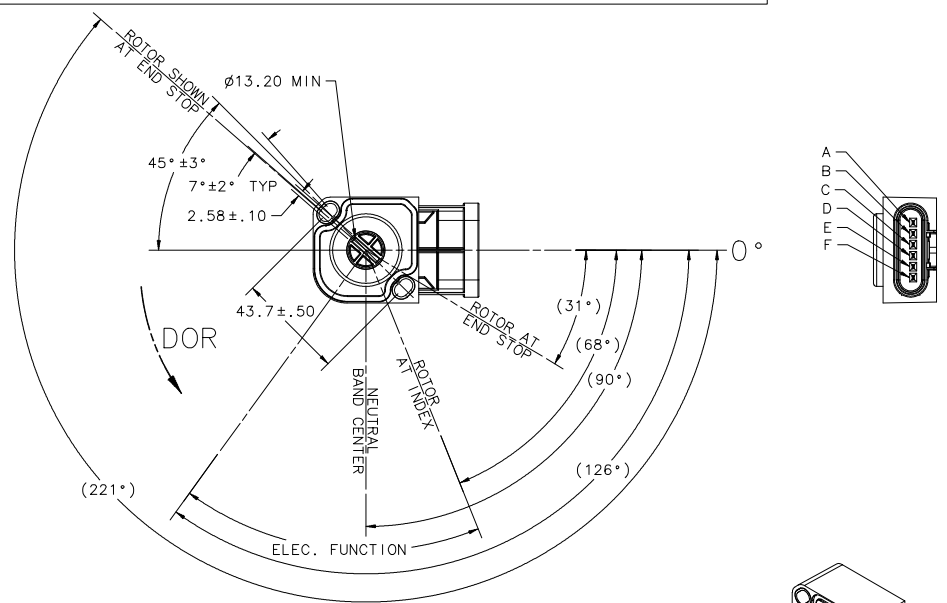
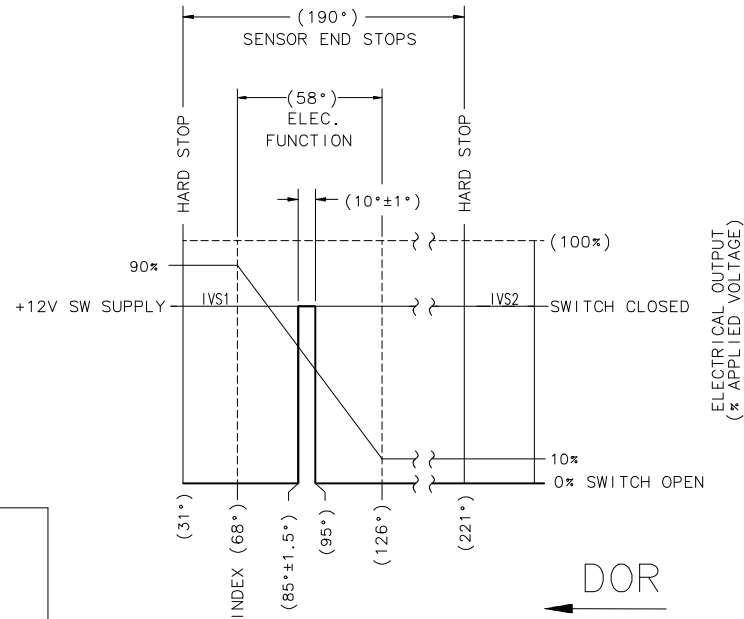


