

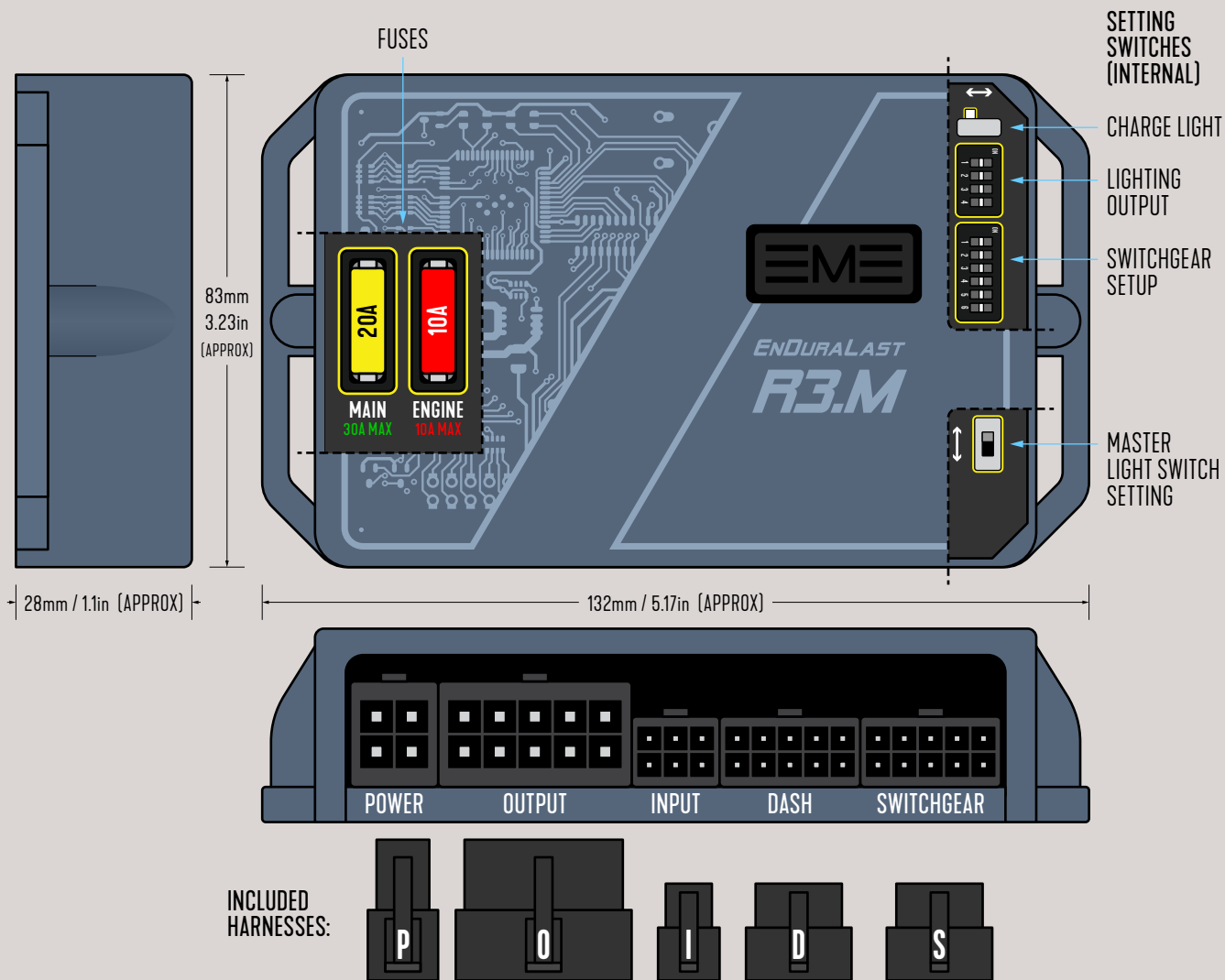
R3.M

Control Hub

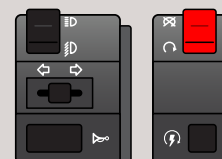
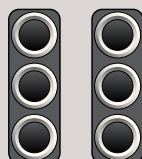
MULTIPLEX SWITCH

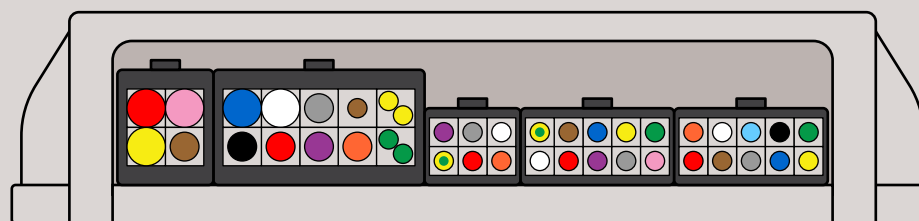
FEATURES

- Complete electrical control hub
- Complete color-coded wiring harness
- Atmel 8-bit AVR® RISC-based microcontroller
- Trench type MOSFET powered
- Solid State design for water-proof and shock-proof operation
- 4 layer PCB design utilizing SMD components
- PTC smart fuse protection with auto reset
- Build in master system fuse
- Enhanced engine power protection with quick blow fuse
- No start ignition coil time-out power off
- Engine run monitoring
- AC/DC voltage runaway engine shutdown protection
- Charging system monitoring with fault audible notification
- Selectable charge-light output functions
- On board high power starter relay
- Starter motor safety lock out with anti-grind
- Starter motor max crank time out
- Optimized for LED lighting
- Brake light flash pre-warning
- Automatic brake light HOLD
- Single wire PWM taillight output
- Onboard digital flasher
- Sequential/self flashing signal light capable
- Signal light time out auto off
- "PARK" position hazard light feature
- DRL/Halo/Front Marker light output with TYPE 2 switchback
- Master light control
- Soft start headlight ON
- Brake fluid sensor/Auxiliary sensor input/output
- Enhanced smart dash gauge outputs
- 1 year replacement warranty & tech service



