

2020 SNOWMOBILE WIRING DIAGRAMS

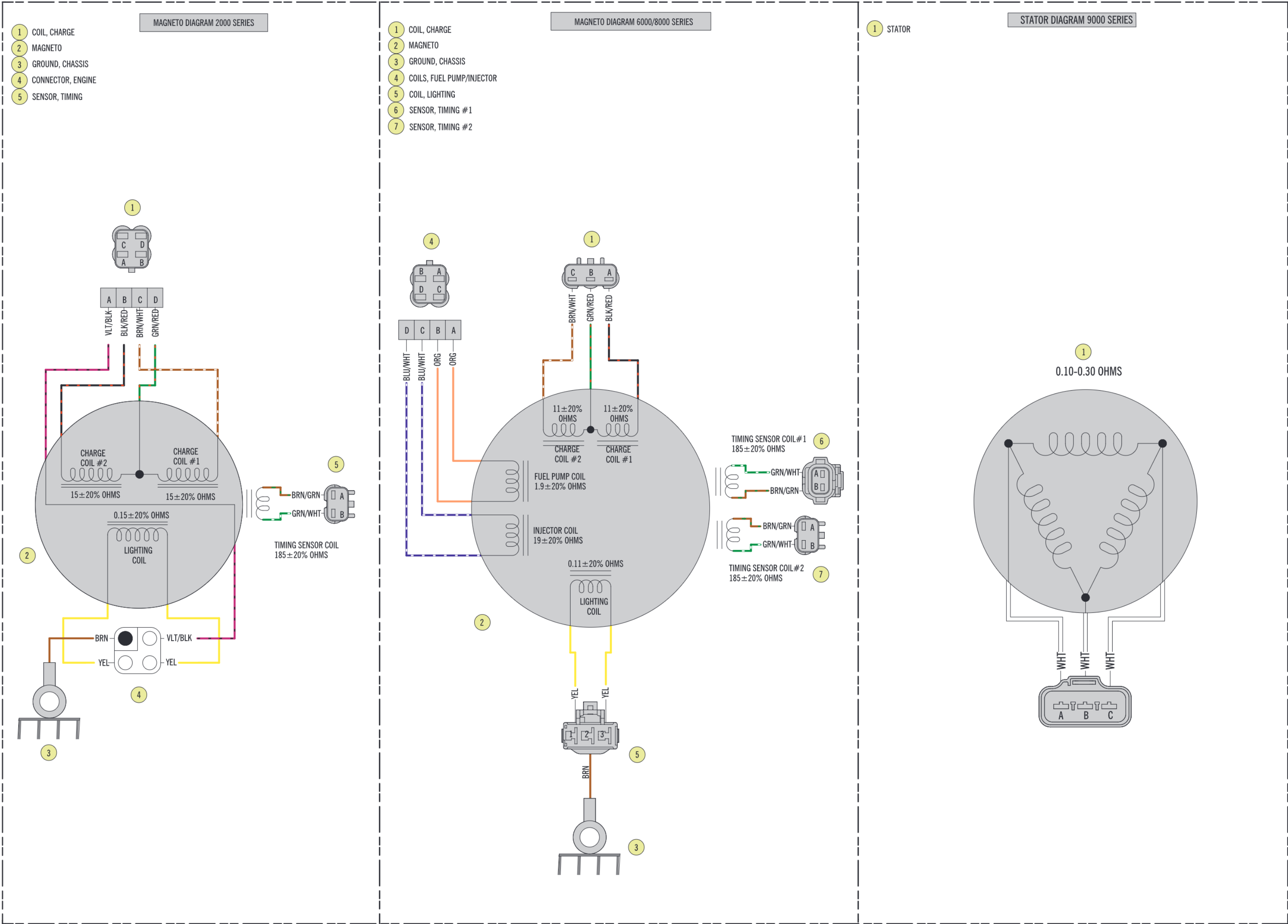
This chart is designed to direct the technician to the appropriate Harness Wiring Diagram. Select the snowmobile model from the chart to determine the correct diagram:

Model	Ignition/Main Harness	Hood/Console Harness	Handlebar Harness
Bearcat 2000 LT, Lynx 2000/LT	p. 2	p. 9	p. 10
ZR 120	p. 3	N/A	N/A
ZR 200	p. 4	N/A	N/A
6000/8000 Early Build ES	p. 5	p. 11	p. 13
8000 without ES	p. 6	p. 11	p. 13
8000 with ES	p. 7	p. 11	p. 13
9000	p. 8	p. 12	p. 13

■NOTE: All Magneto diagrams on p. 1, iACT Main Harness on p. 14.



Magnetos



NOTES:

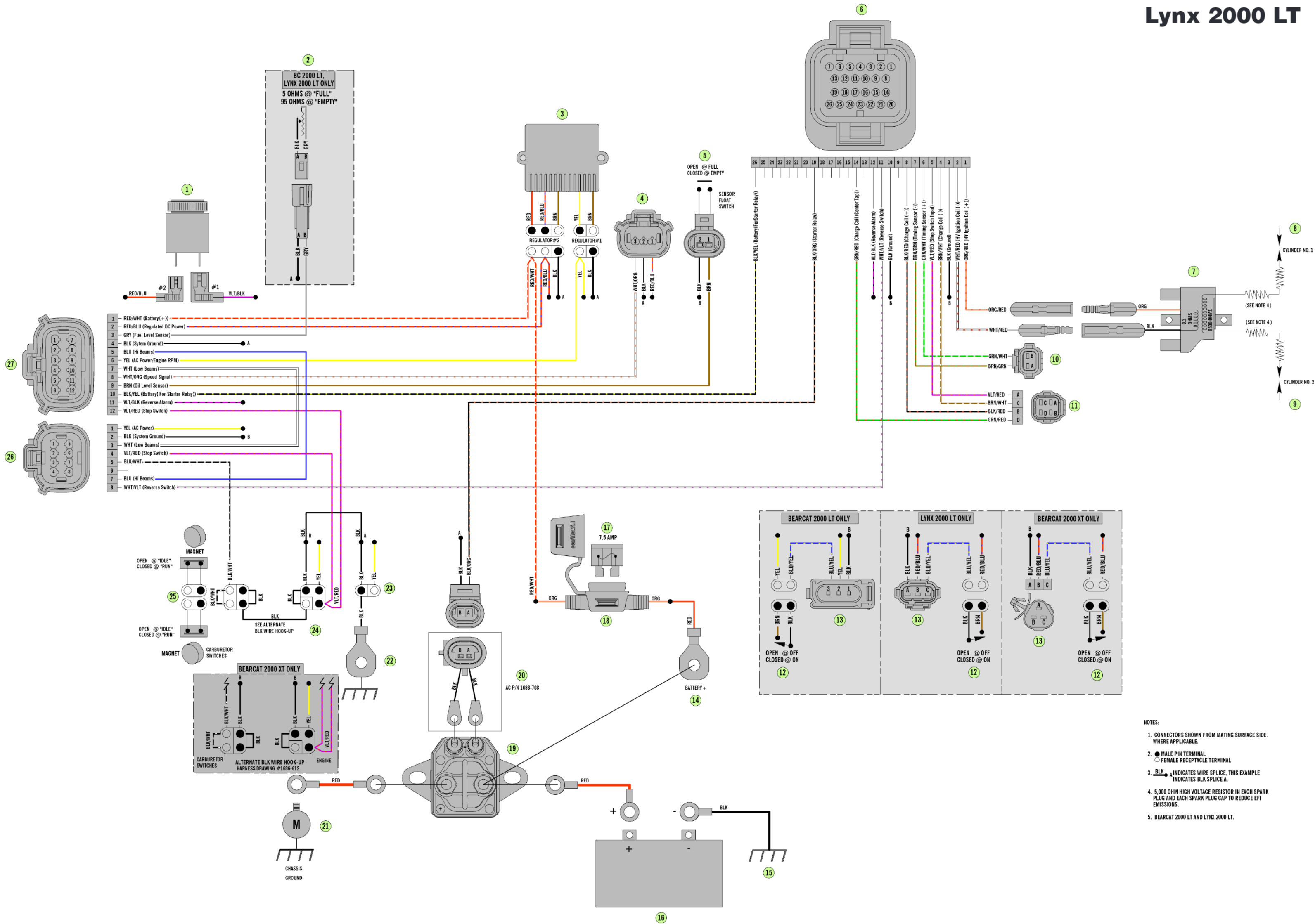
1. CONNECTORS SHOWN FROM MATING SURFACE SIDE.
WHERE APPLICABLE.

