2007 ATV WIRING DIAGRAMS

The wiring diagrams are located in this chart in the following sequence:

Page		Page	
1.	90 DVX	7.	500 Manual
1.	90 Utility	8.	500 Auto
2.	250 DVX	9.	650 H1 LE/TBX/TRV
3.	250 Utility	10.	700 EFI
4.	400 FIS Manual	11.	Prowler
5.	400 FIS Auto/LE	12.	Prowler XT
6.	400 TRV	13.	700 Diesel

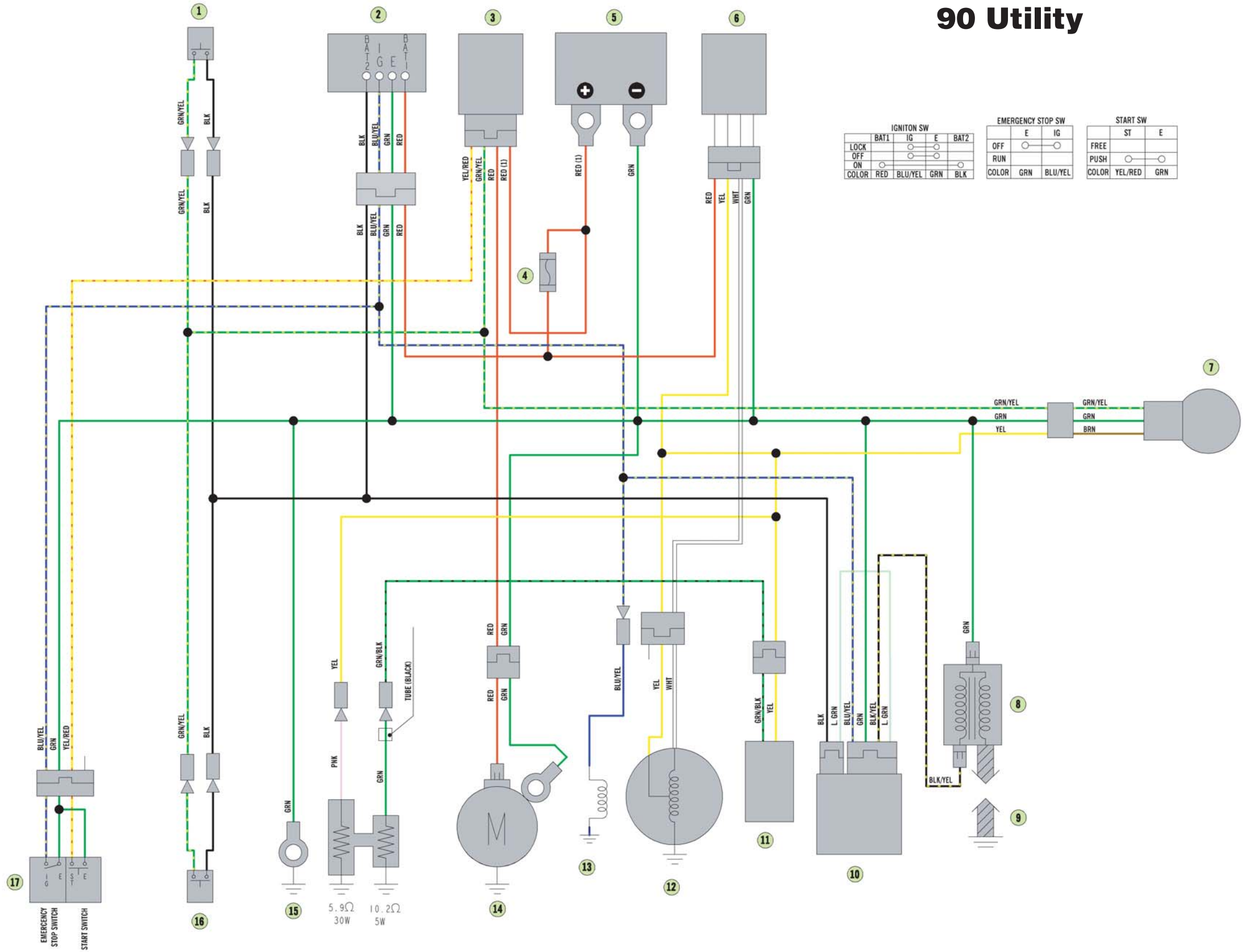
ARCTIC CAT®

© Arctic Cat Inc., 2006, Thief River Falls, MN 56701®™Trademarks of Arctic Cat Inc., P.O Box 810, Thief River Falls, MN 56701 p/n 2257-906

Wiring Diagram
Harness (p/n 3303-419)

90 DVX
90 Utility

1. SWITCH, FRONT BRAKE
2. SWITCH, IGNITION
3. RELAY, START
4. FUSE, 7A
5. BATTERY, 12V 5AH
6. REGULATOR/RECTIFIER
7. LIGHT, TAIL/STOP
8. COIL, IGN.
9. SPARK PLUG
10. CDI
11. AUTO B/S
12. ACG
13. PULSER
14. MOTOR, STARTER
15. GROUND
16. SWITCH, REAR BRAKE
17. CONTROLS, HAND



IGNITON SW

	BAT1	IG	E	BAT2
LOCK				
OFF		○	○	
ON	○	○		○
COLOR	RED	BLU/YEL	GRN	BLK

EMERGENCY STOP SW

	E	IG
OFF	○	○
RUN		
COLOR	GRN	BLU/YEL

START SW

	ST	E
FREE		
PUSH	○	○
COLOR	YEL/RED	GRN

Wiring Diagram
Harness (p/n 3304-276)

250 DVX

1. IGNITION UNIT
2. FUSE BOX
3. SWITCH, IGNITION
4. SWITCH, GEAR SELECTION
5. DIODE, NEUTRAL
6. RELAY, START IN GEAR
7. SWITCH, BRAKE
8. START MAG
9. BATTERY, 12V 10AH
10. MOTOR, START
11. GROUND
12. LIGHT, TAIL/STOP
13. PULSER
14. ACG
15. REGULATOR/RECTIFIER ASSY.
16. COIL, IGNITION
17. SPARK PLUG
18. SWITCH, TEMP.
19. MOTOR, FAN
20. FILTER, EMI
21. SENSOR, TEMP.
22. CONTROLS, HAND
23. SWITCH, BRAKE
24. LIGHT, INDICATOR FR POSITION
25. HEADLIGHT
26. LIGHT, TEMP. METER
27. LIGHT, NEUTRAL PILOT
28. LIGHT, REVERSE GEAR PILOT
29. LIGHT, HIGH BEAM PILOT
30. LIGHT, HIGH BEAM PILOT

FUSE A: 30A(MAIN)
FUSE B: 15A(LIGHT)
FUSE C: 10A(CHARGE)
FUSE D: 15A(BACKUP)

