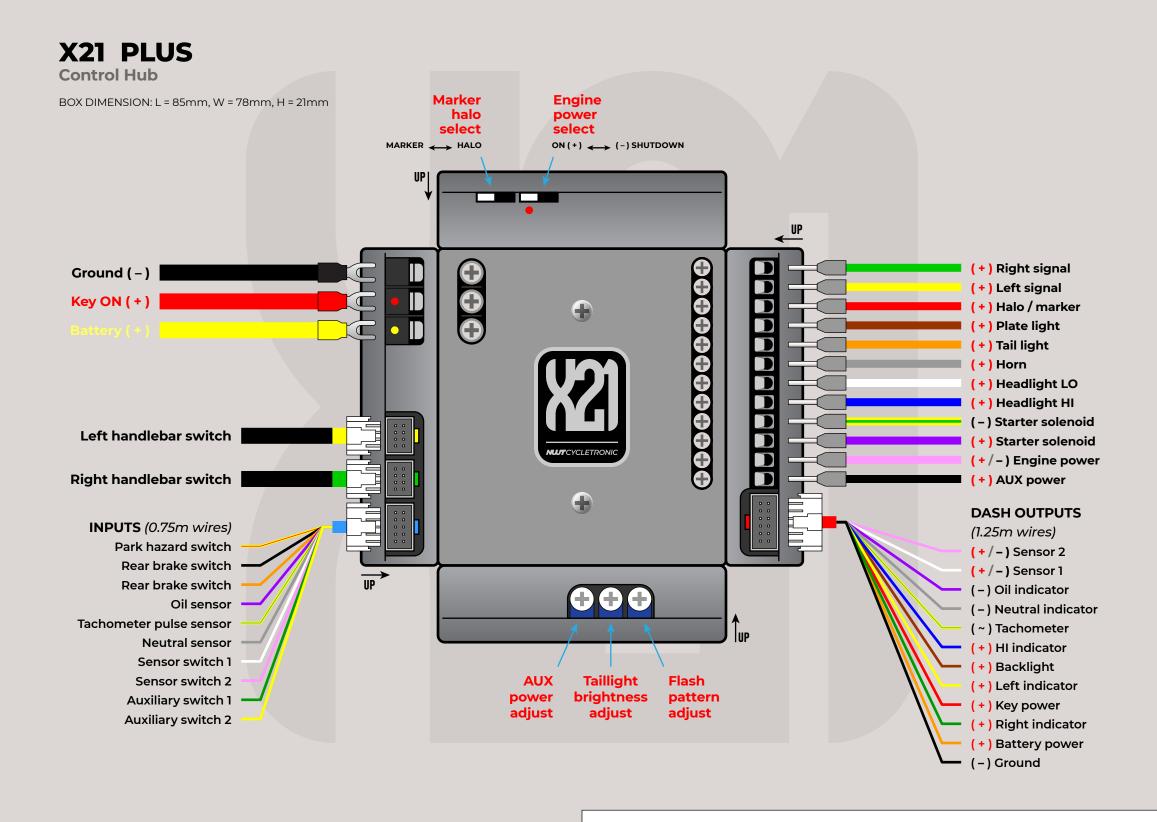
X21 PLUS



Read installation thoroughly before starting.

[]	Section A	Component checklist
[]	Section B	Component mounting
[]	Section C	Power/charging/starting
[]	Section D	Engine power/spark coil
[]	Section E1	Lights/horn
[]	Section E2	Markers/halo lights/daytime running lights (DRL)
[]	Section F	Switches/dash lights
[]	Section G	Auxiliary output
[]	Section H	System check
[]	Section I	Finalizing



It comes in handy if or when you need help.

Share your project with us and inspire others.