2. ● MALE PIN TERMINAL
○ FEMALE RECEPTACLE TERMINAL

0753-212

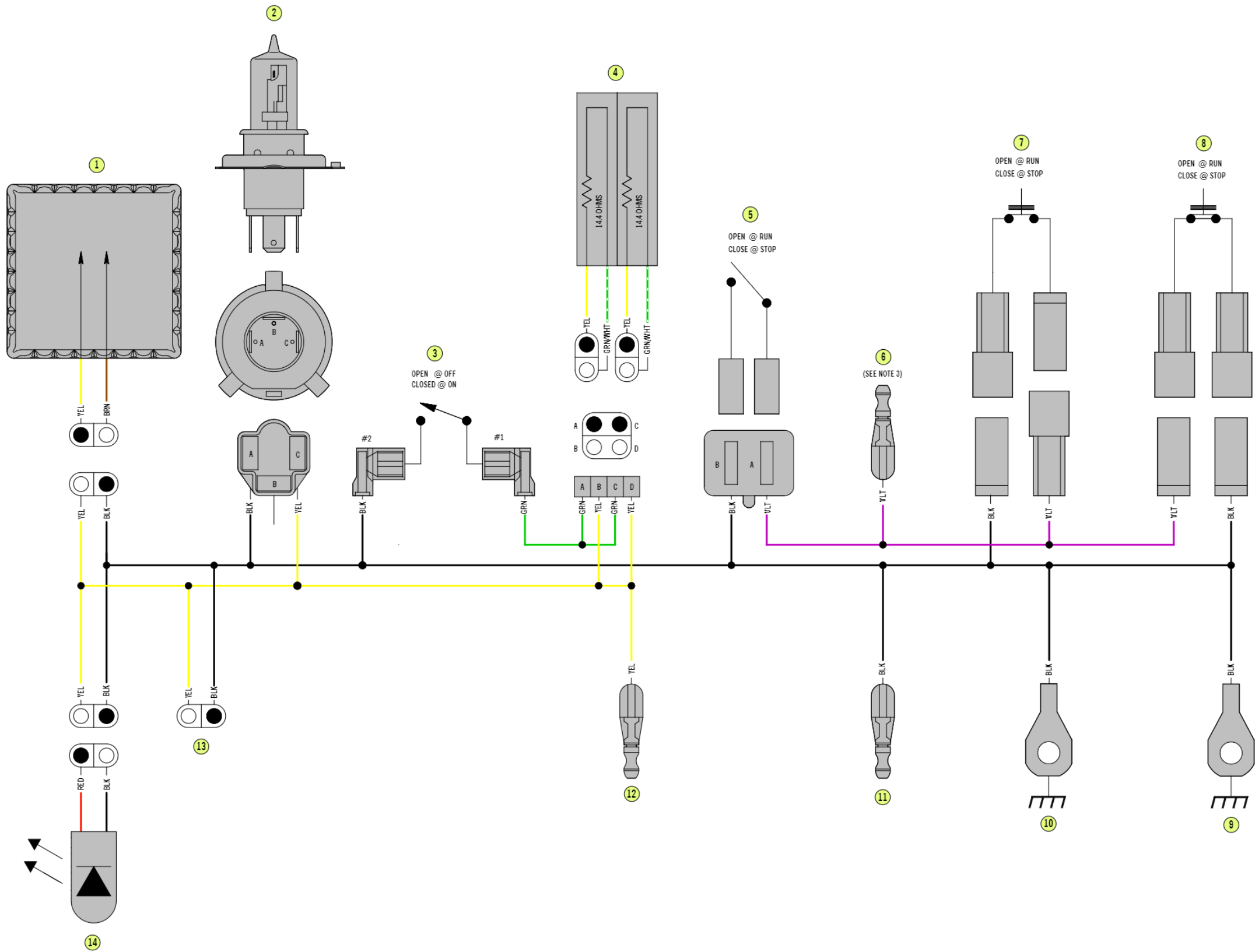
Main Harness
(p/n 1686-600)
Lynx 2000
(p/n 1686-601)
Bearcat 2000 LT
Lynx 2000 LT

- 1 ALARM, REVERSE
- 2 SENSOR, FUEL LEVEL
- 3 REGULATOR/RECTIFIER
- 4 SENSOR, OIL LEVEL
- 5 CONNECTOR, CDI
- 6 COIL, HV IGNITION
- 7 PLUG, CYLINDER 1 SPARK
- 8 PLUG, CYLINDER 2 SPARK
- 9 CONNECTOR, TIMING SENSOR
- 10 CONNECTOR, CHARGE COIL
- 11 SWITCH, BRAKE
- 12 CONNECTOR, TAILLIGHT
- 13 CONNECTOR, BATTERY TERMINAL
- 14 CONNECTOR, CHASSIS GROUND
- 15 BATTERY, 12V
- 16 FUSE
- 17 FUSE HOLDER
- 18 SOLENOID
- 19 STARTER
- 20 STARTER
- 21 CONNECTOR, CHASSIS GROUND
- 22 CONNECTOR, ACCESSORY
- 23 CONNECTOR, ENGINE
- 24 SWITCH, CARBURETOR
- 25 CONNECTOR, HANDLEBAR HARNESS
- 26 CONNECTOR, CONSOLE HARNESS
- 27