SWITCH, ENGINE STOP

OVER RIDE SW		
	L1	OF
FREE	○	○
PUSH		
COLOR	BLU/RED	GRN/RED

START SW		
	ST	C
FREE		
PUSH	○	○
COLOR	YEL/RED	BLK/WHT (1)

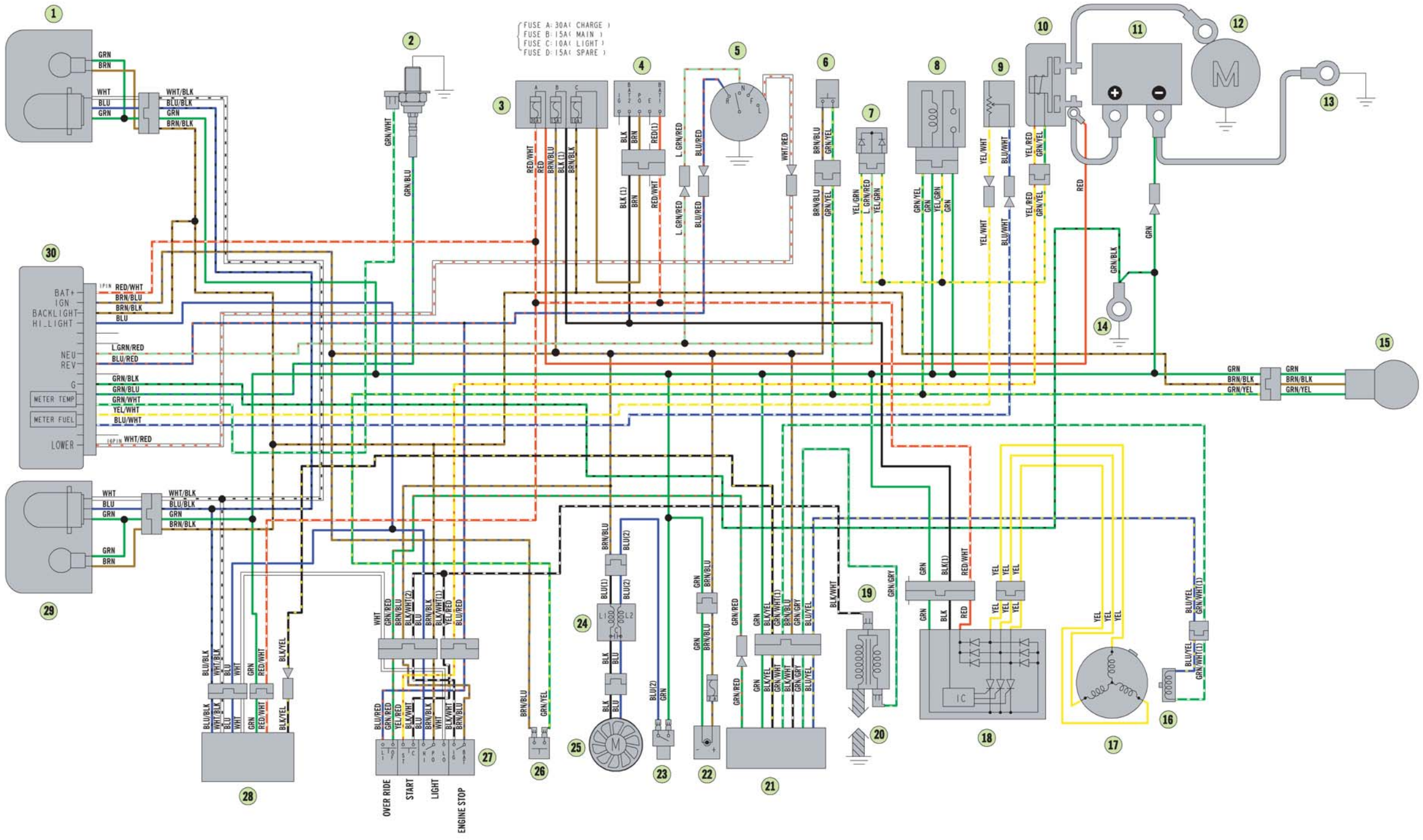
LIGHTS/DIMMER SW			
	PO	LO	HI
	○		
	○	○	
	○		○
COLOR	BRN/BLK	WHT	BLU

EMERGENCY STOP SW		
	BAT	IG
	○	○
COLOR	BRN/BLU	BLK/WHT (2)

IGNITON SW					
	IG	E	BAT1	BAT2	PO
OFF	○	○			
ON			○	○	
PO			○		○
COLOR	BLK/WHT	GRN	RED	BLK	BRN

Wiring Diagram
Harness (p/n 3303-838)
250 Utility

1. HEADLIGHT
2. SENSOR, THERMO
3. FUSE BOX
4. SWITCH, IGNITION
5. SWITCH, GEAR SELECTION
6. SWITCH, BRAKE
7. DIODE, NEUTRAL
8. RELAY, START IN GEAR
9. SENSOR, FUEL
10. START MAG.
11. BATTERY, 12V
12. MOTOR, STARTER
13. CONNECTOR, GROUND
14. CONNECTOR, GROUND
15. LIGHT, TAIL/STOP
16. PULSER
17. ACG
18. REGULATOR/RECTIFIER
19. COIL, IGNITION
20. SPARK PLUG
21. IGNITION UNIT
22. CONNECTOR, ACCESSORY,
23. SWITCH, THERMO
24. FILTER, EMI
25. MOTOR. FAN
26. SWITCH, BRAKE
27. CONTROLS, HAND
28. CONTROL, LIGHTING
29. HEAD LIGHT
30. GAUGE/LCD



OVER RIDE SW

	L1	OF
FREE	○	○
PUSH		
COLOR	BLU/RED	GRN/RED

START SW

	ST	C
FREE		
PUSH	○	○
COLOR	YEL/RED	BLK/WHT (1)

LIGHTS/DIMMER SW

	PO	LO	HI
	○		
	○	○	
	○	○	○
COLOR	BRN/BLK	WHT	BLU

EMERGENCY STOP SW

	BAT	IG
	○	○
COLOR	BRN/BLU	BLK/WHT (2)