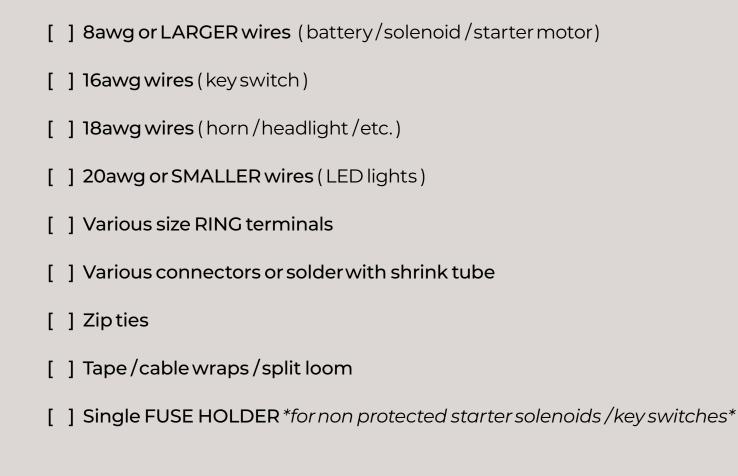
Most importantly, **HAVE FUN!**

It's a hobby, remember?

We're here for you all the way.

[] Dottom / MANDATODV

L] Battery (MANDATORY)
[] Rectifier/regulator (MANDATORY)
[] Starter solenoid/relay*electric start bikes only*
[] Spark control module (CDI/TCI/points breaker)
[] Spark plug coil(s)
[] Keyswitch
[] Gauge(s)
[] Dash indicators
[] Headlight
[] Signal lights
[] Horn
[] Taillight
[] Plate light *optional*
[] Brake switch (front / rear)
[] Neutral sensor switch
[] Additional sensors/switches (oil/clutch)





Need parts? Parts suggestions?

Have a chat with one of our affiliates:



Website: www.brickhousebuilds.com

Instagram: obrickhousebuilds

E-mail: sales-americas@nwtcycletronic.com



www.kiltedbushidobuilds.com

@kilted_bushido_builds

sales-europe@nwtcycletronic.com

NEED ASSISTANCE? Email make, model, year of bike to techservice@nwtcycletronic.com



↑UP

GOOD

Taillight

Plate light

DO NOTroute wires/cables at this time. **MOUNT ALL COMPONENTS** onto desired location. DO NOTenlarge or alter the X21 mounting holes. Use provided hardware. Rear brake switch Right handlebar Right switch signal light Right signal Key switch Rectifier/ light regulator **Battery X21** Gauge Dash X21 Headlight indicators Spark Spark Coil control Starter Left module Horn signal solenoid/ light relay Left signal Left light handlebar switch **First rule of electronics: HEAT KILLS!** Keep electronics away from heat sources when possible. **BEST NOT MOUNTING RECOMMENDED**

> **NEED ASSISTANCE?** Email make, model, year of bike to techservice@nwtcycletronic.com