Designed for
these types
of switchgear





POWER OUTPUT INPUT DASH SWITCH

POWER

KO+	16AWG, 1.0m	(+)	KEY SWITCH POWER COMMON
B+	16AWG, 1.0m	(+)	BATTERY POWER IN
KI+	16AWG, 1.0m	(+)	KEY SWITCH POWER IN
P+	18AWG, 1.0m	(+)	HAZARD LIGHT SWITCH IN

OUTPUT

HI	16AWG, 1.0m	(+)	HEADLIGHT HIGH BEAM
GND	18AWG, 0.25m	(-)	CHASSIS GROUND
LO	16AWG, 1.0m	(+)	HEADLIGHT LOW BEAM
ENGINE	18AWG, 1.0m	(+)	ENGINE IGNITION POWER
HORN	18AWG, 1.0m	(+)	HORN
STARTER	18AWG, 1.0m	(+)	STARTER MOTOR
FRONT LIGHT	22AWG, 1.0m	(+)	DRL / HALO / FRONT MARKER
TAILLIGHT	18AWG, 1.0m	(+)	TAILLIGHT
LEFT TURN	(2) 22AWG, 1.0m	(+)	LEFT TURN SIGNAL LIGHTS (FRONT & REAR)
RIGHT TURN	(2) 22AWG, 1.0m	(+)	RIGHT TURN SIGNAL LIGHTS (FRONT & REAR)

INPUT

OIL	22AWG, 1.0m	(-)	OIL SWITCH
RUN SENSE	22AWG, 1.0m	(~)	IGNITION COIL TRIGGER
NEUTRAL	22AWG, 1.0m	(-)	NEUTRAL SWITCH
AUX	22AWG, 1.0m	(~)	AUX SENSOR / SWITCH / INPUT
CHARGE	22AWG, 1.0m	(-)	DIODE BOARD CHARGING WIRE
REAR BRAKE	22AWG, 1.0m	(-)	REAR BRAKE SWITCH