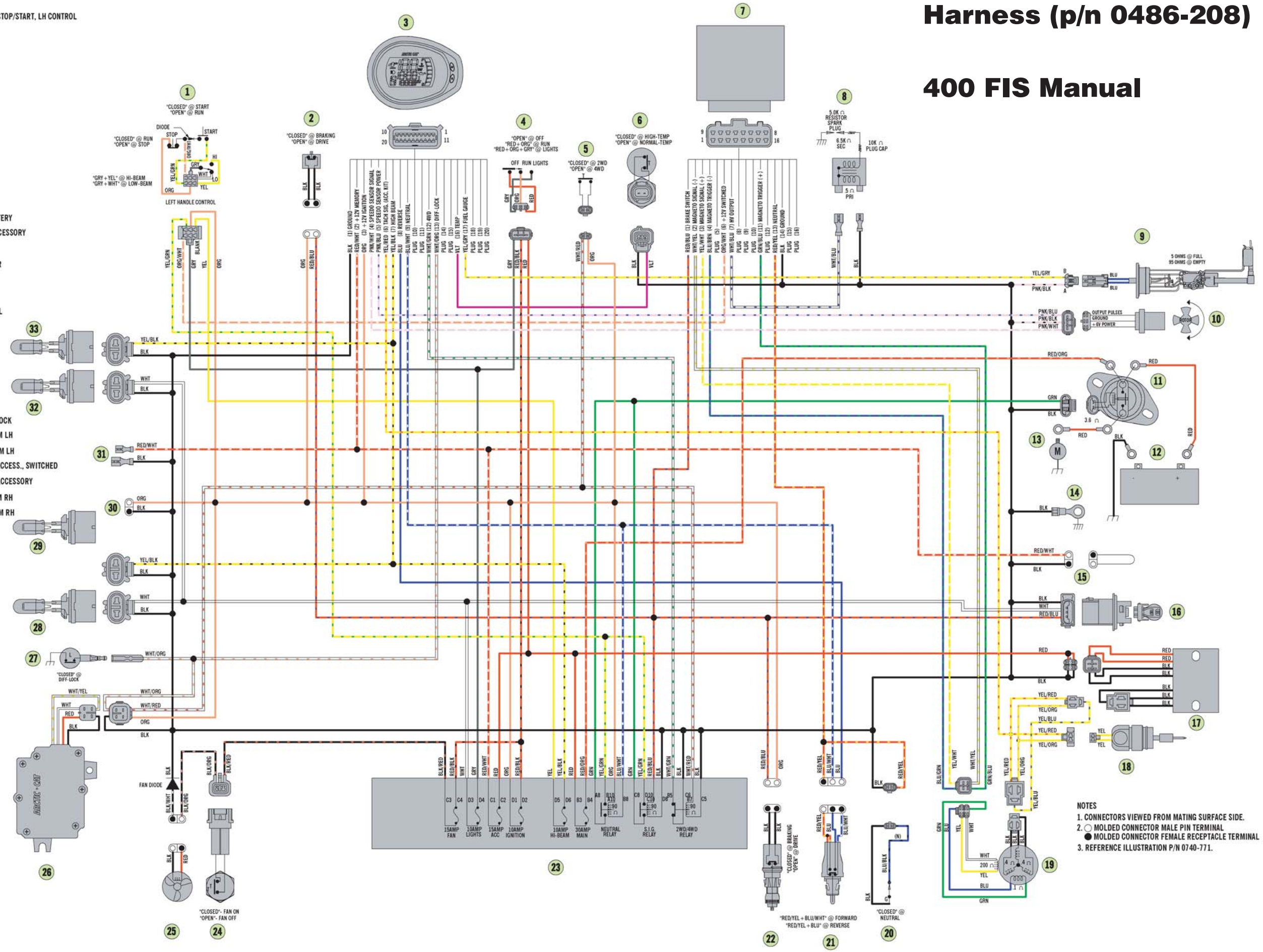
IGNITON SW

	IG	E	BAT1	BAT2	PO
OFF	○	○			
ON			○	○	
PO			○	○	○
COLOR	BLK/WHT	GRN	RED	BLK	BRN

Wiring Diagram
Harness (p/n 0486-208)

400 FIS Manual

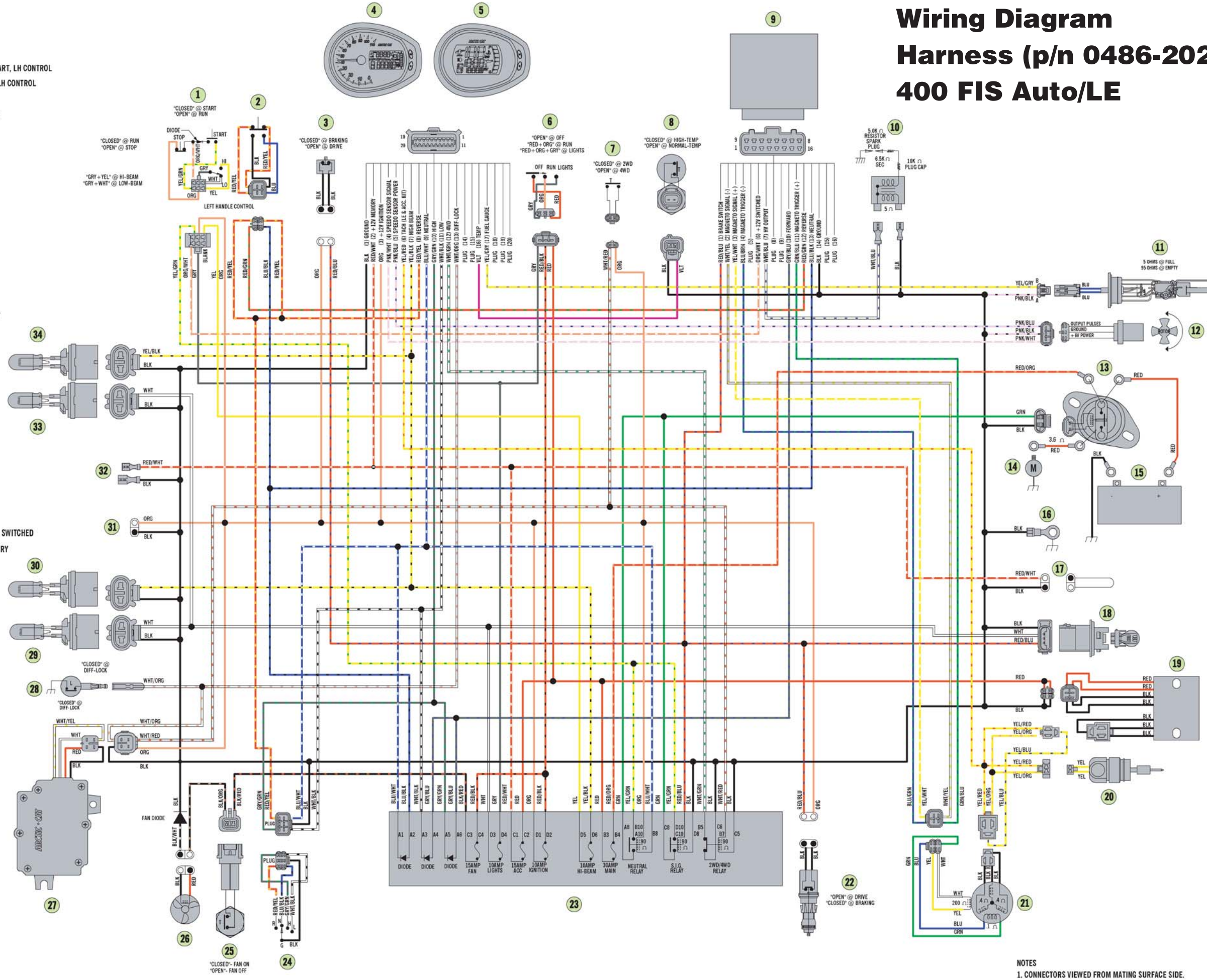
1. SWITCH, EMERGENCY STOP/START, LH CONTROL
2. SWITCH, HAND BRAKE
3. GUAGE, LCD
4. SWITCH, KEY
5. SWITCH, 2WD/4WD
6. LIGHT, TEMP. SWITCH
7. CDI
8. COIL, IGNITION
9. SENSOR, FUEL LEVEL
10. SENSOR, SPEEDO
11. SOLENOID, STARTER
12. BATTERY, 12V
13. MOTOR, STARTER
14. GROUND, ENGINE/BATTERY
15. CONNECTOR, REAR ACCESSORY
16. TAILLIGHT
17. REGULATOR/RECTIFIER
18. CHOKE, ELECTRIC
19. MAGNETO
20. SWITCH, ENG. NEUTRAL
21. SWITCH, REVERSE
22. SWITCH, FOOT BRAKE
23. PDM
24. SWITCH, TEMP. FAN
25. MOTOR, FAN
26. ACTUATOR, 2WD/4WD
27. SWITCH, 4 WD. DIFF. LOCK
28. HEADLIGHT, LOW-BEAM LH
29. HEADLIGHT, HIGH-BEAM LH
30. CONNECTORS, FRONT ACCESS., SWITCHED
31. CONNECTORS, FRONT ACCESSORY
32. HEADLIGHT, LOW-BEAM RH
33. HEADLIGHT, HIGH-BEAM RH