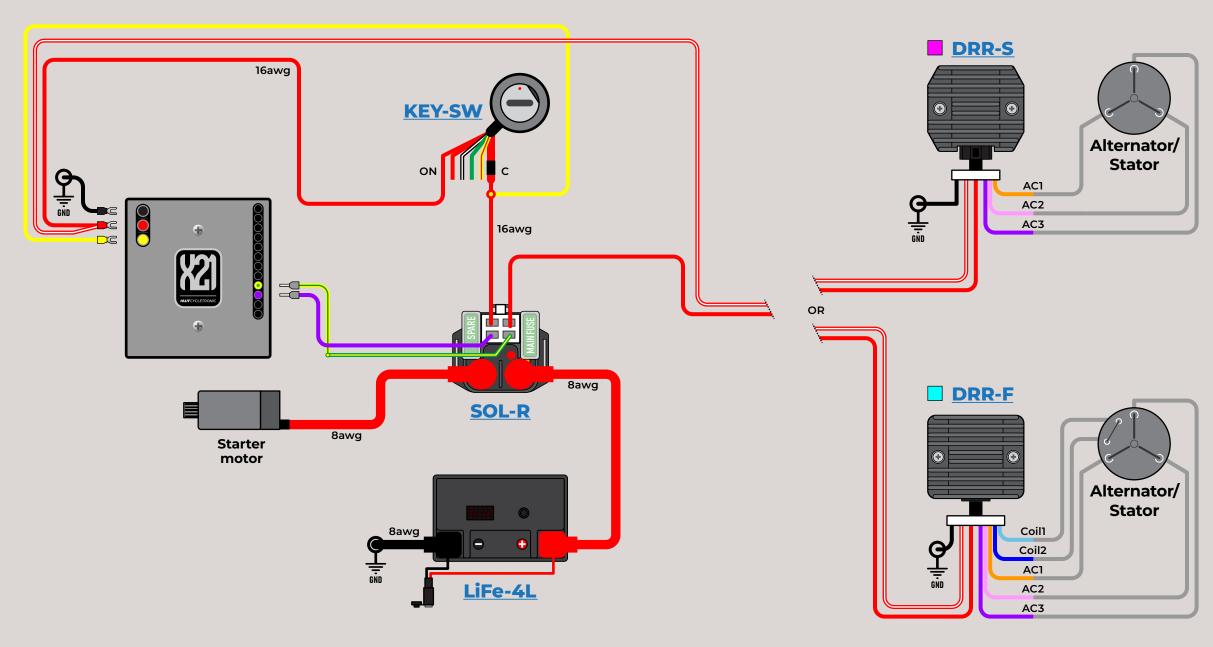
SECTION

REMOVE FUSE from fuse holder before starting.

DO NOT install fuse until instructed.

Use recommended wire gauge size.

DO NOTovertorque/tighten screw terminals.



Mywire colors

AC3

Mytyp	e A B
Alterna	ator/stator
Coil1	
Coil2	
AC1	
۸۲۵	

Modernize your charging system

with a digital type rectifier/regulator for a safer and more efficient charging source.

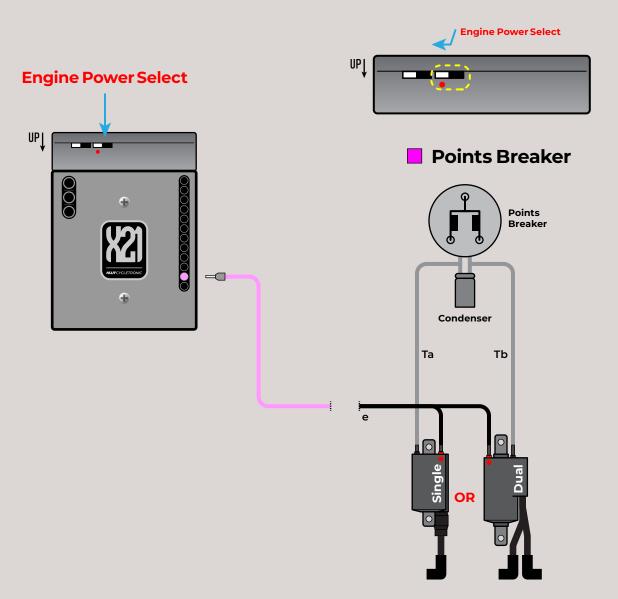
Need assistance with "My wire colors"?
Email make, model, year of bike to
techservice@nwtcycletronic.com

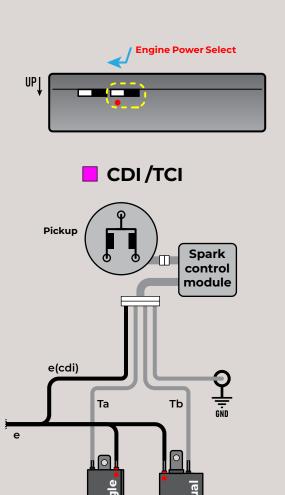


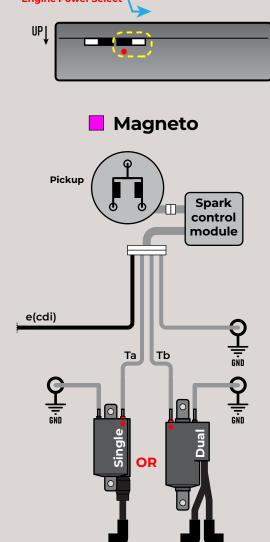
DO NOT install fuse until instructed.

DO NOTovertorque/tighten screw terminals.

Pay attention to "Engine Power Select" switch position.







Mywire colors

Mytype ____

Points breaker/Pickup Original Spark control module e(cdi)

Original coil(s)

Save some headache.