Main Harness
(p/n 1686-794)
ZR 120

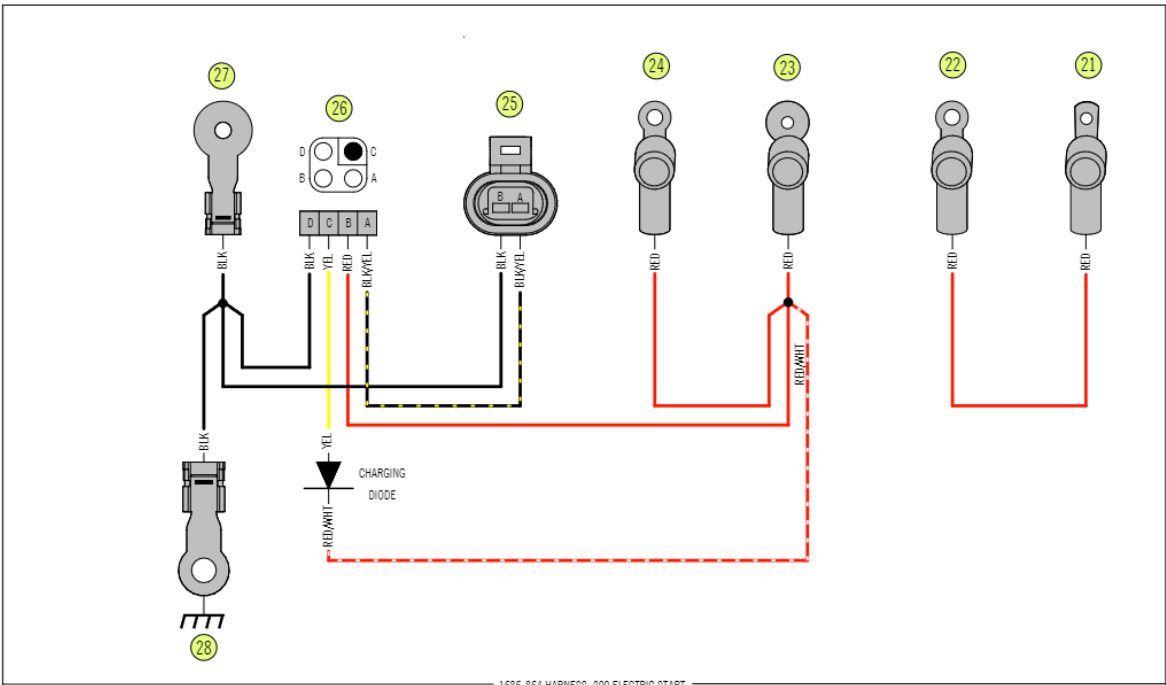
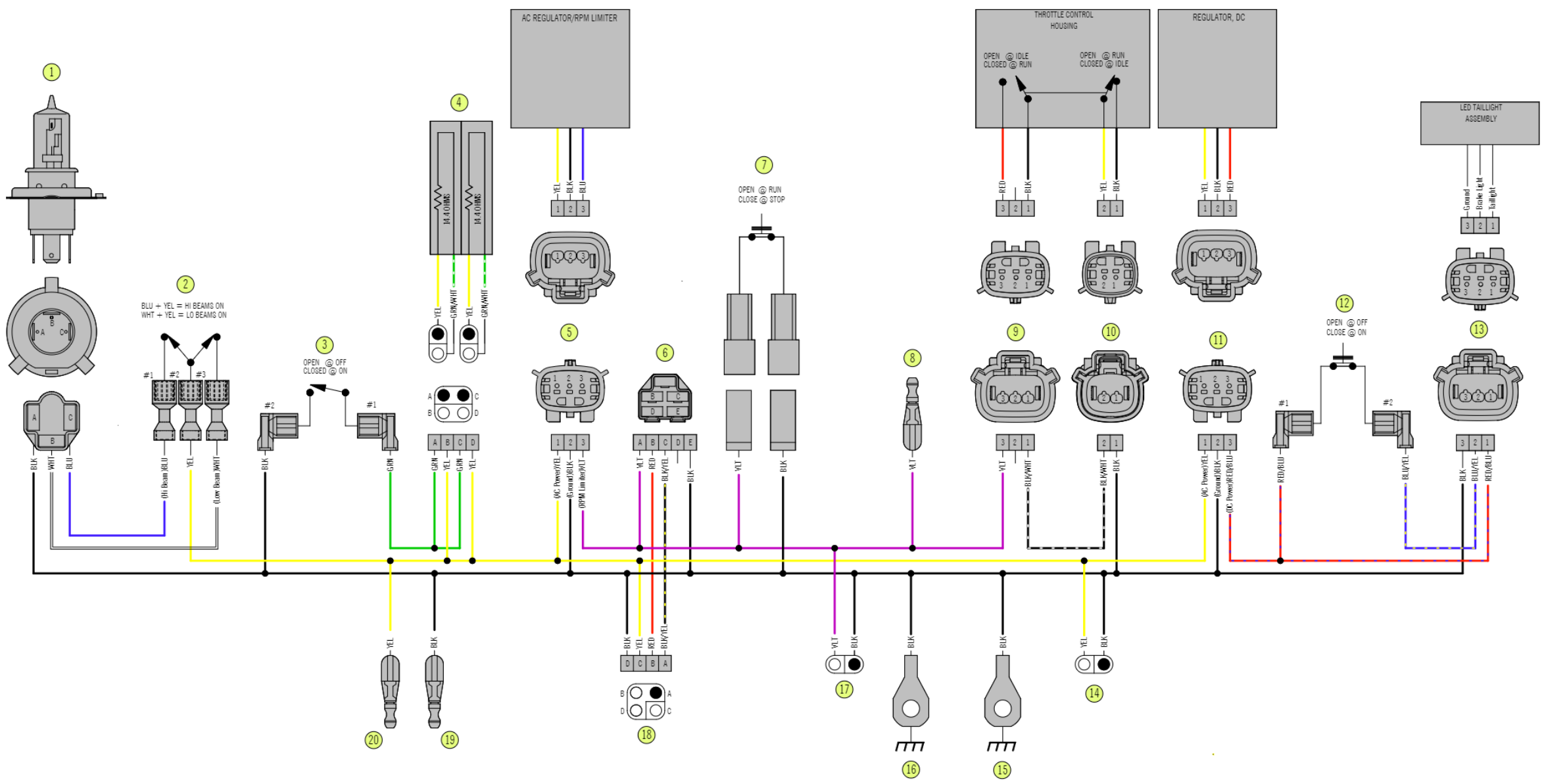
- 1 REGULATOR, AC
- 2 HEADLIGHT
- 3 SWITCH, WARMER
- 4 ELEMENTS, HANDWARMER
- 5 SWITCH, KEY
- 6 CONNECTOR, ENGINE STOP
- 7 SWITCH, TETHER
- 8 SWITCH, STOP
- 9 CONNECTOR, CHASSIS GROUND
- 10 CONNECTOR, ENGINE GROUND
- 11 CONNECTOR, MAGNETO #2 (-)
- 12 CONNECTOR, MAGNETO #1 (+)
- 13 CONNECTOR, ACCESSORY
- 14 TAILLIGHT



- NOTES:
- 1. CONNECTORS SHOWN FROM MATING SURFACE SIDE.
 - 2. ● MALE PIN TERMINAL
○ FEMALE RECEPTACLE TERMINAL
 - 3. NORMALLY OPEN IGNITION; MAIN HARNESS VLT WIRE MUST BE OPEN TO RUN, GROUNDED TO STOP IGNITION.

Main Harness
(p/n 1686-863)
ZR 200

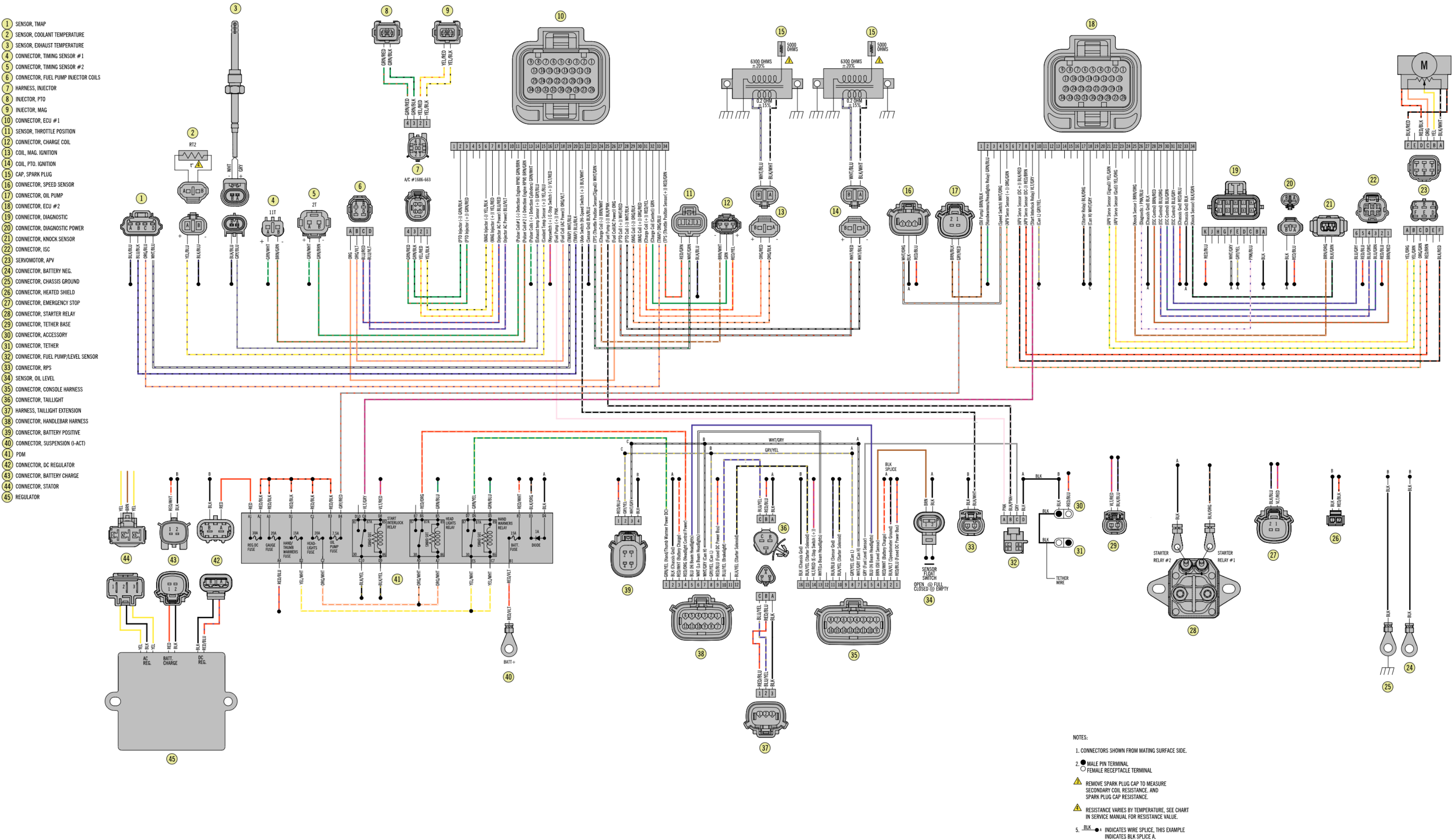
- 1 HEADLIGHT
- 2 SWITCH, HEADLIGHT
- 3 SWITCH, HANDWARMER
- 4 ELEMENTS, HANDWARMER
- 5 AC REGULATOR/RPM LIMITER
- 6 SWITCH, KEY
- 7 SWITCH, STOP
- 8 CONNECTOR, ENGINE STOP
- 9 SWITCH, IDLE
- 10 SWITCH, THROTTLE
- 11 REGULATOR, DC
- 12 SWITCH, BRAKE
- 13 TAILLIGHT
- 14 CONNECTOR, ACCESSORY
- 15 GROUND, CHASSIS
- 16 GROUND, ENGINE
- 17 CONNECTOR, TETHER
- 18 CONNECTOR, ELECTRIC START HARNESS
- 19 CONNECTOR, MAGNETO #2 NEGATIVE
- 20 CONNECTOR, MAGNETO #2 POSITIVE
- 21 CONNECTOR, STARTER
- 22 CONNECTOR, SOLENOID
- 23 CONNECTOR, BATTERY POSITIVE
- 24 CONNECTOR, SOLENOID
- 25 CONNECTOR, STARTER RELAY
- 26 CONNECTOR, MAIN HARNESS
- 27 CONNECTOR, BATTERY NEGATIVE
- 28 CONNECTOR, ENGINE GROUND