NOTES
1. CONNECTORS VIEWED FROM MATING SURFACE SIDE.
2. ○ MOLDED CONNECTOR MALE PIN TERMINAL
   ● MOLDED CONNECTOR FEMALE RECEPTACLE TERMINAL
3. REFERENCE ILLUSTRATION P/N 0740-771.

Wiring Diagram
Harness (p/n 0486-202)
400 FIS Auto/LE

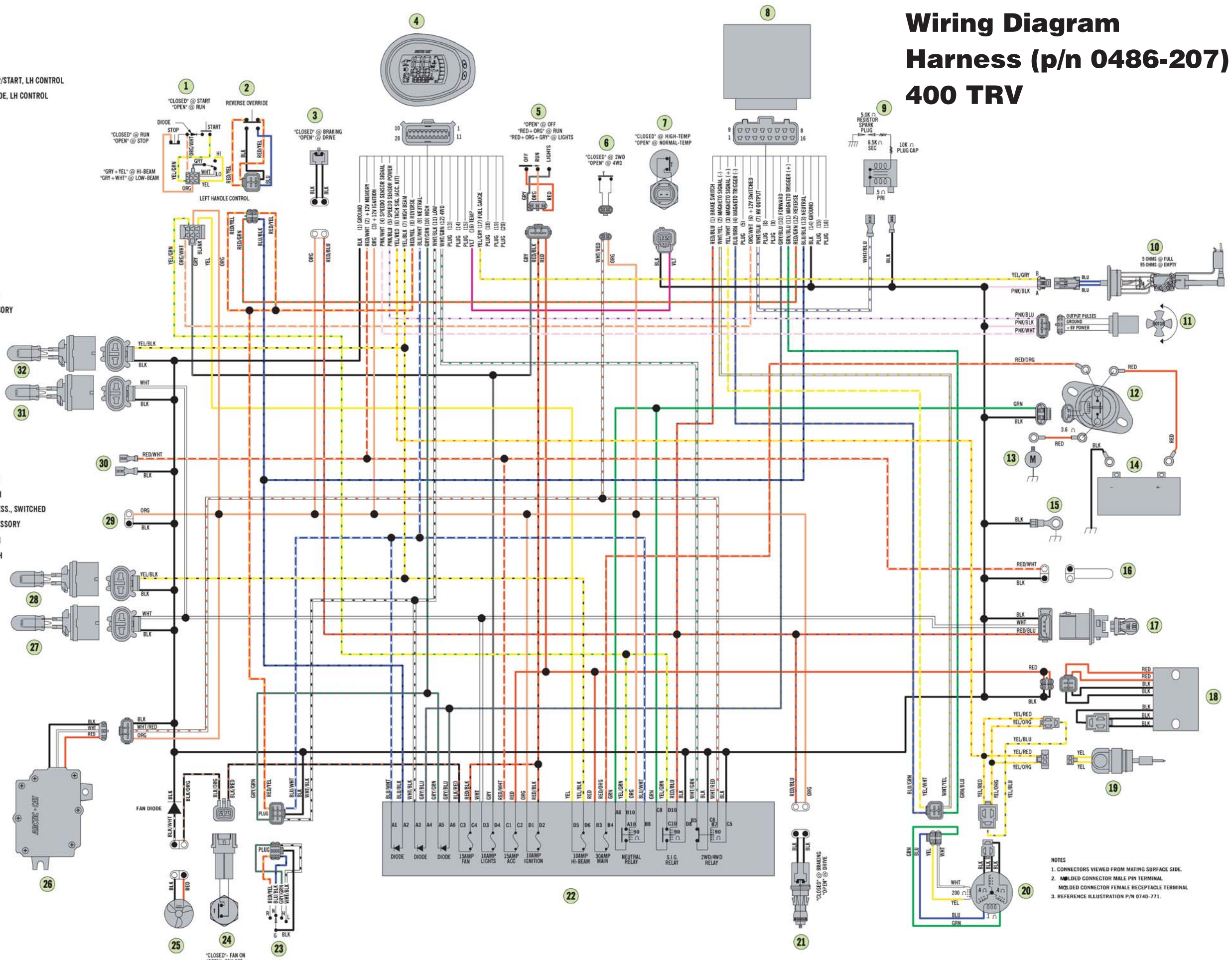
1. SWITCH, EMERGENCY STOP/START, LH CONTROL
2. SWITCH, REVERSE OVERRIDE, LH CONTROL
3. SWITCH, HAND BRAKE
4. GUAGE, ANALOG/LCD (LE ONLY)
5. GUAGE, LCD
6. SWITCH, KEY
7. SWITCH, 2WD/4WD
8. LIGHT, TEMP. SWITCH
9. CDI
10. COIL, IGNITION
11. SENSOR, FUEL LEVEL
12. SENSOR, SPEEDO
13. SOLENOID, STARTER
14. MOTOR, STARTER
15. BATTERY, 12V
16. GROUND, ENGINE/BATTERY
17. CONNECTOR, REAR ACCESSORY
18. TAILLIGHT
19. REGULATOR/RECTIFIER
20. CHOKE, ELECTRIC
21. MAGNETO
22. SWITCH, FOOT BRAKE
23. PDM
24. SWITCH, GEAR
25. SWITCH, TEMP. FAN
26. MOTOR, FAN
27. ACTUATOR, 2WD/4WD
28. SWITCH, 4 WD. DIFF. LOCK
29. HEADLIGHT, LOW-BEAM LH
30. HEADLIGHT, HIGH-BEAM LH
31. CONNECTORS, FRONT ACCESS., SWITCHED
32. CONNECTORS, FRONT ACCESSORY
33. HEADLIGHT, LOW-BEAM RH
34. HEADLIGHT, HIGH-BEAM RH



