EM50/100/150 Wiring Definition

1. Hall Plug (waterproof plug)	2. Throttle/High Brake/Speedometer	3. Ignition
5 wires, connect with motor hall plug	5wires, throttle wires connect with throttle, high brake connect 12v, speedometers support One-LIN or Hall	1 wire, connect with B+
red - hall positive 5v **balck - hall GND** **yellow - hall signal** **green - hall signal** **blue - hall signal** Hall Plug	**pink, black, green - throttle 0~5v** **purple - high brake 12v** **white - speedometer hall/ONE-LIN** Throttle High Brake Speedometer	**grey/purple - ignition** Ignition
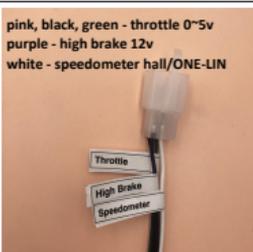
4. Three Speed/Sport/Parking	5. One-Click Repair	6. Low Brake/Reverse
5 wires, connect with three speed switch, sport with button, parking connect with button	1 wire, connect with repair button	2 wires, reverse connect with reverse low brake connect with brake switch.
black/white - low speed **black - GND/middle speed** **green/white - high speed** **yellow/white - sport** **brown/white - parking** Middle Speed Sport Parking Low Speed High Speed	**brown - one click repair** One Click repair	**grey/white - reverse** **grey/black - low brake** Low Brake Reverse
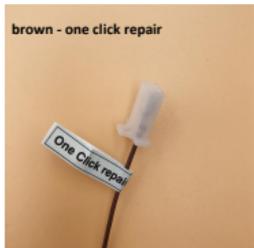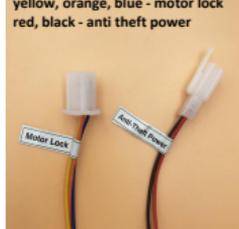
7. Anti-Theft	8. Program Port	9. Program USB Cable
2 wires + 3 wires, connect with anti-theft device	4 wires, connect with USB cable to PC	No CAN BUS
yellow, orange, blue - motor lock **red, black - anti theft power** Motor Lock Anti theft Power	**orange, blue, pink, black - program** Program Port	**connect with 8 from controller** **connect with PC**