- NOTES:
- 1. CONNECTORS SHOWN FROM MATING SURFACE SIDE.
 - 2. ● MALE PIN TERMINAL
○ FEMALE RECEPTACLE TERMINAL

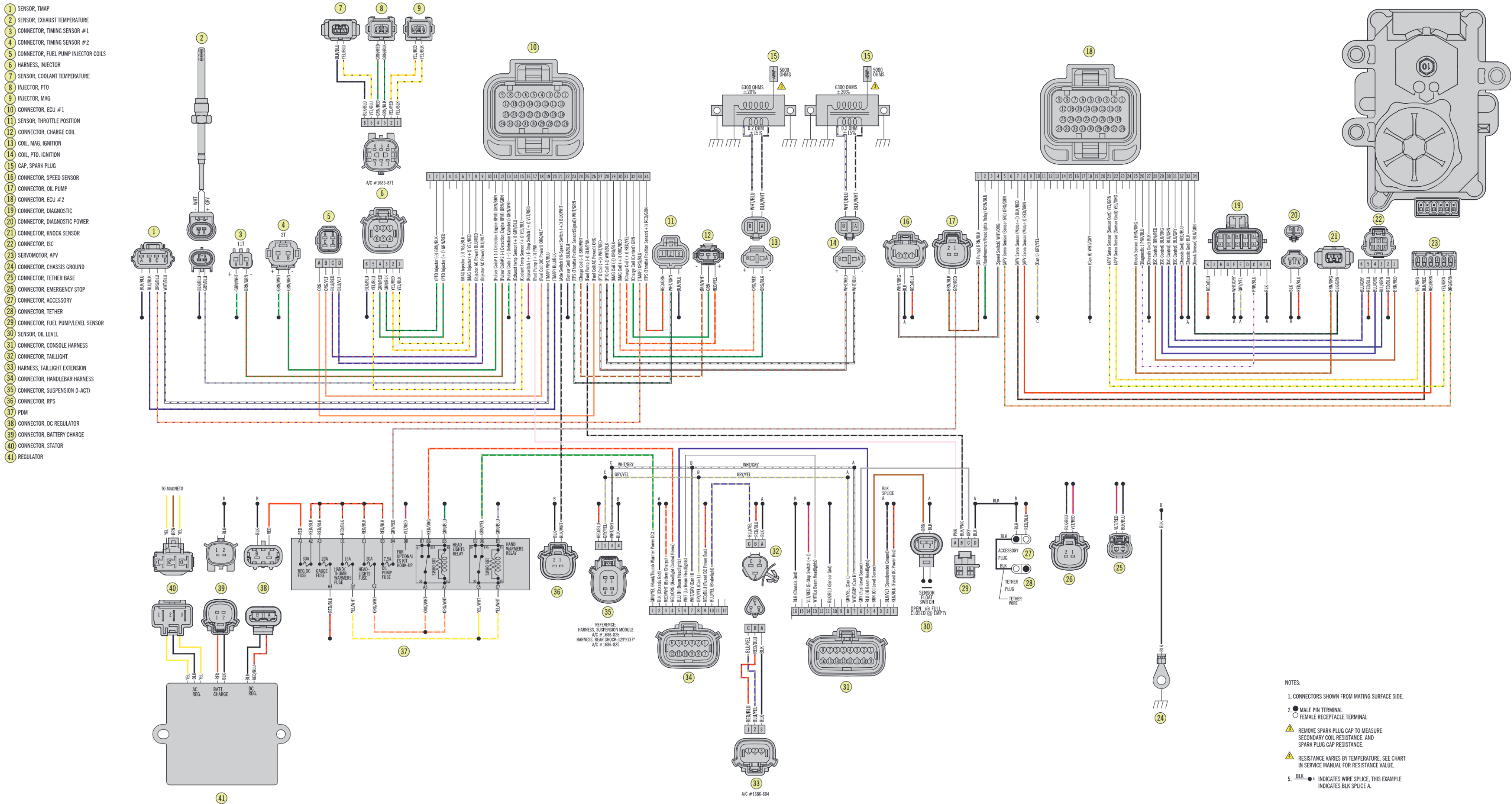
0752-742

Main Harness
(p/n 1686-834)
6000/8000 Early Build Models



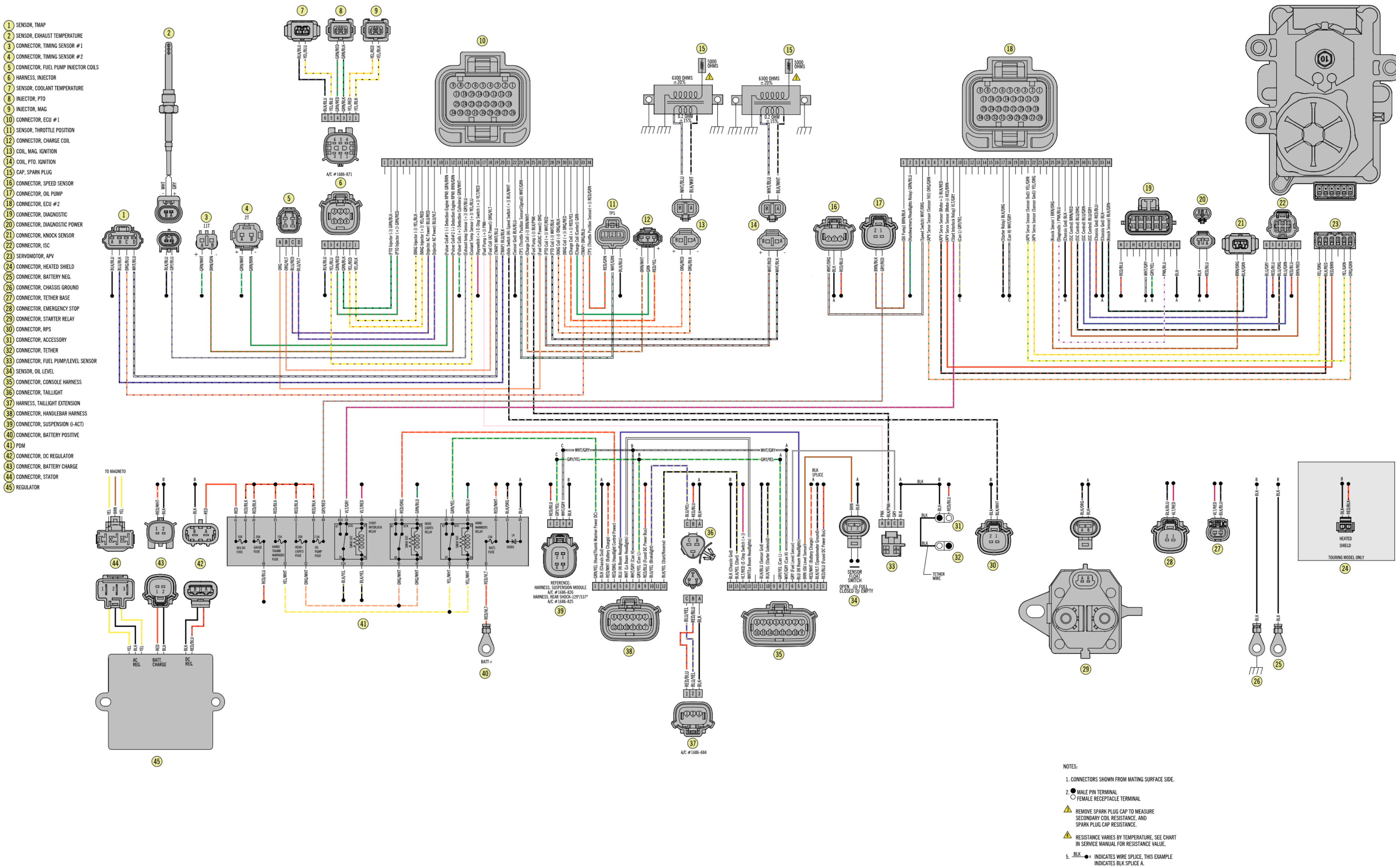
0752-747

Main Harness
(p/n 1686-872)
8000 without ES

