

March 17, 2009

TEAM UPDATE #18

GENERAL NOTICES

No changes.

Section 0 – Introduction through Section 7 – The Game

No changes.

Section 8 – The Robot

Wiring the Robot Signal Light

The Robot Signal Light, mandated by Rule <R58>, must be properly wired in order to be useful for teams and event staff to recognize robot states. Please note that, per the *Bulletin 855PB* document included with the part and found [here](#) on the Rockwell Automation website, there must be a jumper between terminals La and Lb in order for the light's default state to be steady on. With the jumper in place, any flashing is instead driven by the control system and can be used for diagnostic purposes.

Ethernet Extension Cables for the Driver Stations

Section 8 – The Robot, Rev K, has been updated to include the following change.

<R85> During competition MATCHES, the competition cable at the Alliance Station must connect directly to the competition port on the Driver Station. The competition Ethernet cable must connect directly to an Ethernet port on the Driver Station, or an intermediate Ethernet connector used for the sole purpose of stress/strain relief on the Driver Station's Ethernet ports. No other intermediate connectors, cables, or "pigtailed" are permitted. Only the Driver Station may connect to the competition cables – no direct connection of team-provided portable computers, PDAs, or alternate devices is permitted.

Please note that FIRST is not responsible for signal integrity when such a component is introduced into the Field Management System's control path. If, at a competition, there is an inadequate connection from the field to the Driver Station, teams may be asked to remove the intermediate device and connect the Driver Station directly to the field.

RS-545 Motor Clarification

The RS-545 motor provided in the Kit Of Parts (KOP) is labeled with the model number RS545PH-5125F. This motor, or those motors identical in marking and part number, is the only permitted RS-545 motor permitted in the 2009 FIRST Robotics Competition.

Updated Inspection Checklist

Revision E of the *Inspection Checklist* is now posted under Section 8 – The Robot at <http://www.usfirst.org/community/frc/content.aspx?id=452>.

Section 9 – The Tournament through Section 10 – The Kit of Parts

No changes.