DOUBLE POLE CONTACTOR
 P/N 53110

ELECTRICAL SCHEMATIC

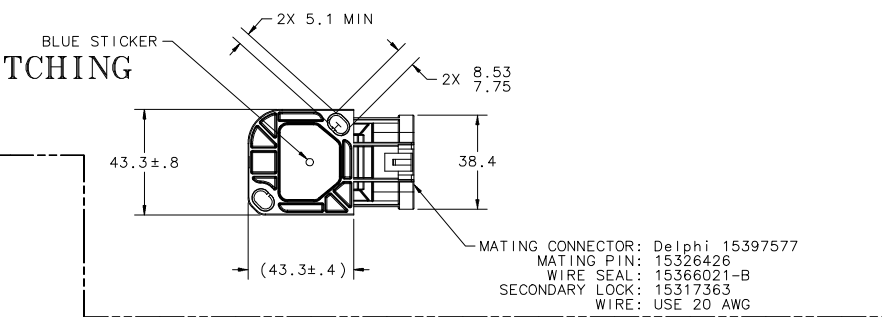
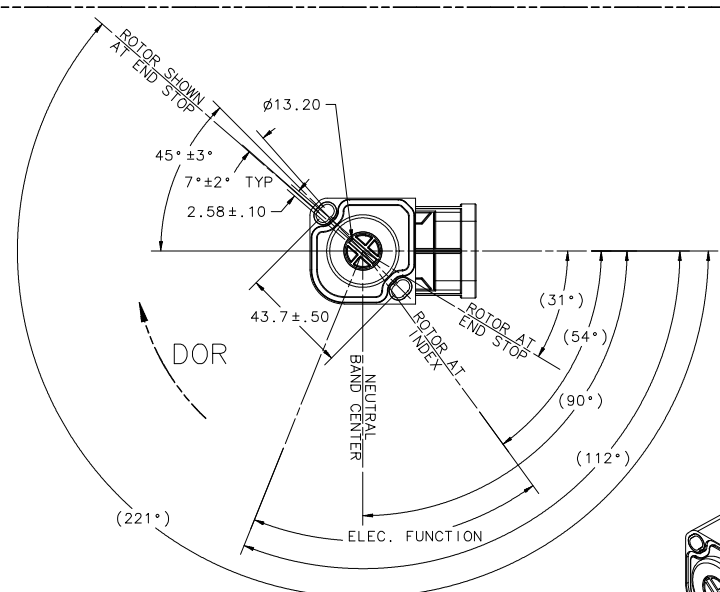


ELECTRO-MECHANICAL GRAPH FOR SENSOR WITH SWITCHING

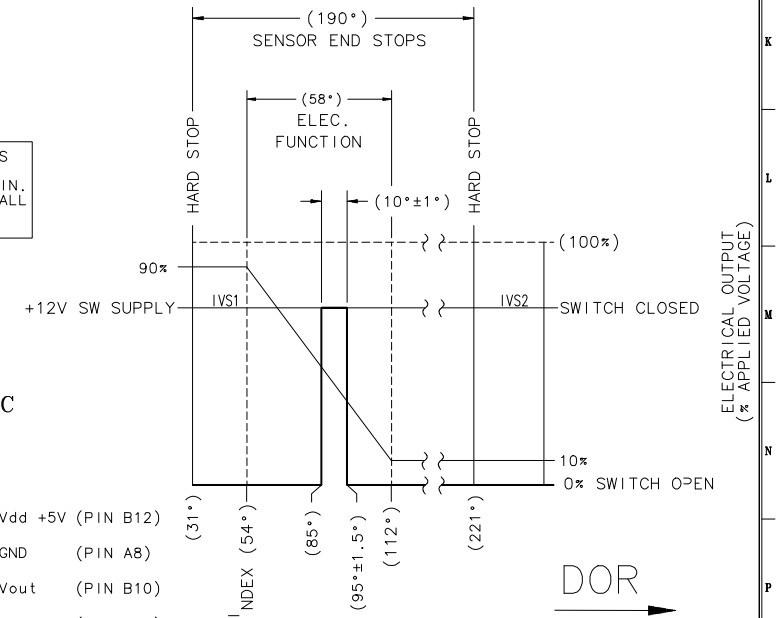


SHAFT, ACTUATING

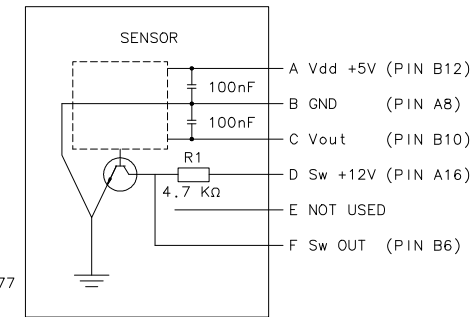
**LEFT SENSOR ACCELERATOR W/INTERNAL SWITCHING
P/N 53517**