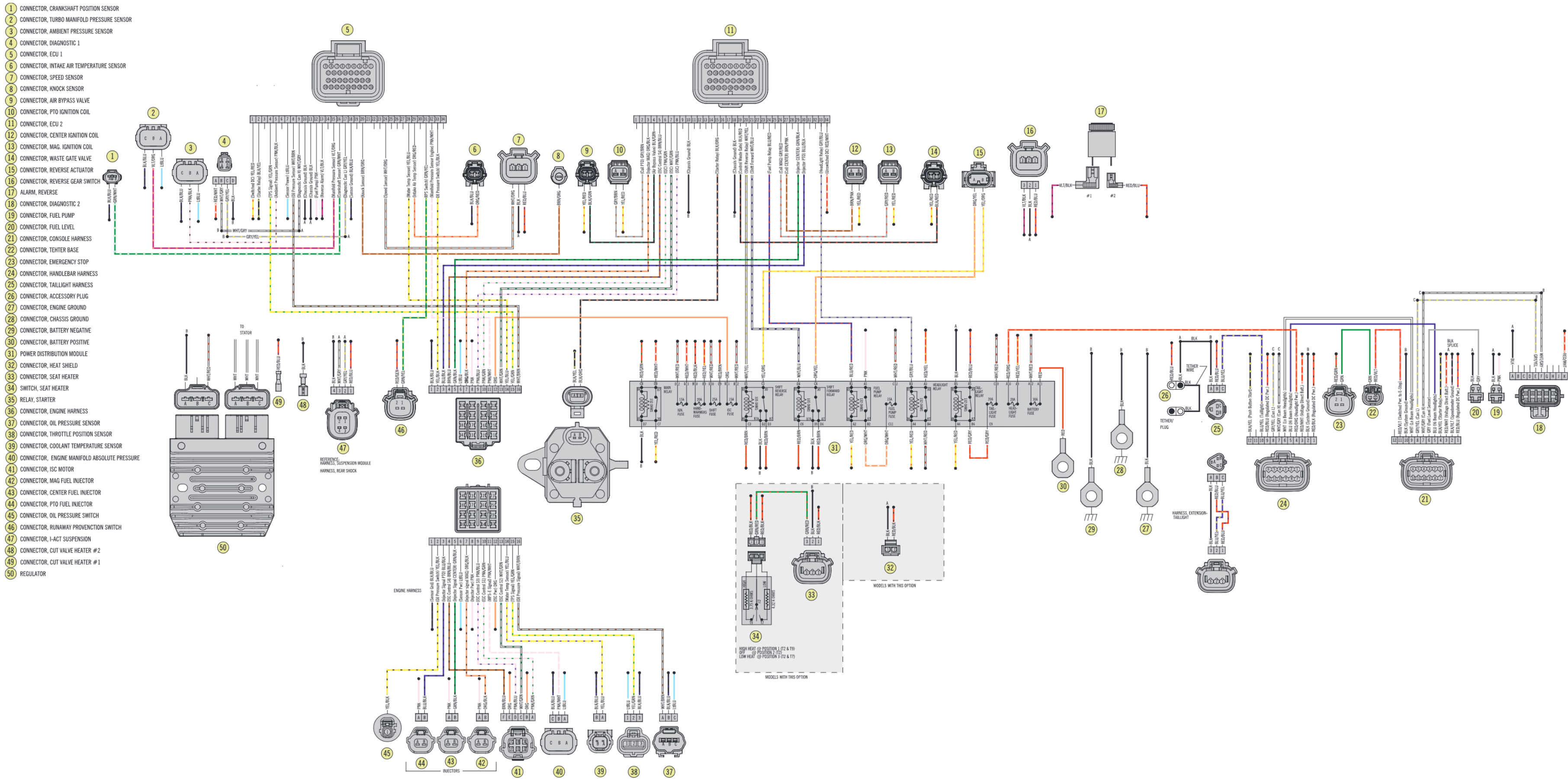


0753-161

Main Harness
(p/n 1686-873)
8000 ES Models



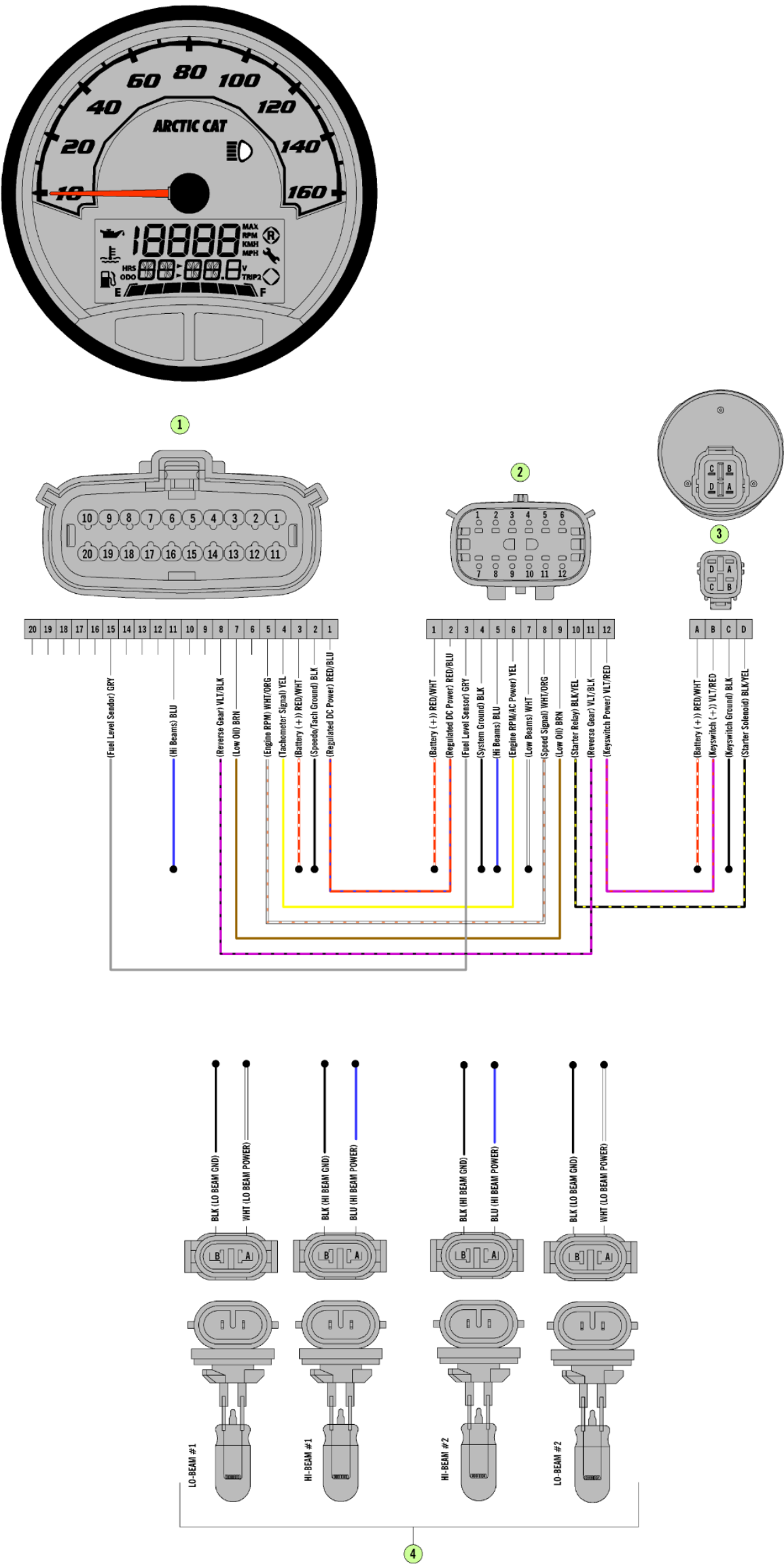
Main Harness
(p/n 1686-888)
9000 Models



NOTES:
1. CONNECTORS SHOWN FROM MATING SURFACE SIDE.
2. ● MALE PIN TERMINAL
○ FEMALE RECEPTACLE TERMINAL
3. **BLK** INDICATES WIRE SPLICE, THIS EXAMPLE INDICATES BLK SPLICE A.