NOTES
1. CONNECTORS VIEWED FROM MATING SURFACE SIDE.
2. ● MOLDED CONNECTOR MALE PIN TERMINAL
   ○ MOLDED CONNECTOR FEMALE RECEPTACLE TERMINAL

Wiring Diagram
Harness (p/n 0486-207)
400 TRV

1. SWITCH, EMERGENCY STOP/START, LH CONTROL
2. SWITCH, REVERSE OVERRIDE, LH CONTROL
3. SWITCH, HAND BRAKE
4. GUAGE, LCD
5. SWITCH, KEY
6. SWITCH, 2WD/4WD
7. LIGHT, TEMP. SWITCH
8. CDI
9. COIL, IGNITION
10. SENSOR, FUEL LEVEL
11. SENSOR, SPEEDO
12. SOLENOID, STARTER
13. MOTOR, STARTER
14. BATTERY, 12V
15. GROUND, ENGINE/BATTERY
16. CONNECTOR, REAR ACCESSORY
17. TAILLIGHT
18. REGULATOR/RECTIFIER
19. CHOKE, ELECTRIC
20. MAGNETO
21. SWITCH, FOOT BRAKE
22. PDM
23. SWITCH, GEAR
24. SWITCH, TEMP. FAN
25. MOTOR, FAN
26. ACTUATOR, 2WD/4WD
27. HEADLIGHT, LOW-BEAM LH
28. HEADLIGHT, HIGH-BEAM LH
29. CONNECTORS, FRONT ACCESS., SWITCHED
30. CONNECTORS, FRONT ACCESSORY
31. HEADLIGHT, LOW-BEAM RH
32. HEADLIGHT, HIGH-BEAM RH

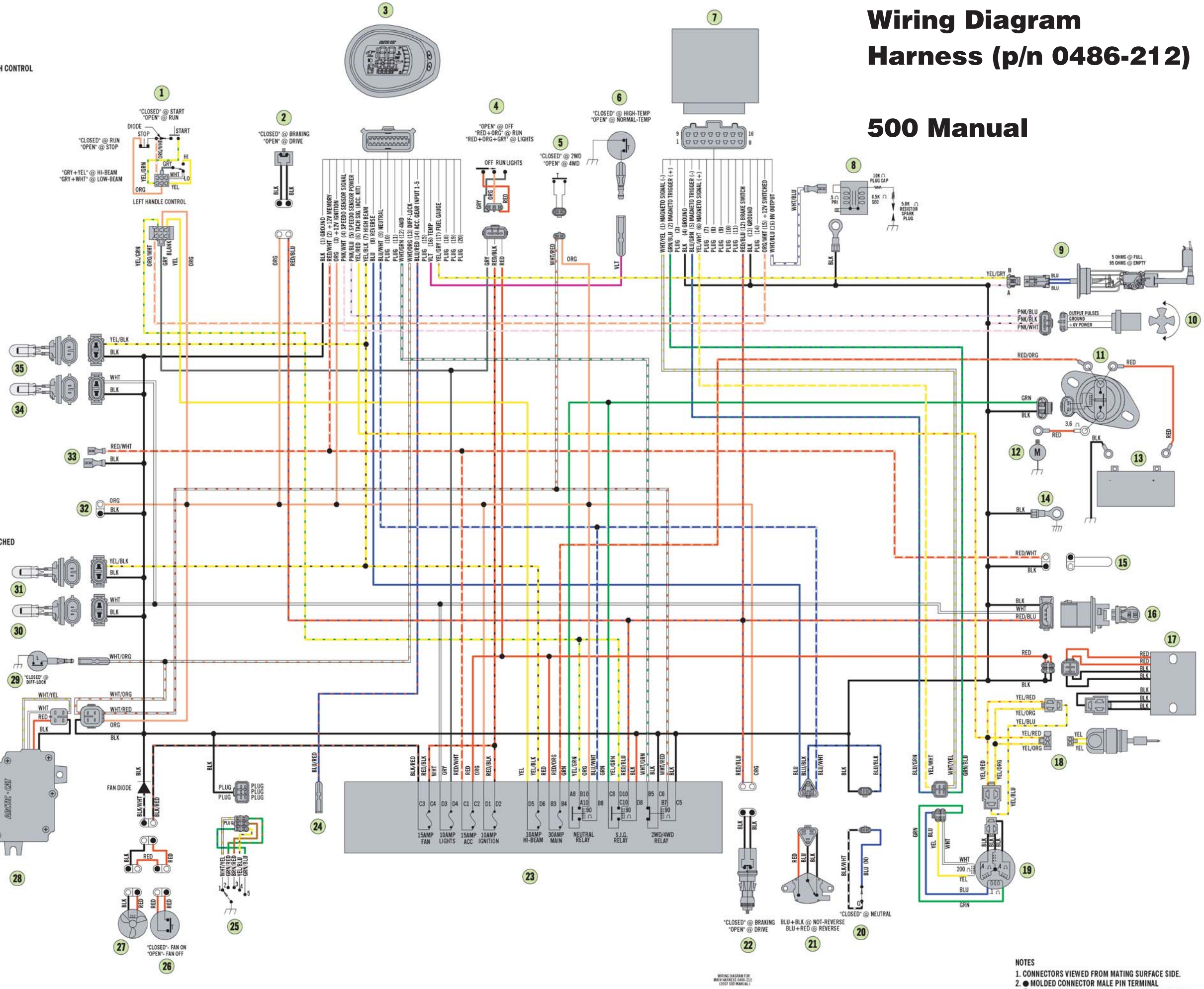


NOTES
1. CONNECTORS VIEWED FROM MATING SURFACE SIDE.
2. MOLDED CONNECTOR MALE PIN TERMINAL
   MOLDED CONNECTOR FEMALE RECEPTACLE TERMINAL
3. REFERENCE ILLUSTRATION P/N 0740-771.