ELECTRO-MECHANICAL GRAPH FOR SENSOR WITH SWITCHING



ELECTRICAL SCHEMATIC

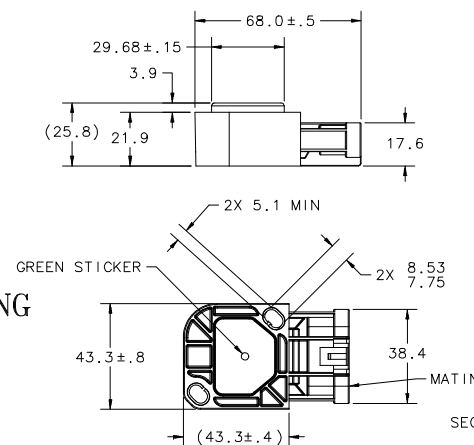


SENSOR MOUNT POSITION VERSUS WIRING:

PER THE ELECTRICAL OUTPUT GRAPHS THE VOLTAGE OUTPUT VARIES HIGH TO LOW AS THE SENSOR SLOT IS ROTATED CLOCKWISE WHEN LOOKING INTO THE DRIVE SLOT. IN THIS CONFIGURATION THE FORWARD DIRECTION IS COUNTERCLOCKWISE AND REVERSE IS CLOCKWISE RELATIVE TO THE NEUTRAL ALIGNMENT POSITION. THE ELECTRICAL WIRING SCHEMATICS APPLY WHEN THE SENSORS ARE MOUNTED IN A MANNER THAT PRODUCES THE ROTATION AS DEFINED.

NOTE THAT SENSORS CAN BE MOUNTED IN AN OPPOSING ORIENTATION THAT RESULTS IN A REVERSE OF THE VOLTAGE OUTPUT AS SHOWN IN THE SCHEMATICS. WHEN SENSORS ARE MOUNTED IN THIS MANNER IT WILL BE NECESSARY TO CORRECT THIS BY MODIFYING THE CONTROLLER DEFAULT HARDWARE SETTING.