HANDLEBAR SWITCH

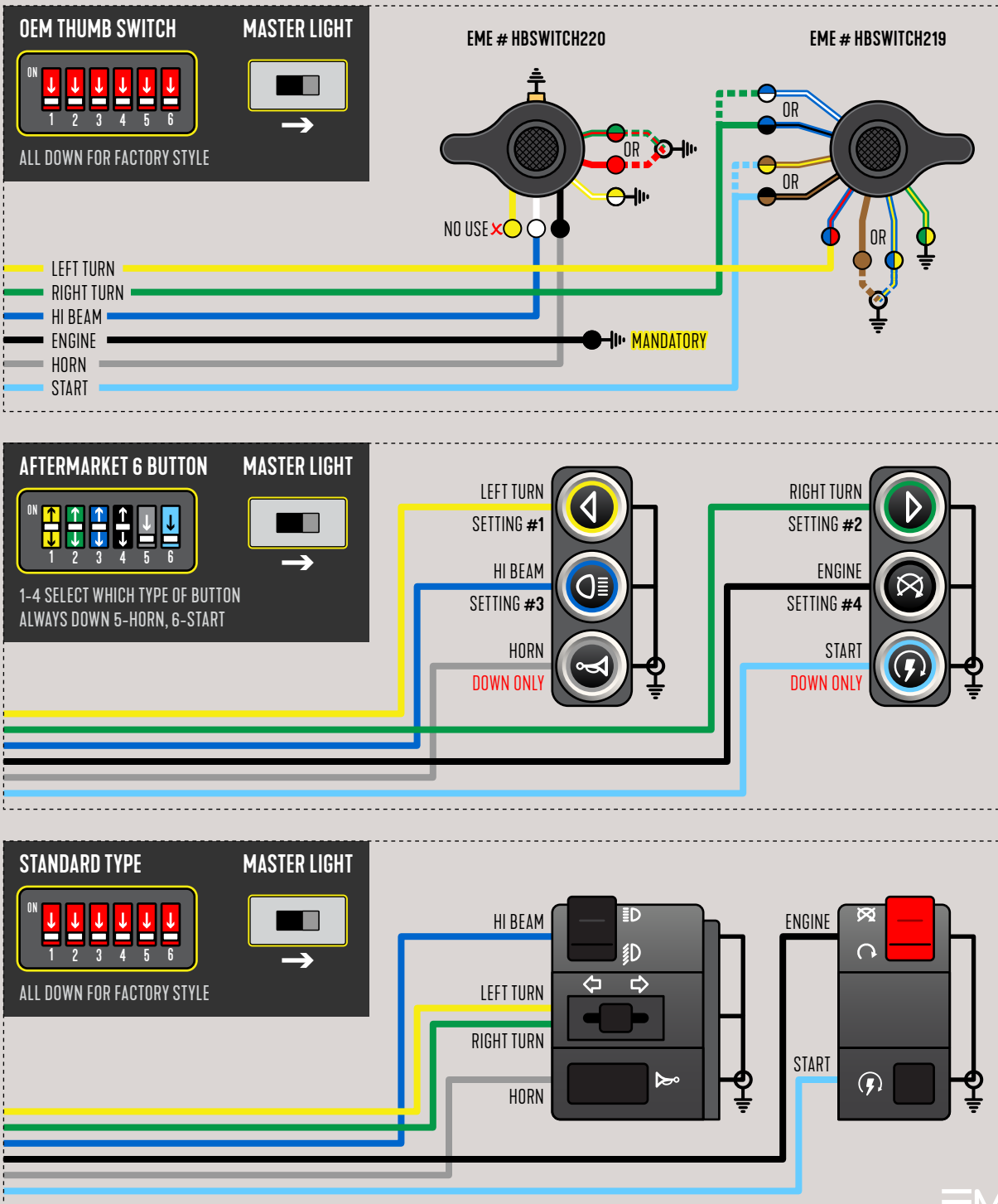
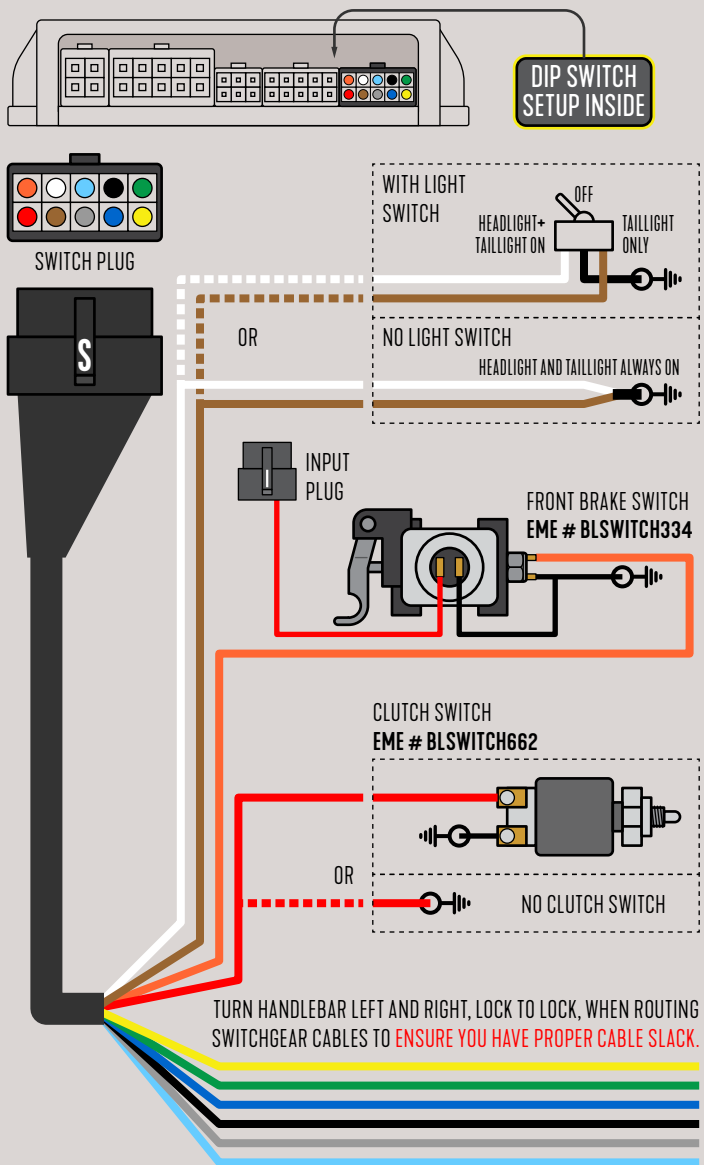
LEFT TURN	22AWG, 1.0m	(-)	LEFT TURN SWITCH
RIGHT TURN	22AWG, 1.0m	(-)	RIGHT TURN SWITCH
HI	22AWG, 1.0m	(-)	HIGH BEAM SWITCH
ENGINE	22AWG, 1.0m	(-)	ENGINE POWER SWITCH
HORN	22AWG, 1.0m	(-)	HORN SWITCH
START	22AWG, 1.0m	(-)	START SWITCH
TAILLIGHT	22AWG, 1.0m	(-)	TAILLIGHT SWITCH
HEADLIGHT	22AWG, 1.0m	(-)	HEADLIGHT SWITCH
CLUTCH	22AWG, 1.0m	(-)	CLUTCH SWITCH
FRONT BRAKE	22AWG, 1.0m	(-)	FRONT BRAKE SWITCH

DASH

K+	22AWG, 1.0m	(+)	GAUGE POWER
RIGHT TURN	22AWG, 1.0m	(+)	RIGHT TURN INDICATOR
NEUTRAL	22AWG, 1.0m	(-)	NEUTRAL INDICATOR
LEFT TURN	22AWG, 1.0m	(+)	LEFT TURN INDICATOR
OIL	22AWG, 1.0m	(-)	OIL INDICATOR
HI	22AWG, 1.0m	(+)	HIGH BEAM INDICATOR
AUX	22AWG, 1.0m	(~)	AUX OUTPUT
BACKLIGHT	22AWG, 1.0m	(+)	BACKLIGHT POWER
CHARGELIGHT	22AWG, 1.0m	(-)	CHARGE LIGHT
TACH	22AWG, 1.0m	(~)	TACH PULSE

R3.M Switchgear Harness

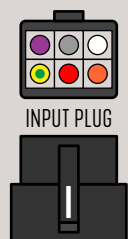
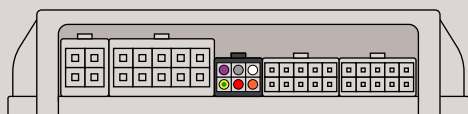
For SELF-SUPPLIED SWITCHGEAR