Wiring Diagram
Harness (p/n 0486-212)

500 Manual

1. SWITCH, EMERGENCY STOP/START, LH CONTROL
2. SWITCH, HAND BRAKE
3. GUAGE, LCD
4. SWITCH, KEY
5. SWITCH, 2WD/4WD
6. LIGHT, TEMP. SWITCH
7. CDI
8. COIL, IGNITION
9. SENSOR, FUEL LEVEL
10. SENSOR, SPEEDO
11. SOLENOID, STARTER
12. MOTOR, STARTER
13. BATTERY, 12V
14. GROUND, ENGINE/BATTERY
15. CONNECTOR, REAR ACCESSORY
16. TAILLIGHT
17. REGULATOR/RECTIFIER
18. CHOKE, ELECTRIC
19. MAGNETO
20. SWITCH, ENG. NEUTRAL
21. SWITCH, REVERSE
22. SWITCH, FOOT BRAKE
23. PDM
24. MODULE, ACCESS. GEAR SWITCH
25. SWITCH, GEAR
26. SWITCH, TEMP. FAN
27. MOTOR, FAN
28. ACTUATOR, 2WD/4WD
29. SWITCH, 4 WD. DIFF. LOCK
30. HEADLIGHT, LOW-BEAM LH
31. HEADLIGHT, HIGH-BEAM LH
32. CONNECTORS, FRONT ACCESS., SWITCHED
33. CONNECTORS, FRONT ACCESSORY
34. HEADLIGHT, LOW-BEAM RH
35. HEADLIGHT, HIGH-BEAM RH

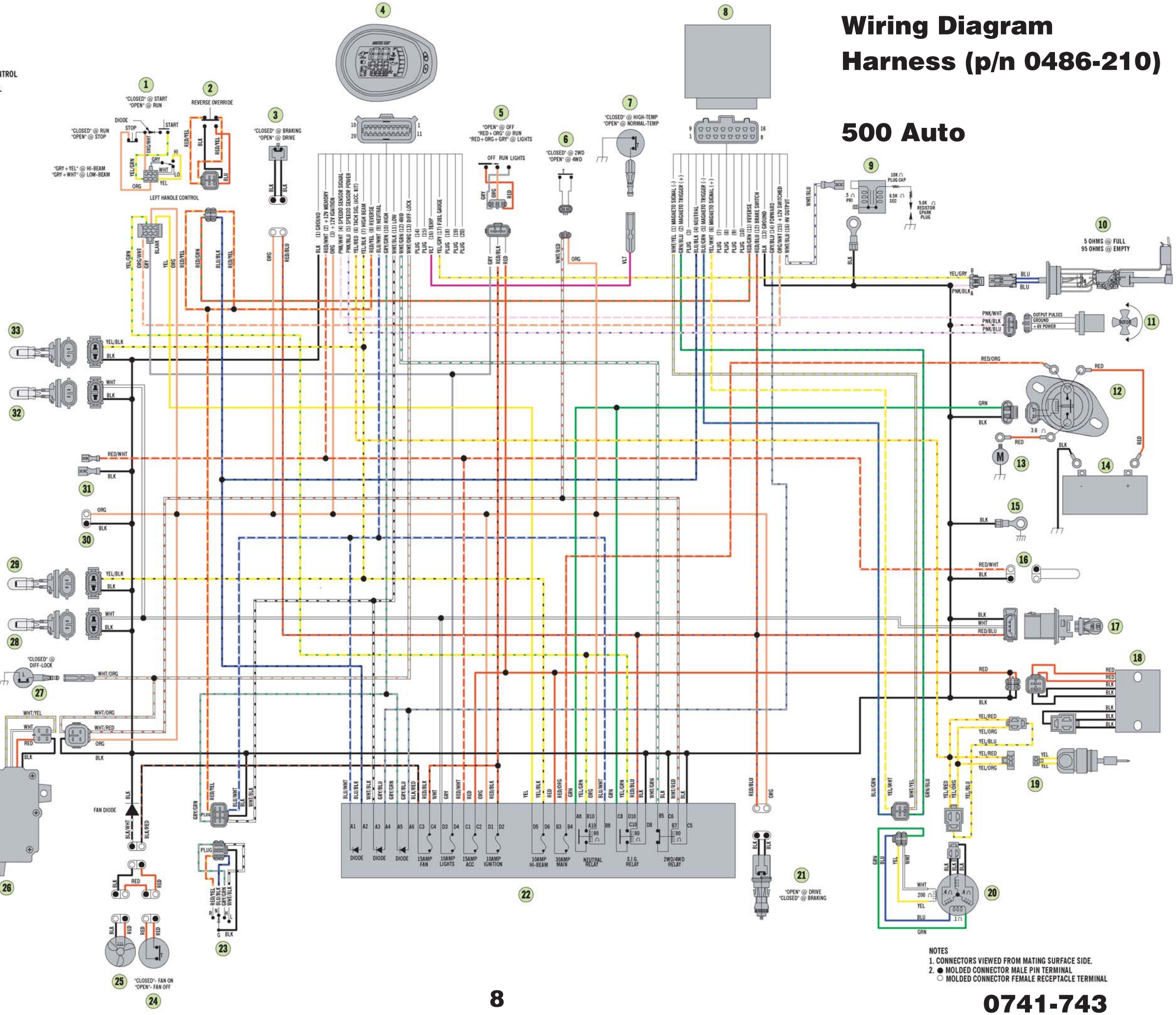


NOTES
1. CONNECTORS VIEWED FROM MATING SURFACE SIDE.
2. ● MOLDED CONNECTOR MALE PIN TERMINAL
○ MOLDED CONNECTOR FEMALE RECEPTACLE TERMINAL

Wiring Diagram
Harness (p/n 0486-210)

500 Auto

1. SWITCH, EMERGENCY STOP/START, LH CONTROL
2. SWITCH, REVERSE OVERRIDE, LH CONTROL
3. SWITCH, HAND BRAKE
4. GUAGE, LCD
5. SWITCH, KEY
6. SWITCH, 2WD/4WD
7. LIGHT, TEMP. SWITCH
8. CDI
9. COIL, IGNITION
10. SENSOR, FUEL LEVEL
11. SENSOR, SPEEDO
12. SOLENOID, STARTER
13. BATTERY, 12V
14. MOTOR, STARTER
15. GROUND, ENGINE/BATTERY
16. CONNECTOR, REAR ACCESSORY
17. TAILLIGHT
18. REGULATOR/RECTIFIER
19. CHOKE, ELECTRIC
20. MAGNETO
21. SWITCH, FOOT BRAKE
22. PDM
23. SWITCH, GEAR
24. SWITCH, TEMP. FAN
25. MOTOR, FAN
26. ACTUATOR, 2WD/4WD
27. SWITCH, 4 WD. DIFF. LOCK
28. HEADLIGHT, LOW-BEAM LH
29. HEADLIGHT, HIGH-BEAM LH
30. CONNECTORS, FRONT ACCESS., SWITCHED
31. CONNECTORS, FRONT ACCESSORY
32. HEADLIGHT, LOW-BEAM RH
33. HEADLIGHT, HIGH-BEAM RH