Inspect, clean and secure spark plug CAP. Spark plug cables hard? Inspect for breaks. DO NOT ASSUME, check!

> Need assistance with "My wire colors"? Email make, model, year of bike to techservice@nwtcycletronic.com

ENGINE POWER/SPARK COIL



DO NOTinstall fuse until instructed.

DO NOTovertorque/tighten screw terminals.



Your X21 does not need additional parts to run LED lights.

LED lights produce low heat to no heat and are energy efficient.

Aftermarket parts

Aftermarket or aftermarket replacement parts refer to vendor for wire colors.

OR include wiring diagrams/pictures in your email for assistance.

Mywire colors

Front signal lights

turn ______

Rear signal lights

turn ____

GND _____

marker

brake _____

Plate light

Taillight

p(+) _____ GND ____

Horn

h(+) _____

GND _____

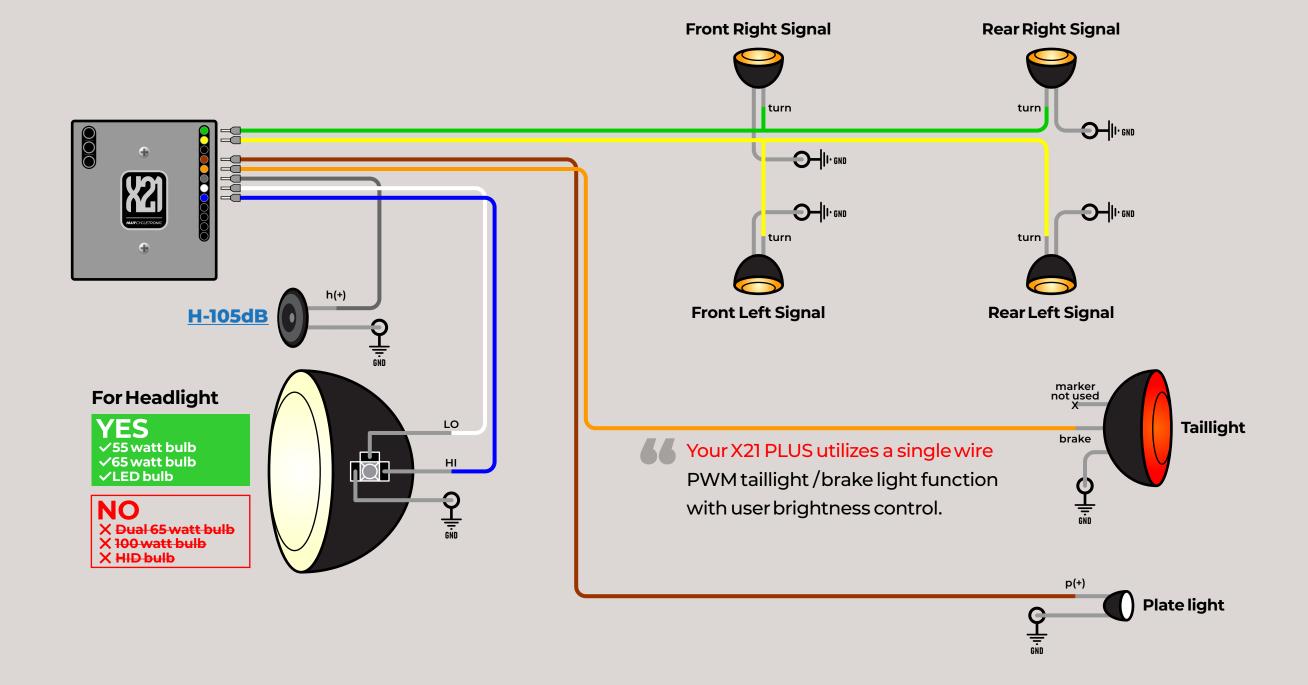
Headlight

GND _____

LO _____

н _____

GND _____



Need assistance with "My wire colors"?
Email make, model, year of bike to
techservice@nwtcycletronic.com

LIGHTS/HORN

Aftermarket parts

your email for assistance.

