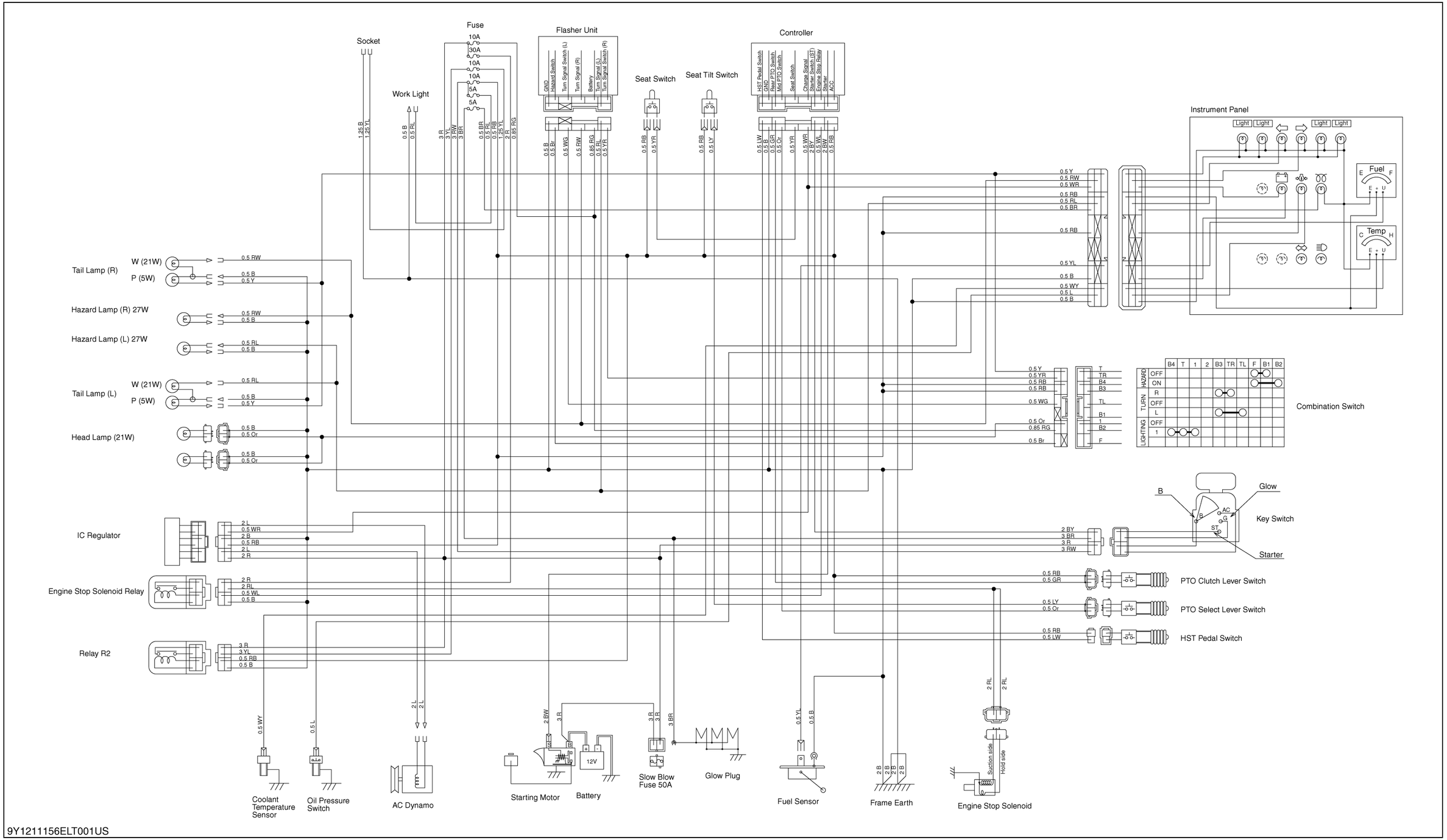1. WIRING DIAGRAM