Console Harness
(p/n 1686-633)
Bearcat 2000 LT
Lynx 2000/LT

- 1 CONNECTOR, SPEEDOMETER
- 2 CONNECTOR, MAIN HARNESS #1
- 3 CONNECTOR, KEYSWITCH
- 4 HEADLIGHT

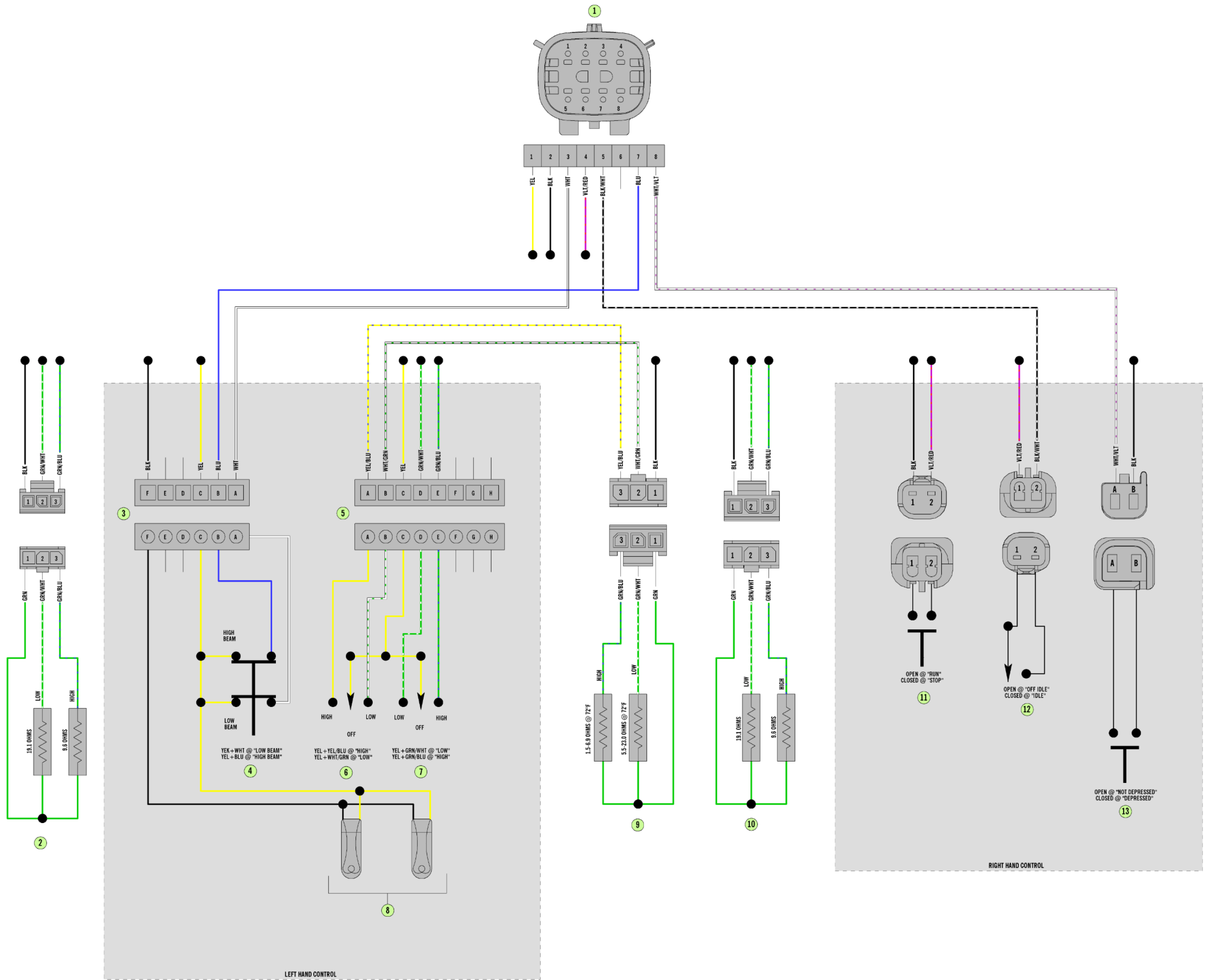


CIRCUIT DIAGRAM				
SWITCH FUNCTION	TERMINAL "A"	TERMINAL "B"	TERMINAL "C"	TERMINAL "D"
OFF		●	●	
ON	●			
START				●

- NOTES:
- 1. CONNECTORS SHOWN FROM MATING SURFACE SIDE.
 - 2. BLK ● INDICATES WIRE SPLICE, THIS EXAMPLE INDICATES BLK SPLICE.

Handlebar Harness
(p/n 1686-537)
Bearcat 2000 LT
Lynx 2000/LT

- 1 CONNECTOR, HANDLEBAR
- 2 ELEMENT, LH HANDWARMER
- 3 CONNECTOR, HEADLIGHT CONTROL
- 4 SWITCH, HEADLIGHT
- 5 CONNECTOR, HANDWARMER/THUMBWARMER
- 6 SWITCH, HANDWARMER
- 7 SWITCH, THUMBWARMER
- 8 BULBS, SWITCH
- 9 ELEMENT, THUMBWARMER
- 10 ELEMENT, RH HANDWARMER
- 11 SWITCH, EMERGENCY STOP
- 12 MICROSWITCH, RPS
- 13 SWITCH, SHIFT

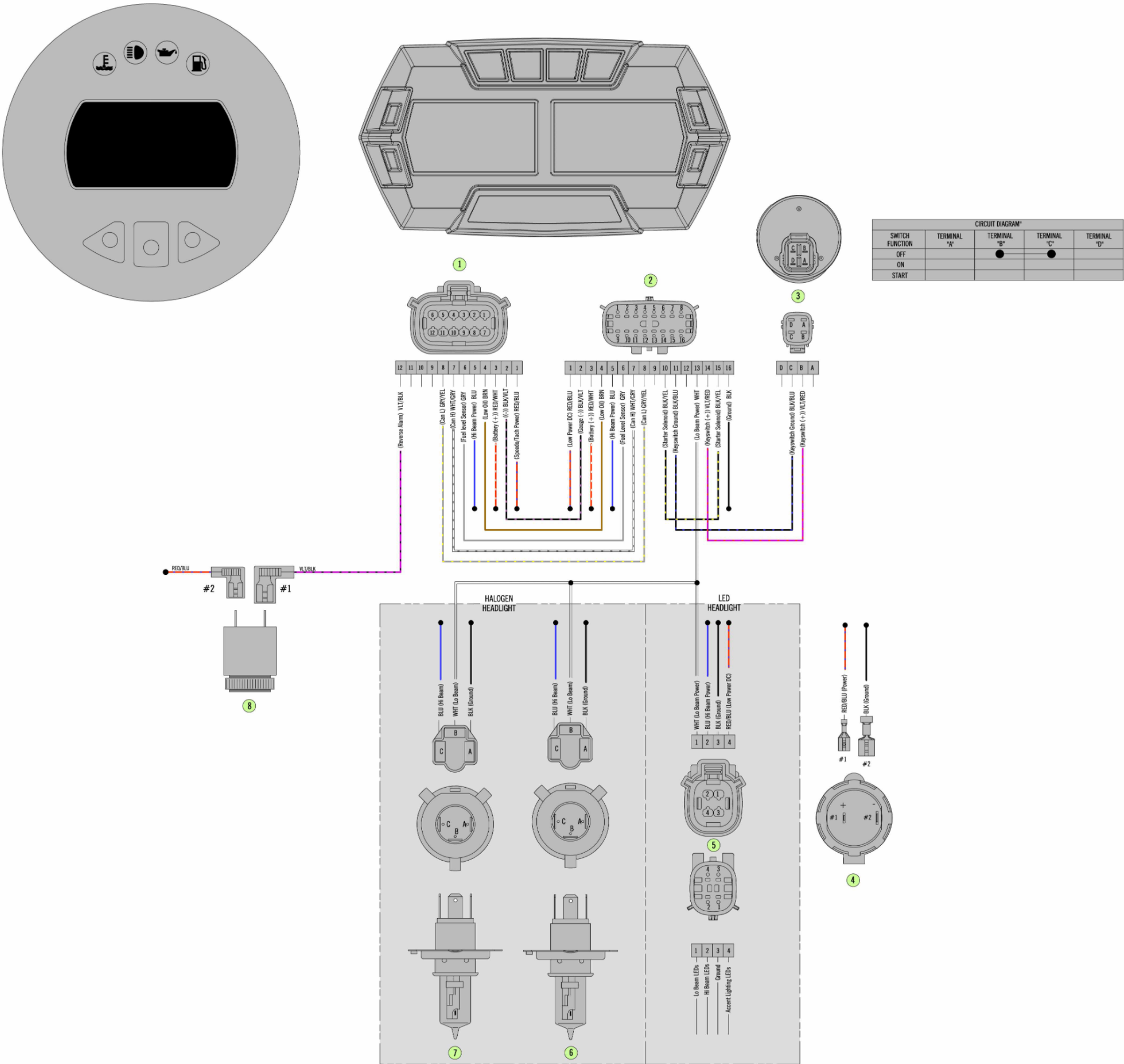


- NOTES:
- 1. CONNECTORS SHOWN FROM MATING SURFACE SIDE, WHERE APPLICABLE.
 - 2. BLK A INDICATES WIRE SPLICE, THIS EXAMPLE INDICATES BLK SPLICE A.