R3.M

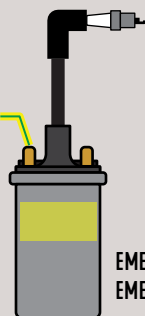
Input Harness

RUN SENSE / NEUTRAL / OIL / R-BRAKE

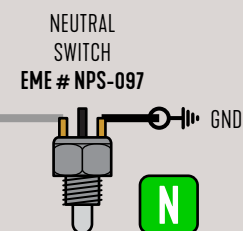


INPUT PLUG

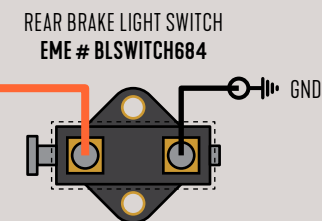
SPARK COIL
RUN SENSE



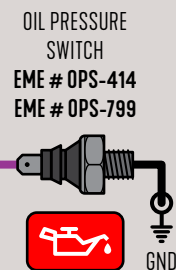
EME # EDL-COIL6VX2
EME # COIL025



NEUTRAL
SWITCH
EME # NPS-097



REAR BRAKE LIGHT SWITCH
EME # BLSWITCH684



OIL PRESSURE
SWITCH
EME # OPS-414
EME # OPS-799

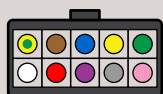
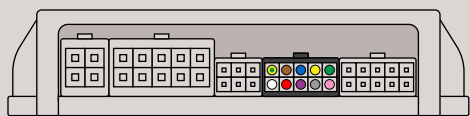
DIODE BOARD
CHARGING WIRE

Output Harness:
POWER / STARTING / CHARGING
PAGE

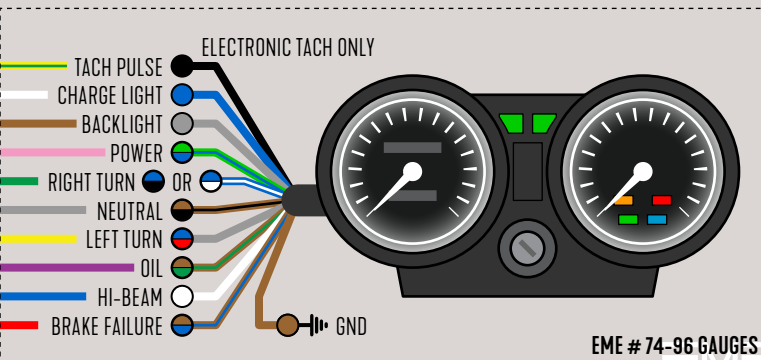
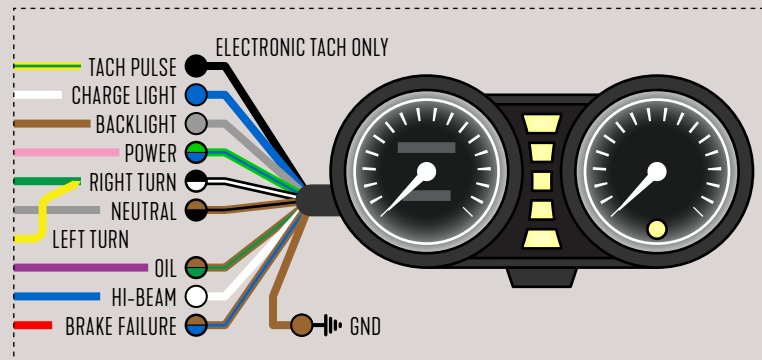
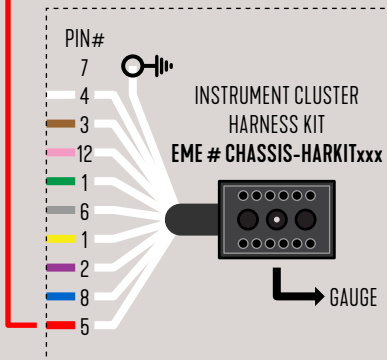
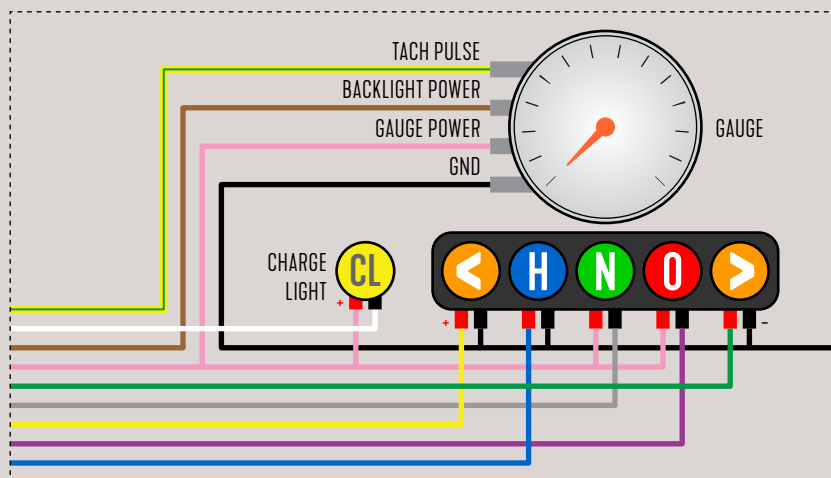
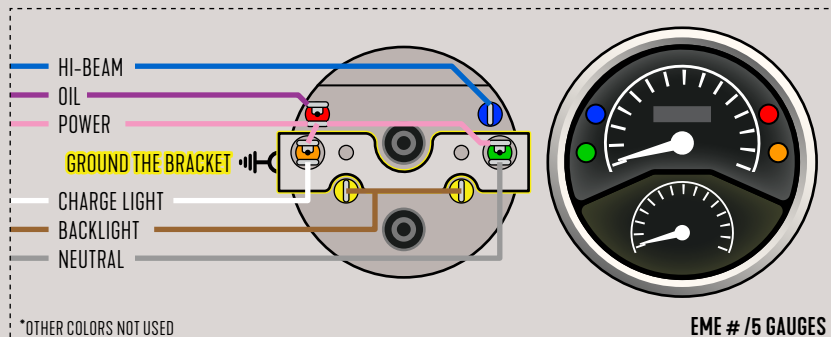
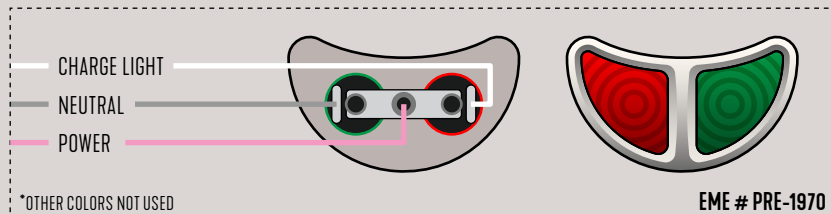
AUX SENSOR / SWITCH / INPUT