**RIGHT SENSOR ACCELERATOR W/INTERNAL SWITCHING
P/N 53518**

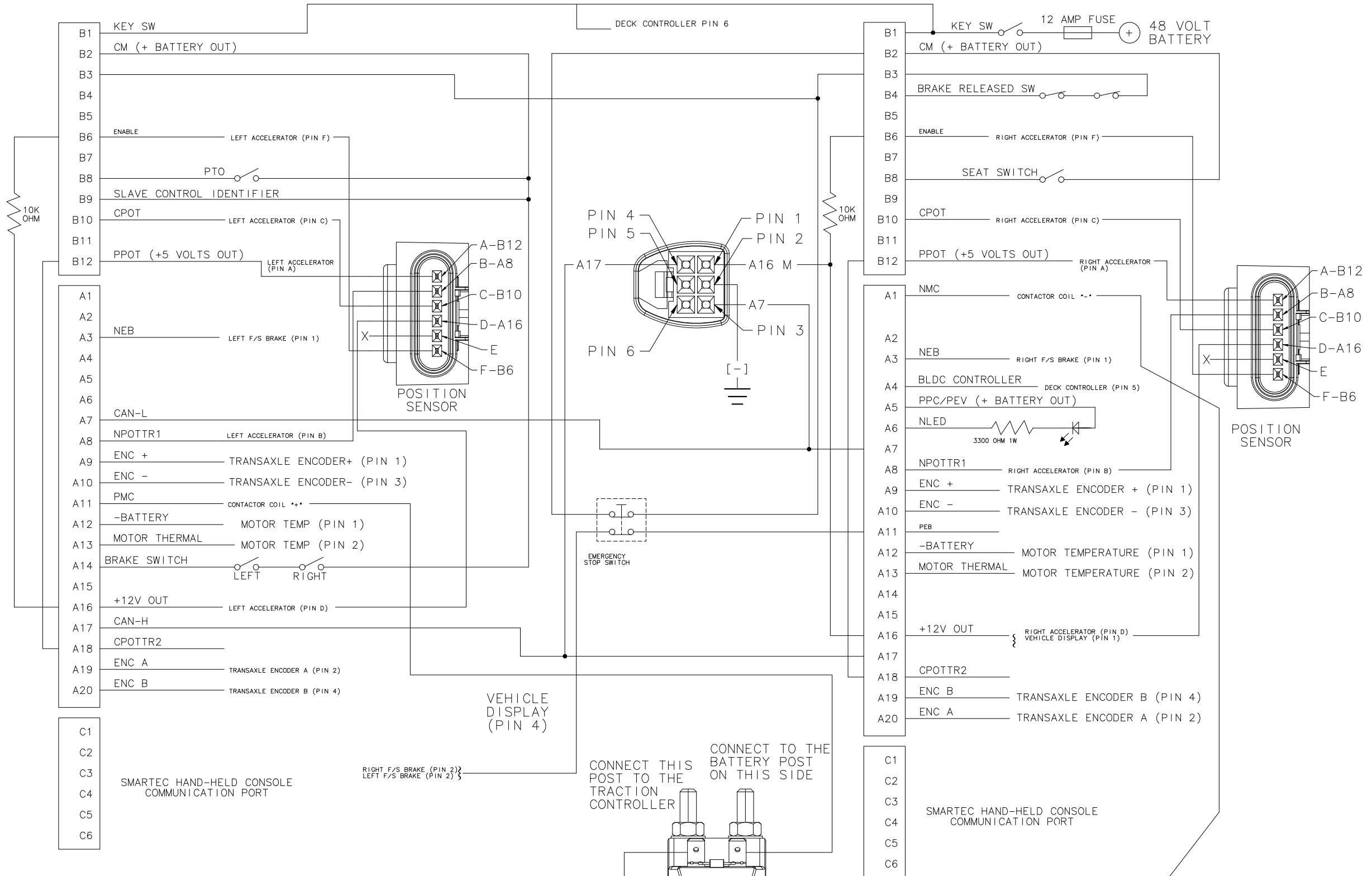


MATING CONNECTOR: Delphi 15397577
MATING PIN: 15326426
WIRE SEAL: 15366021-B
SECONDARY LOCK: 15317363
WIRE: USE 20 AWG

WARNING: GOLD TERMINALS MUST MATE TO GOLD TERMINALS AND TIN TO TIN. PLEASE VERIFY THIS IN ALL HARNESSSES.

SLAVE (LEFT) CONTROL

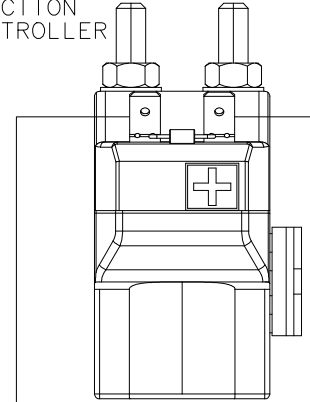
MASTER (RIGHT) CONTROL



WARNING: IF THE "BRAKE RELEASED" SWITCH TIED TO B3 AND B4 IS NOT ACTIVATED WHEN THE FAIL-SAFE BRAKE IS MANUALLY ACTUATED, THE VEHICLE WILL STILL BE ENABLED BUT NOT SAFETY PROTECTED. THIS SWITCH IS REQUIRED.