NOTES
1. CONNECTORS VIEWED FROM MATING SURFACE SIDE.
2. ● MOLDED CONNECTOR MALE PIN TERMINAL
   ○ MOLDED CONNECTOR FEMALE RECEPTACLE TERMINAL

0741-743

Wiring Diagram
Harness (p/n 0486-213) - LE
(p/n 0486-215) - TBX
(p/n 0486-216) - TRV
650 H1 LE/TBX/TRV

1. SWITCH, EMERGENCY STOP/START, LH CONTROL
2. SWITCH, REVERSE OVERRIDE, LH CONTROL
3. SWITCH, HAND BRAKE
4. GUAGE, ANALOG/LCD (LE ONLY)
5. GUAGE, LCD
6. SWITCH, KEY
7. SWITCH, 2WD/4WD
8. LIGHT, TEMP. SWITCH
9. CDI
10. COIL, IGNITION
11. SENSOR, FUEL LEVEL
12. SENSOR, SPEEDO
13. SOLENOID, STARTER
14. BATTERY, 12V
15. MOTOR, STARTER
16. CONNECTOR, ENGINE/BATT. GROUND
17. CONNECTOR, REAR ACCESSORY
18. TAILLIGHT
19. REGULATOR/RECTIFIER
20. CHOKE, ELECTRIC
21. MEGNETO
22. SWITCH, BRAKE FOOT
23. PDM
24. SWITCH, GEAR
25. SWITCH, TEMP. FAN
26. MOTOR, FAN
27. ACTUATOR, 2WD/4WD
28. SWITCH, 4 WD. DIFF. LOCK
29. HEADLIGHT, LOW-BEAM LH
30. HEADLIGHT, HIGH-BEAM LH
31. CONNECTORS, SWITCHED ACCESSORY
32. CONNECTORS, FRONT ACCESSORY
33. HEADLIGHT, LOW-BEAM RH
34. HEADLIGHT, HIGH-BEAM RH

NOTES
1. CONNECTORS VIEWED FROM MATING SURFACE SIDE.
2. ● MOLDED CONNECTOR MALE PIN TERMINAL
   ○ MOLDED CONNECTOR FEMALE RECEPTACLE TERMINAL

Wiring Diagram Harness (p/n 0486-217) 700 EFI

1. SWITCH, EMERGENCY STOP/START, LH CONTROL
2. SWITCH, REVERSE OVERRIDE, LH CONTROL
3. SWITCH, HAND BRAKE
4. GUAGE, ANALOG/LCD (LE & ACCESS. KIT ONLY)
5. GUAGE, LCD
6. SWITCH, KEY
7. SWITCH, 2WD/4WD
8. SENSOR, THROTTLE POSITION
9. SENSOR, WATER TEMP.
10. ECU
11. CONNECTOR, DIAGNOSTICS
12. COIL, IGNITION
13. PUMP, FUEL/SENSOR, FUEL LEVEL
14. INJECTOR, FUEL
15. SENSOR, SPEEDO
16. SOLENOID, STARTER
17. MOTOR, STARTER
18. BATTERY, 12V
19. GROUND, ENGINE/BATTERY
20. CONNECTOR, REAR ACCESSORY
21. TAILLIGHT
22. REGULATOR/RECTIFIER
23. MAGNETO
24. SENSOR, CRANK ANGLE
25. SENSOR, TILT
26. SWITCH, FOOT BRAKE
27. CONTROL, IDLE SPEED
28. RELAY, 2WD
29. RELAY, 2WD/4WD
30. PDM
31. SWITCH, GEAR
32. SWITCH, TEMP. FAN
33. MOTOR, FAN
34. ACTUATOR, 2WD/4WD
35. SWITCH, 4 WD. DIFF. LOCK
36. HEADLIGHT, LOW-BEAM LH
37. HEADLIGHT, HIGH-BEAM LH
38. CONNECTORS, FRONT ACCESS., SWITCHED
39. CONNECTORS, FRONT ACCESSORY
40. HEADLIGHT, LOW-BEAM RH
41. HEADLIGHT, HIGH-BEAM RH
42. SENSOR, AIR PRESSURE
43. SENSOR, AIR TEMP.

NOTES
1. CONNECTORS VIEWED FROM MATING SURFACE SIDE.
2. ● MOLDED CONNECTOR MALE PIN TERMINAL
   ○ MOLDED CONNECTOR FEMALE RECEPTACLE TERMINAL

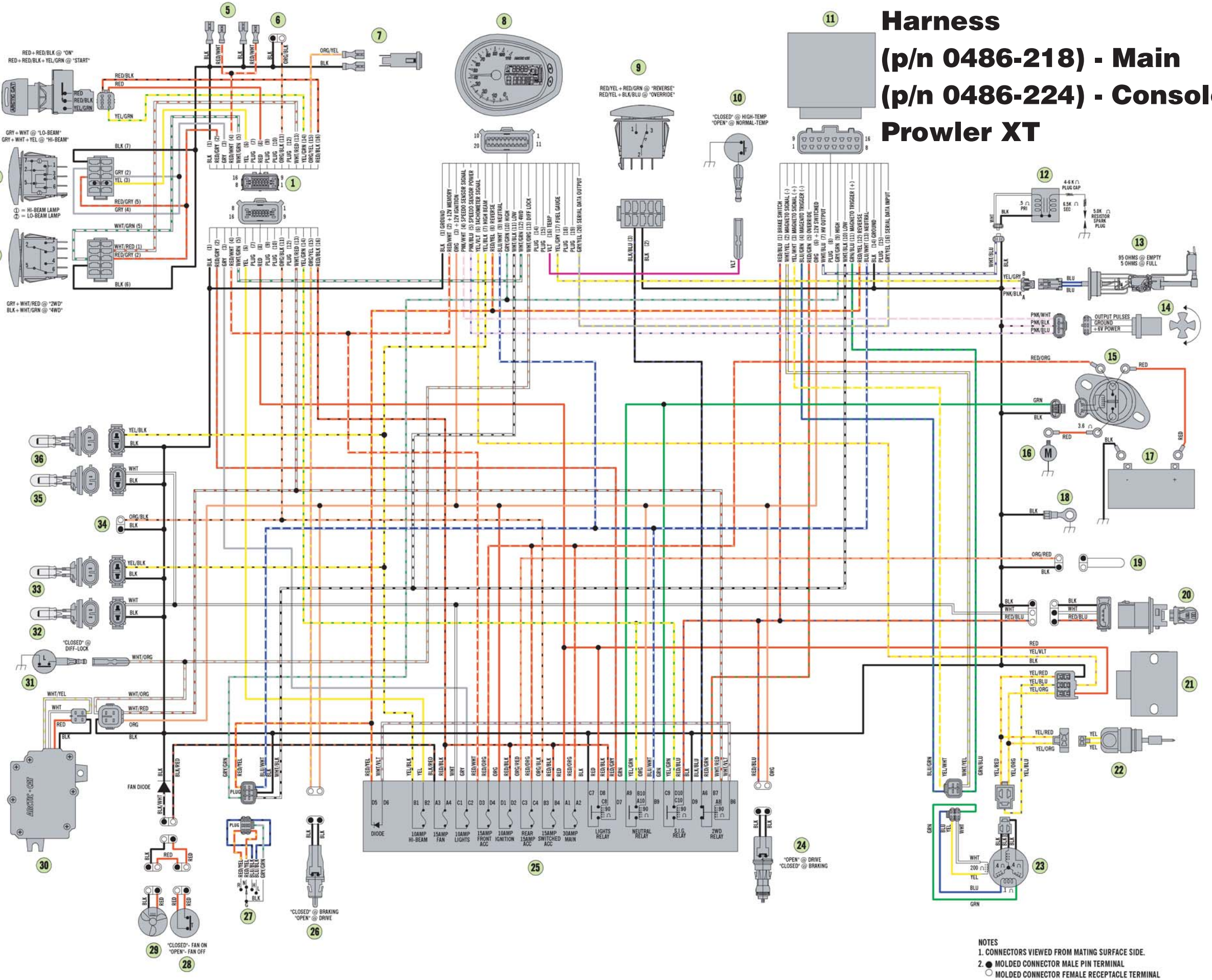
Wiring Diagram Harness (p/n 0486-220) Prowler