CHECK SWITCHES FOR PROPER FUNCTIONALITY
CLEAN/REBUILD/REPLACE WHEN NECESSARY

Dash Harness



DASH PLUG

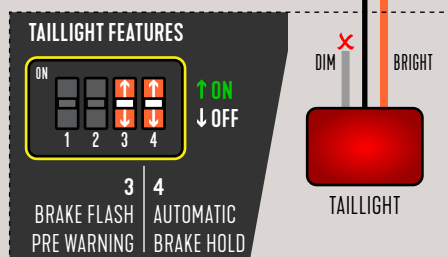
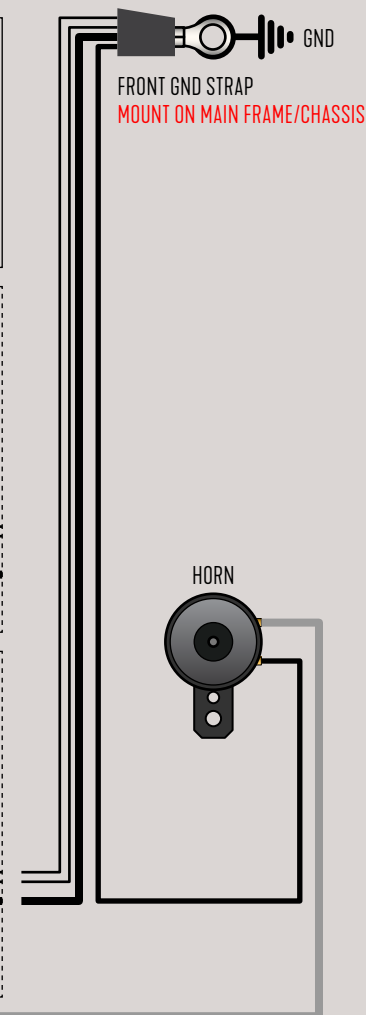
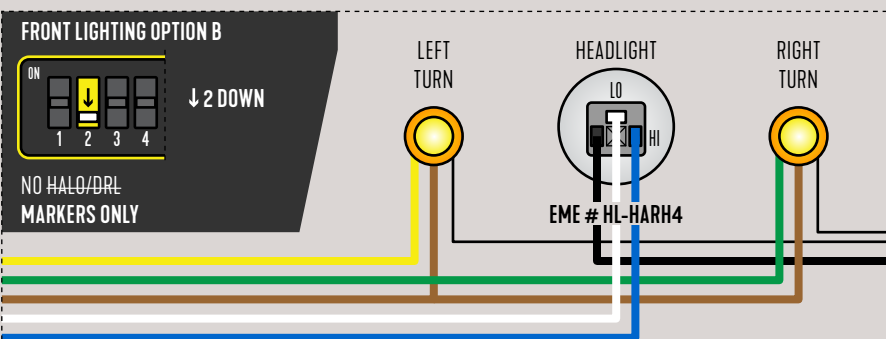
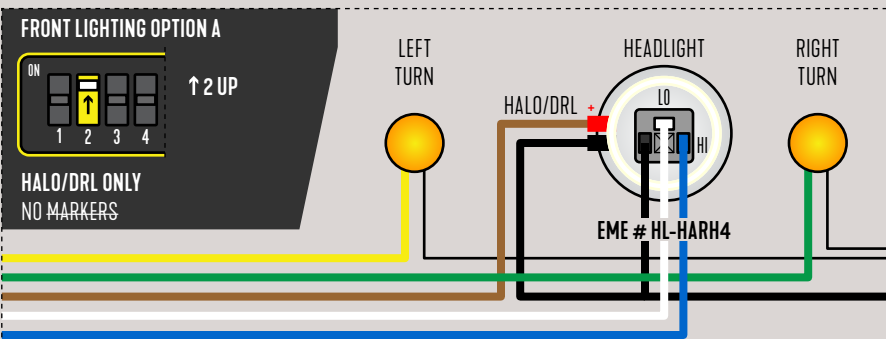
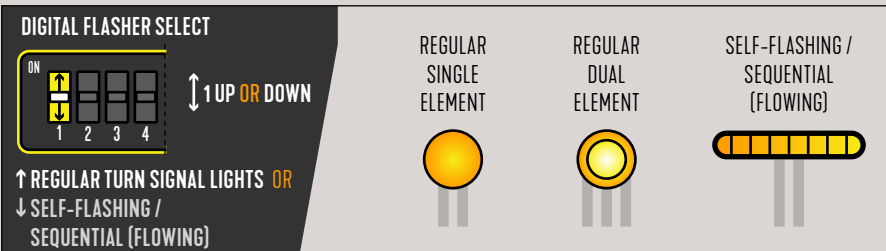
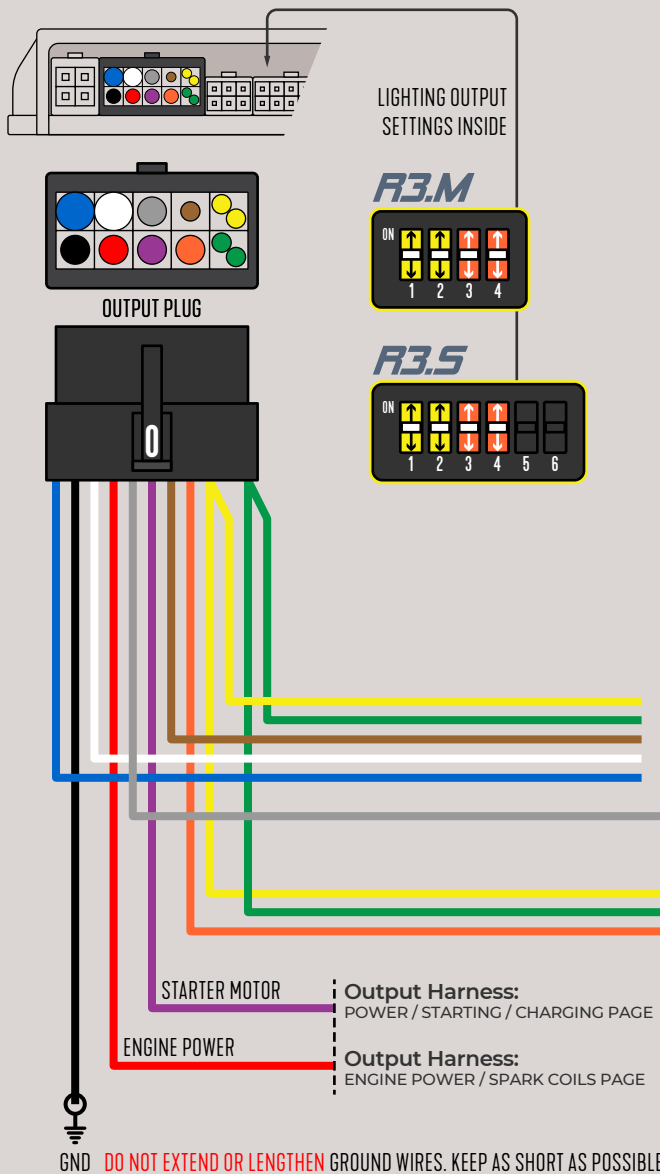