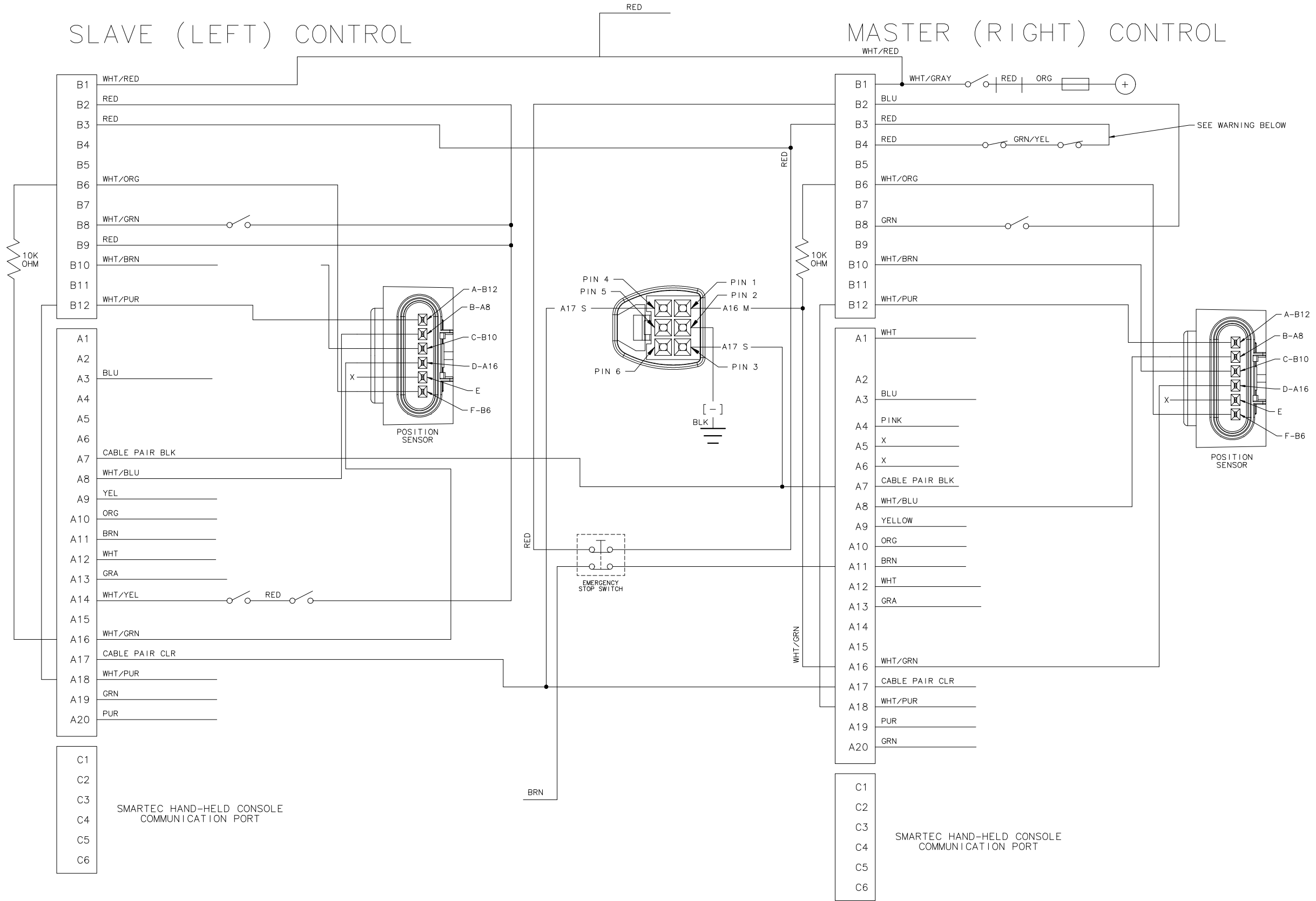
CONNECT THIS POST TO THE TRACTION CONTROLLER