0746-239

Hood Harness 6000/8000 Models

- 1 SPEEDOMETER/TACHOMETER
- 2 CONNECTOR, MAIN HARNESS
- 3 CONNECTOR, KEYSWITCH
- 4 OUTLET, 12V ACCESSORY
- 5 HEADLIGHT, LED
- 6 HEADLIGHT, HALOGEN B
- 7 HEADLIGHT, HALOGEN A
- 8 ALARM, REVERSE

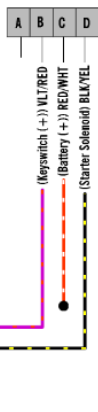
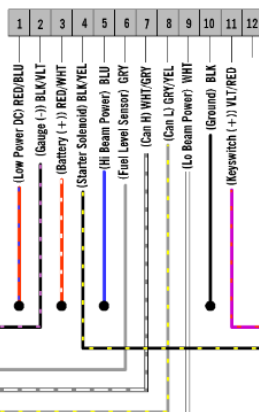
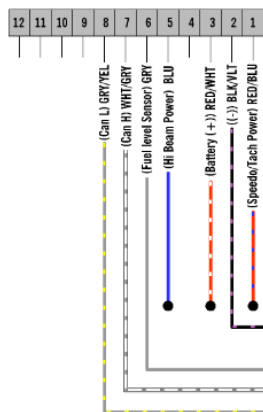
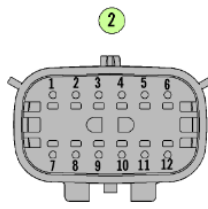
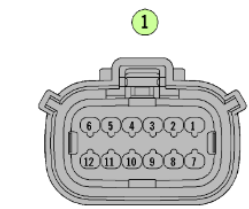
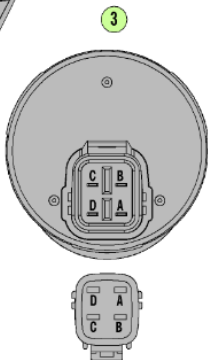
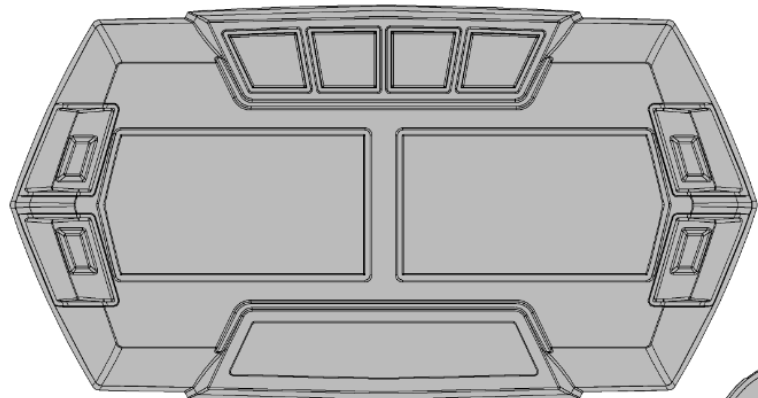
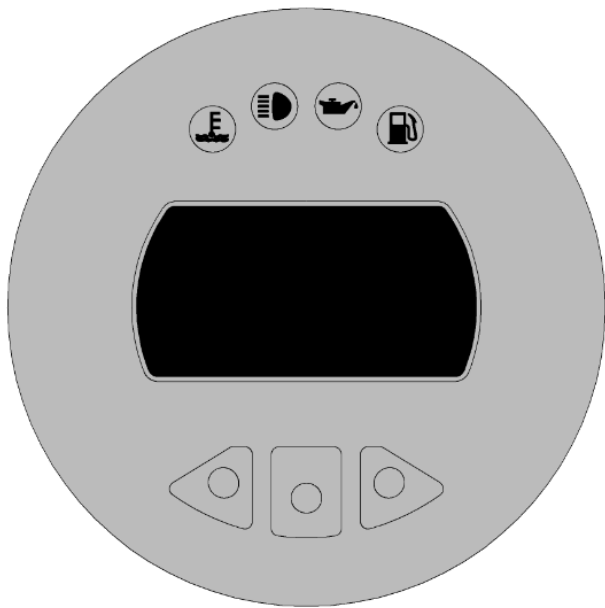


NOTES:
1. CONNECTORS SHOWN FROM MATING SURFACE SIDE.
2. BLK ■ INDICATES WIRE SPLICE, THIS EXAMPLE INDICATES BLK SPLICE A.

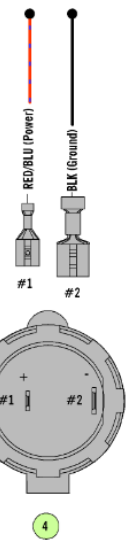
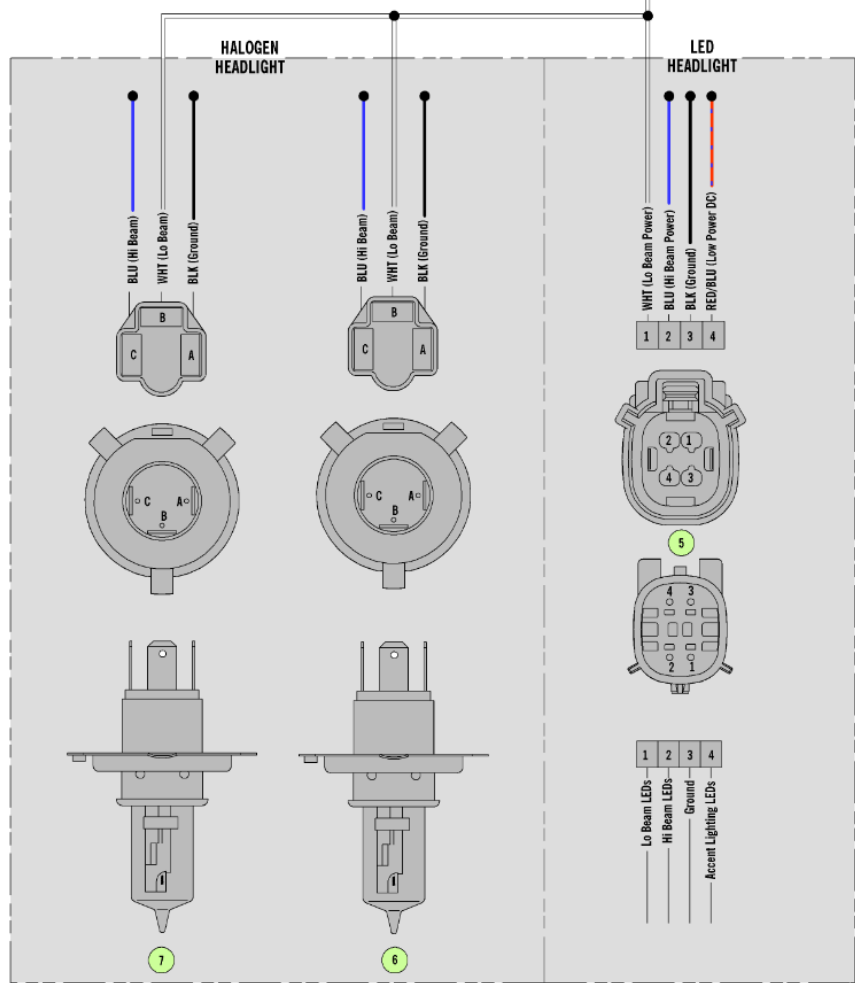
0752-740

Hood Harness
9000 Models

- 1 SPEEDOMETER/TACHOMETER
- 2 CONNECTOR, MAIN HARNESS
- 3 CONNECTOR, KEYSWITCH
- 4 OUTLET, 12V ACCESSORY
- 5 HEADLIGHT, LED
- 6 HEADLIGHT, HALOGEN B
- 7 HEADLIGHT, HALOGEN A



SWITCH FUNCTION	CIRCUIT DIAGRAM*			
	TERMINAL 'A'	TERMINAL 'B'	TERMINAL 'C'	TERMINAL 'D'
OFF	●	●	●	●
ON	●	●	●	●
START	●	●	●	●