1. HARNESS, CONSOLE (P/N 0486-221)
2. SWITCH, 2WD/4WD
3. SWITCH, HI/LO BEAM
4. SWITCH, KEY
5. CONNECTORS, FRONT ACCESS.
6. CONNECTOR, SWITCHED FRONT ACCESS.
7. LIGHT, PARKING BRAKE
8. LIGHT, REVERSE
9. LIGHT, NEUTRAL
10. LIGHT, TEMP.
11. SWITCH, OVERIDE
12. LIGHT, TEMP. SWITCH
13. CDI
14. COIL, IGNITION
15. SOLENOID, STARTER
16. MOTOR, STARTER
17. BATTERY, 12V
18. CONNECTOR, ENGINE/BATT. GROUND
19. CONNECTOR, REAR ACCESSORY
20. TAILLIGHT
21. REGULATOR/RECTIFIER
22. CHOKE, ELECTRIC
23. MAGNETO
24. SWITCH, BRAKE FOOT
25. PDM
26. SWITCH, PARKING BRAKE LIGHT
27. SWITCH, GEAR
28. SWITCH, TEMP. FAN
29. MOTOR, FAN
30. ACTUATOR, 2WD/4WD
31. HEADLIGHT, LOW-BEAM LH
32. HEADLIGHT, HIGH-BEAM LH
33. CONNECTORS, SWITCHED ACCESSORY
34. HEADLIGHT, LOW-BEAM RH
35. HEADLIGHT, HIGH-BEAM RH

NOTES
1. CONNECTORS VIEWED FROM MATING SURFACE SIDE.
2. ● MOLDED CONNECTOR MALE PIN TERMINAL
   ○ MOLDED CONNECTOR FEMALE RECEPTACLE TERMINAL

Wiring Diagram
Harness
(p/n 0486-218) - Main
(p/n 0486-224) - Console
Prowler XT

1. HARNESS, CONSOLE (P/N 0486-224)
2. SWITCH, 2WD/4WD
3. SWITCH, HI/LO BEAM
4. SWITCH, KEY
5. CONNECTORS, FRONT ACCESS.
6. CONNECTOR, SWITCHED FRONT ACCESS.
7. LIGHT, PARKING BRAKE
8. SPEEDO, ANALOG/LCD
9. SWITCH, OVERIDE
10. LIGHT, TEMP. SWITCH
11. CDI
12. COIL, IGNITION
13. SENSOR, FUEL LEVEL
14. SENSOR, SPEEDO
15. SOLENOID, STARTER
16. MOTOR, STARTER
17. BATTERY, 12V
18. CONNECTOR, ENGINE/BATT. GROUND
19. CONNECTOR, REAR ACCESSORY
20. TAILLIGHT
21. REGULATOR/RECTIFIER
22. CHOKE, ELECTRIC
23. MAGNETO
24. SWITCH, BRAKE FOOT
25. PDM
26. SWITCH, PARKING BRAKE LIGHT
27. SWITCH, GEAR
28. SWITCH, TEMP. FAN
29. MOTOR, FAN
30. ACTUATOR, 2WD/4WD
31. SWITCH, 4 WD. DIFF. LOCK
32. HEADLIGHT, LOW-BEAM LH
33. HEADLIGHT, HIGH-BEAM LH
34. CONNECTORS, SWITCHED ACCESSORY
35. HEADLIGHT, LOW-BEAM RH
36. HEADLIGHT, HIGH-BEAM RH



NOTES
1. CONNECTORS VIEWED FROM MATING SURFACE SIDE.
2. ● MOLDED CONNECTOR MALE PIN TERMINAL
   ○ MOLDED CONNECTOR FEMALE RECEPTACLE TERMINAL

Wiring Diagram
Harness (p/n 0486-197)
700 Diesel

1. SWITCH, EMERGENCY STOP/START, LH CONTROL
2. LIGHT, BATTERY INDICATOR
3. LIGHT, GLOW PLUG INDICATOR
4. SWITCH, HAND BRAKE
5. GUAGE, LCD
6. SWITCH, KEY
7. SWITCH, 2WD/4WD
8. SWITCH, TEMP.
9. RELAY, GLOW PLUG
10. PLUG, GLOW
11. SWITCH, OIL PRESSURE
12. SENSOR, FUEL LEVEL
13. SENSOR, SPEEDO
14. RELAY, STARTER
15. BATTERY, 12V
16. MOTOR, STARTER
17. SOLENOID, STARTER
18. GROUND, ENGINE/BATTERY
19. CONNECTOR, REAR ACCESSORY
20. TAILLIGHT
21. SOLENOID, FUEL
22. ALTERNATOR
23. REGULATOR/RECTIFIER
24. BLOWER, BELT
25. SWITCH, BRAKE FOOT
26. PDM
27. SWITCH, GEAR
28. SWITCH, TEMP. FAN
29. MOTOR, FAN
30. ACTUATOR, 2WD/4WD
31. SWITCH, 4 WD. DIFF. LOCK
32. HEADLIGHT, LOW-BEAM LH
33. HEADLIGHT, HIGH-BEAM LH
34. CONNECTORS, FRONT ACCESS., SWITCHED
35. CONNECTORS, FRONT ACCESSORY
36. HEADLIGHT, LOW-BEAM RH
37. HEADLIGHT, HIGH-BEAM RH

NOTES
1. CONNECTORS VIEWED FROM MATING SURFACE SIDE.
2. ● MOLDED CONNECTOR MALE PIN TERMINAL
   ○ MOLDED CONNECTOR FEMALE RECEPTACLE TERMINAL