EME # 74-96 GAUGES

R3

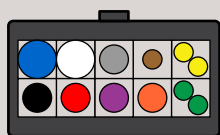
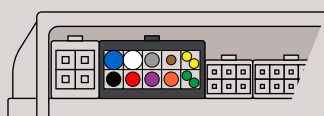
Output Harness

LIGHTING / HORN

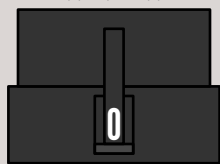


Output Harness

ENGINE POWER / SPARK COILS



OUTPUT PLUG

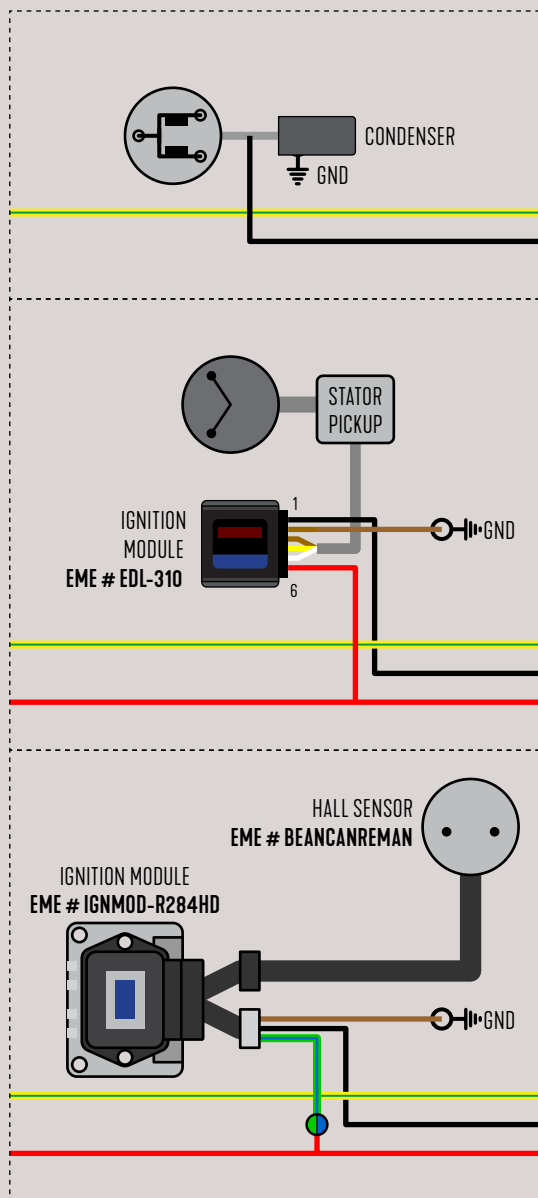


Output Harness:
LIGHTING / HORN
PAGE

STARTER
MOTOR

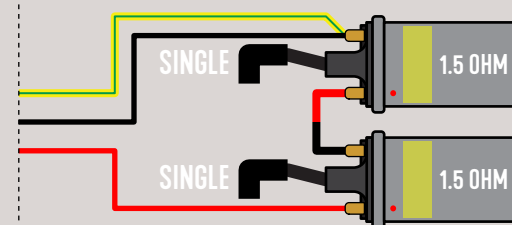
Output Harness:
POWER / STARTING / CHARGING
PAGE