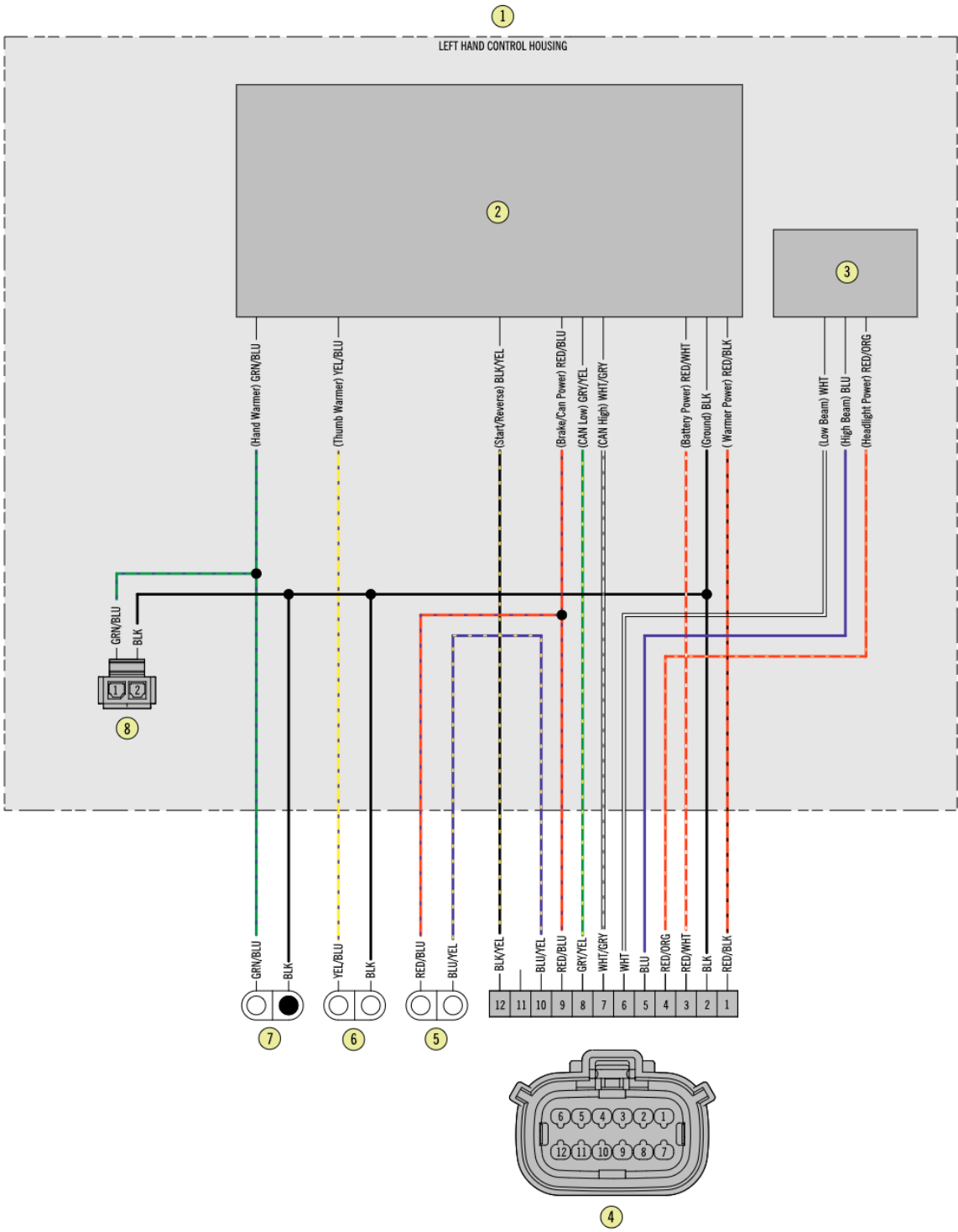


- NOTES:
- 1. CONNECTORS SHOWN FROM MATING SURFACE SIDE.
 - 2. **BLK**  INDICATES WIRE SPLICE, THIS EXAMPLE INDICATES BLK SPLICE A.

0752-224

(p/n 0609-843/971/973)
Left-Side Handlebar Control

- 1 LH CONTROL HOUSING
- 2 CIRCUIT BOARD
- 3 MODULE, BEAM
- 4 CONNECTOR, MAIN
- 5 CONNECTOR, BRAKE
- 6 CONNECTOR, THUMB WARMER
- 7 CONNECTOR, RH WARMER
- 8 CONNECTOR, LH WARMER

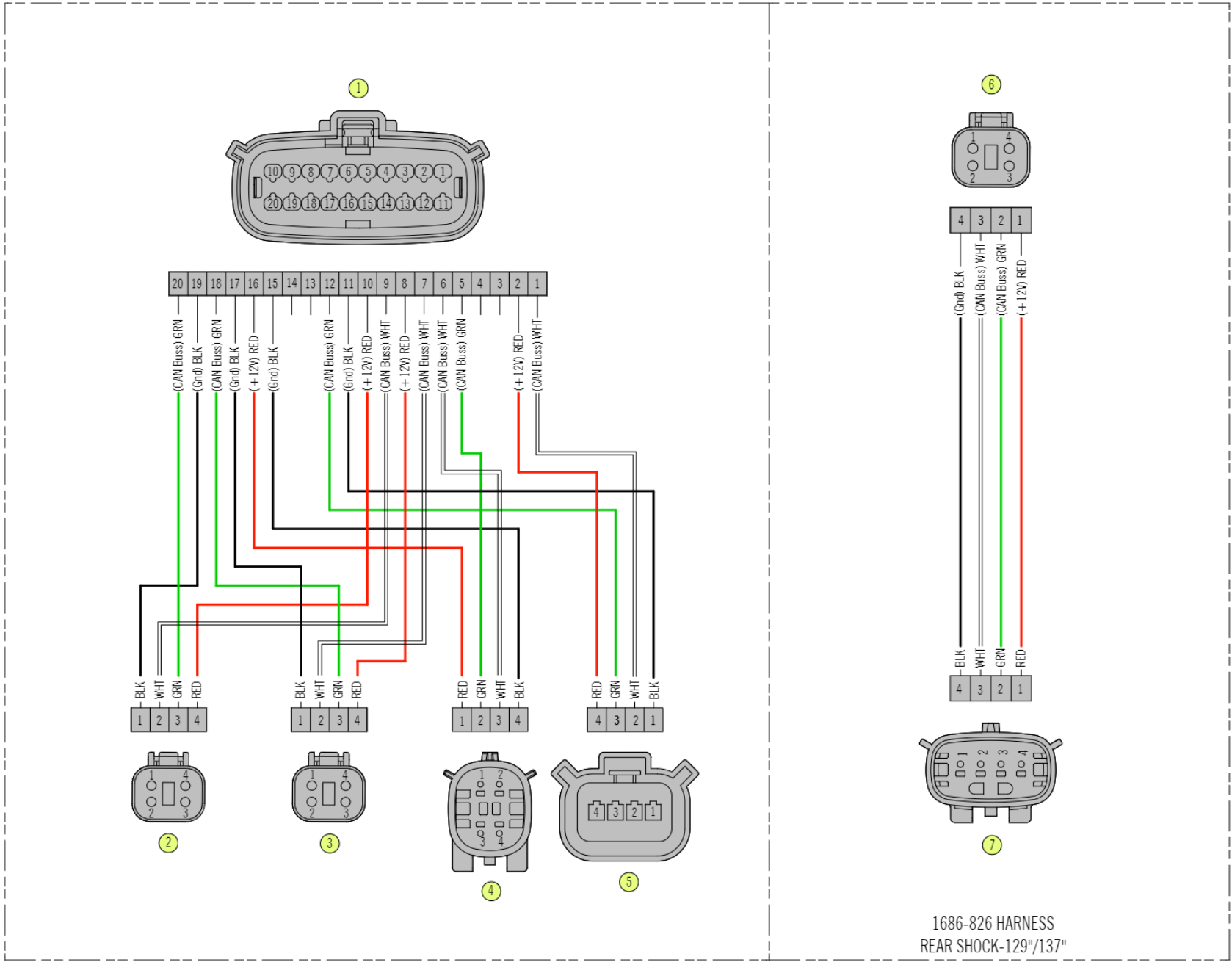


NOTES:
1. CONNECTORS SHOWN FROM MATING SURFACE SIDE.
2. ● MALE PIN TERMINAL
○ FEMALE RECEPTACLE TERMINAL

0752-745

(p/n 1686-826)
iACT Main Harness

- 1 CONNECTOR, SUSPENSION MODULE
- 2 CONNECTOR, LEFT SKI
- 3 CONNECTOR, RIGHT SKI
- 4 CONNECTOR, POWER CAN
- 5 CONNECTOR, REAR TRACK
- 6 CONNECTOR, REAR SHOCK
- 7 CONNECTOR, REAR TRACK



0752-744