





**WIRE GROUP COLOR DESCRIPTIONS**

- ORANGE: ENGINE STOP
- RED: START SYSTEM VOLTAGE WHEN THE KEY SWITCH IS OFF
- RED: START SYSTEM VOLTAGE WHEN THE KEY SWITCH IS ON
- YELLOW: VOLTAGE CONVERTER CONTROL CIRCUIT
- GREEN: START AND STOP
- RED: TRANSMISSION POWER CONTROL CIRCUIT
- ORANGE: ENGINE CONTROL CIRCUIT
- RED: ENGINE AND TRANSDUCER CIRCUIT
- RED: TURN SIGNAL / POWER WINDOW CIRCUIT
- RED: LIGHTS
- RED: OTHER

**OTHER COLOR DESCRIPTIONS**

- RED: STOP

SYMBOL	DESCRIPTION	ABBREV	COLOR
1	GROUNDING	GR	GRAY
2	GROUND NOT CONNECTED	GN	WHITE
3	GROUND CHASSIS	GR	GRAY
4	GROUND (COMPONENT)	GR	GRAY
5	GROUND (WIRING)	GR	GRAY
6	GROUND (WIRING)	GR	GRAY
7	GROUND (WIRING)	GR	GRAY
8	GROUND (WIRING)	GR	GRAY
9	GROUND (WIRING)	GR	GRAY
10	GROUND (WIRING)	GR	GRAY
11	GROUND (WIRING)	GR	GRAY
12	GROUND (WIRING)	GR	GRAY
13	GROUND (WIRING)	GR	GRAY
14	GROUND (WIRING)	GR	GRAY
15	GROUND (WIRING)	GR	GRAY
16	GROUND (WIRING)	GR	GRAY
17	GROUND (WIRING)	GR	GRAY
18	GROUND (WIRING)	GR	GRAY

THIS SCHEMATIC IS FOR THE 120K2 AND 140K2 MOTOR GRADER ELECTRICAL SYSTEM  
MEDIA NUMBER: UENR5221  
SCHEMATIC PART NUMBER: 415-7661, CHANGE: 00, VERSION: CS  
Components are shown installed on a fully operable machine with the key and engine off, transmission shifter in neutral and with parking brake set.  
Refer to the appropriate Service Manual for Troubleshooting, Specifications and Systems Operations.