INPUT
PLUG

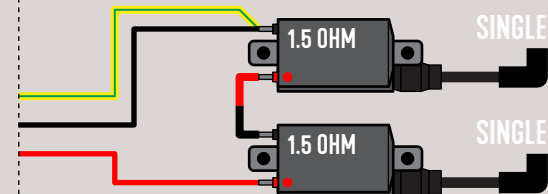


EME # COILS

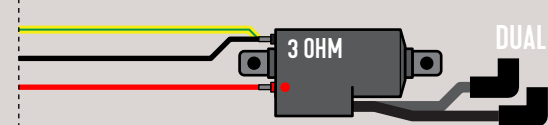
2-WIRE SINGLE SPARK COIL (x2)



2-WIRE SINGLE SPARK COIL (x2)

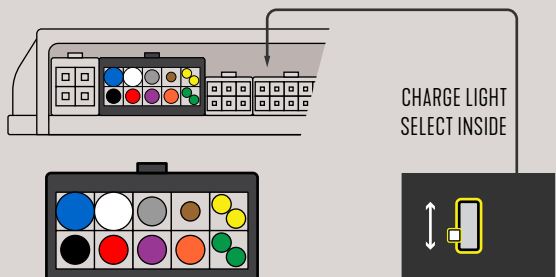


2-WIRE DUAL SPARK COIL (x1)

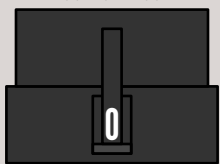


Output Harness

POWER / STARTING / CHARGING

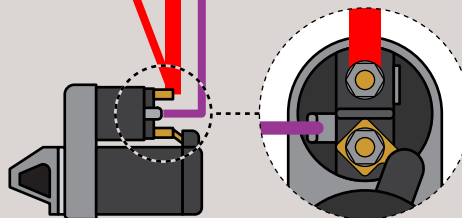


OUTPUT PLUG

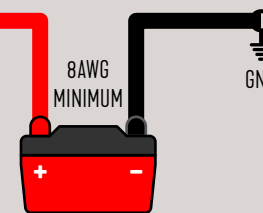
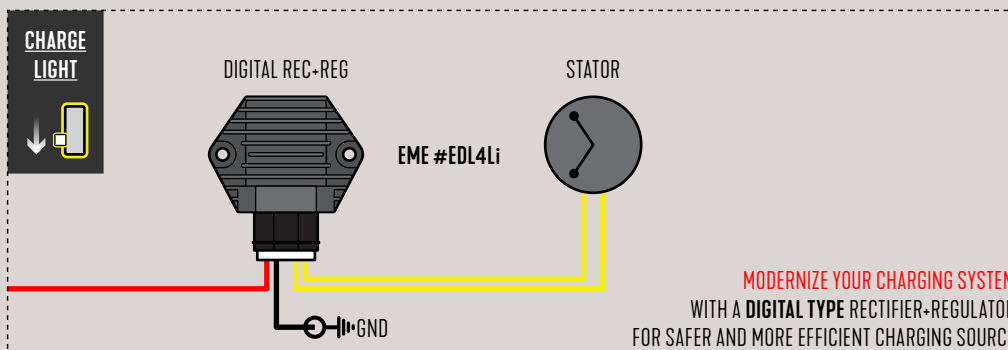
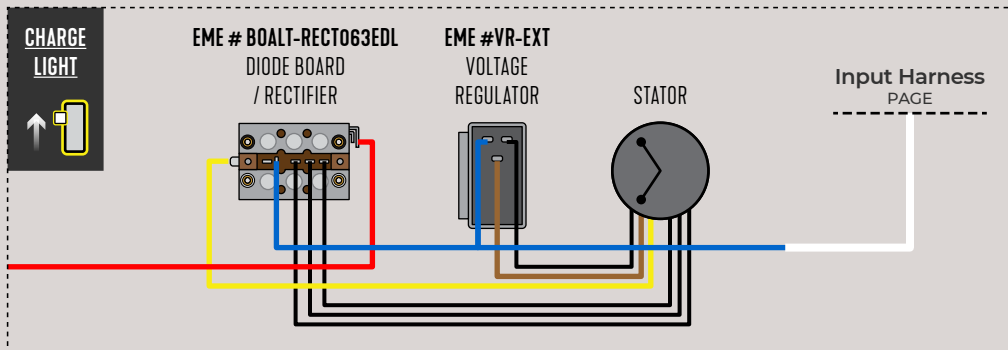