CONNECT TO THE BATTERY POST ON THIS SIDE



SLAVE (LEFT) CONTROL

MASTER (RIGHT) CONTROL



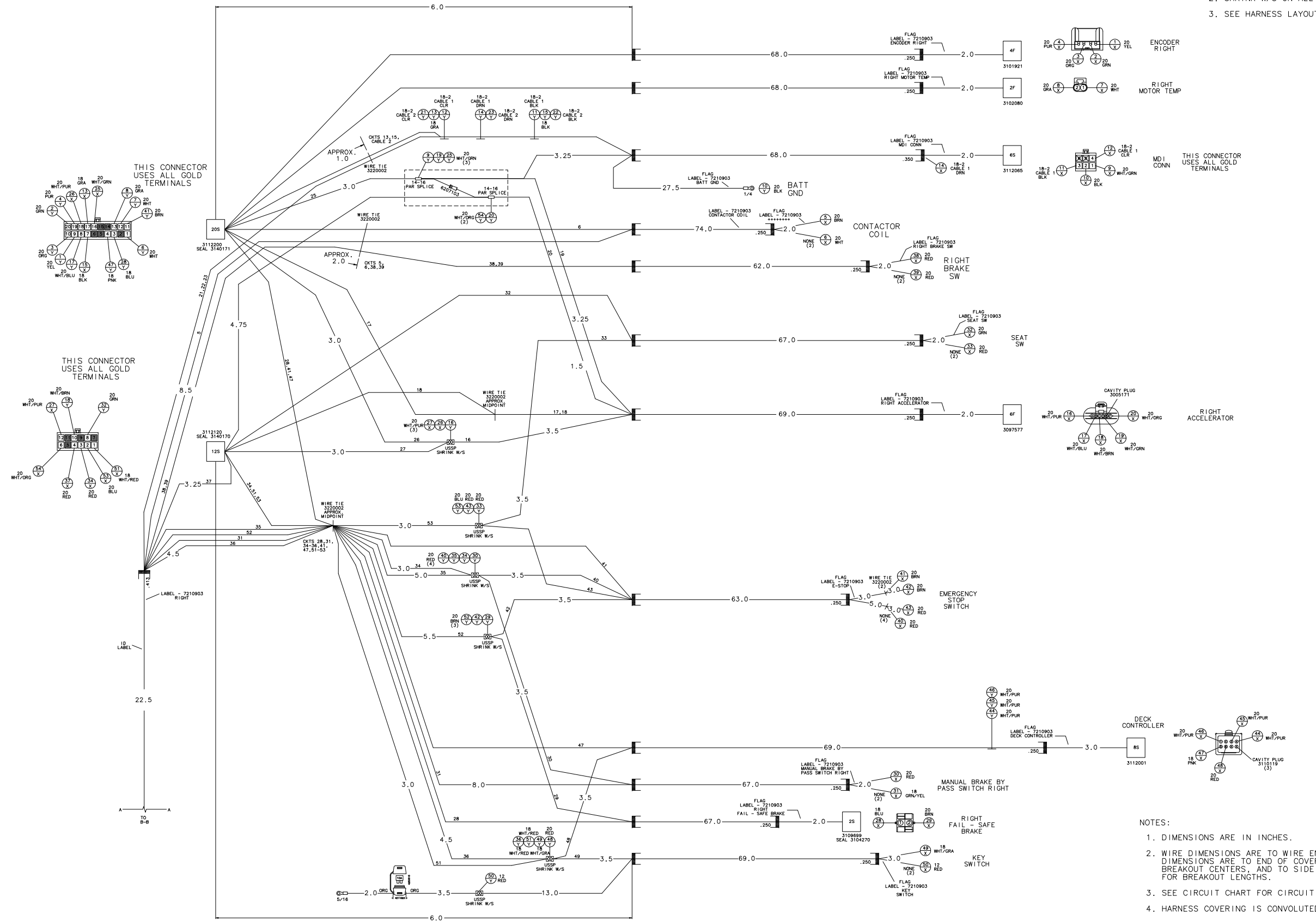
SMARTEC ZT WIRING HARNESS COLOR CHART

HYDRO-GEAR		DATE DRAWN	01/11/08
FORWARD MOTION THROUGH FORWARD THINKING		DRAWN BY	JLF
1411 S. HAMILTON ST., MELVOUE, IL 61851		SCALE	FULL
PHONE (708) 736-2500		REVISION DATE	05/03/12
NAME	ELECTRIC ZT SALES	PART NUMBER	71804
DRAWING			

NOTICE - THIS DRAWING CONTAINS HYDRO-GEAR PROPRIETARY INFORMATION. NEITHER RECEIPT NOR POSSESSION THEREOF CONFERS ANY RIGHT TO REPRODUCE, USE, OR DISCLOSE, IN WHOLE OR PART, ANY SUCH INFORMATION WITHOUT WRITTEN AUTHORIZATION FROM HYDRO-GEAR. THE SPECIFICATIONS AND PRODUCT PROFILE DEPICTED HEREIN ARE APPROXIMATE REPRESENTATIONS SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATION. CONSULT YOUR HYDRO-GEAR REPRESENTATIVE TO OBTAIN THE ENGINEERING INFORMATION APPROPRIATE TO YOUR APPLICATION.

NOTES:

1. HRNS IS BRAIDED.
2. SHRINK W/S ON ALL SPLICES.
3. SEE HARNESS LAYOUT DETAIL SHEET 2.



NOTES:

1. DIMENSIONS ARE IN INCHES.
2. WIRE DIMENSIONS ARE TO WIRE ENDS. HARNESS DIMENSIONS ARE TO END OF COVERING, BETWEEN BREAKOUT CENTERS, AND TO SIDE OF COVERING FOR BREAKOUT LENGTHS.
3. SEE CIRCUIT CHART FOR CIRCUIT DETAILS.
4. HARNESS COVERING IS CONVOLUTED CONDUIT.
5. TAPE CONDUIT AT ENDS AND BREAKOUTS.
6. CONNECTOR DETAILS SHOWN FROM WIRE ENTRY END.
7. ALL NOTES ARE FOR STANDARD HRNS ASS'Y UNLESS OTHERWISE SPECIFIED.

SHEET 10 OF 11

<p>FORWARD MOTION THROUGH FORWARD THINKING</p> <p>1411 S. HAMILTON ST., MELVOUE, IL 61861 PHONE (708) 382-2800</p>	FRAME #	1-DEAS
	DATE DRAWN	07/11/08
	DRAWN BY	JLP
	SCALE	FULL
NAME	ELECTRIC ZT SALES	PART NUMBER
DRAWING	71804	REV