Output Harness
LIGHTING / HORN
PAGE

Output Harness
ENGINE POWER / SPARK COILS
PAGE



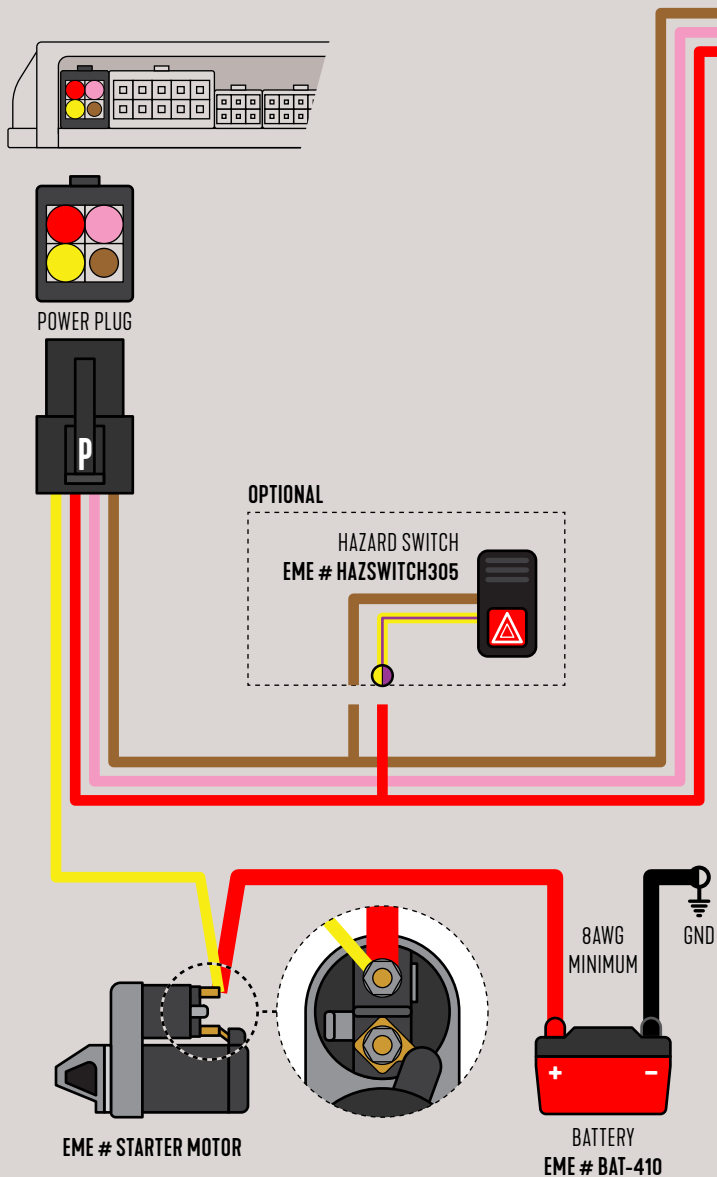
EME # STARTER MOTOR



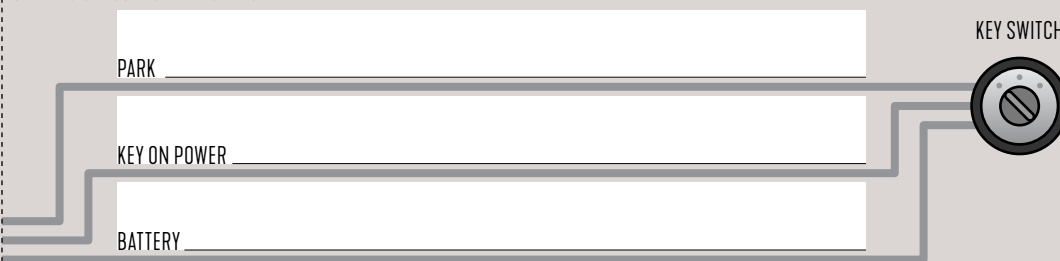
BATTERY
EME # BAT-410

Power Harness

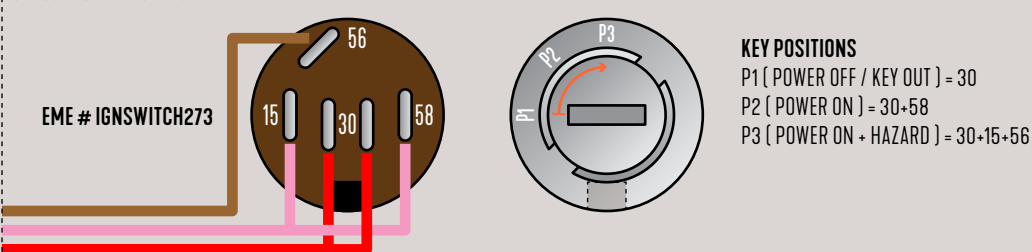
KEY SWITCH



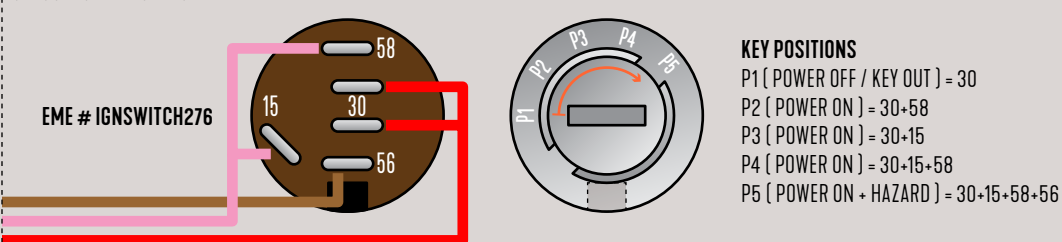
GENERIC 3-POSITION KEY SWITCH



3-POSITION KEY SWITCH



5-POSITION KEY SWITCH



KEY SWITCH HEADLIGHT PLATE