Mywire colors Front signal lights

marker _

Headlight

GND _

GND _ Plate light

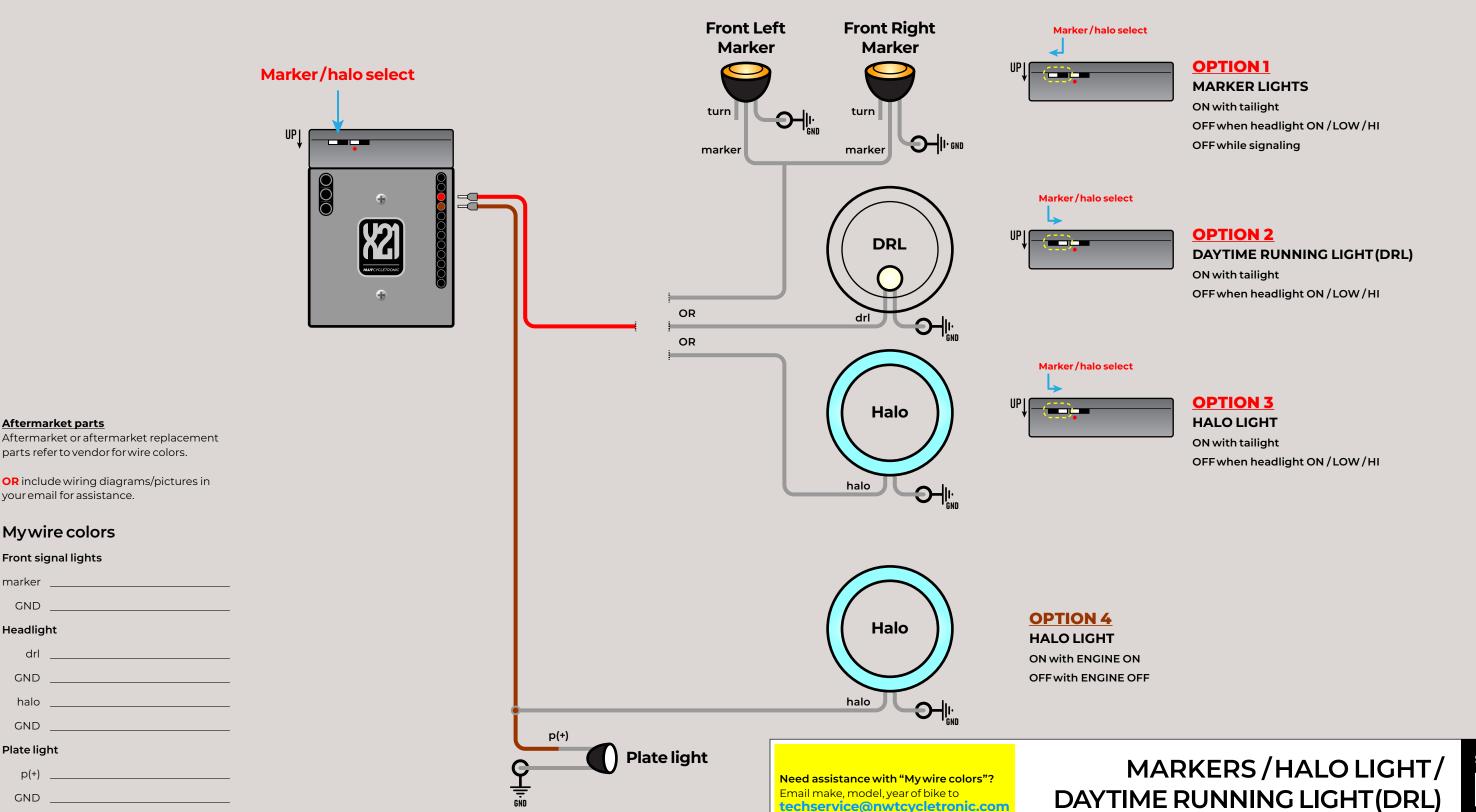
GND _

DO NOTinstall fuse until instructed.

DO NOTovertorque/tighten screw terminals.

Your X21 does not need additional parts to run LED lights.

LED lights produce low heat to no heat and are energy efficient.

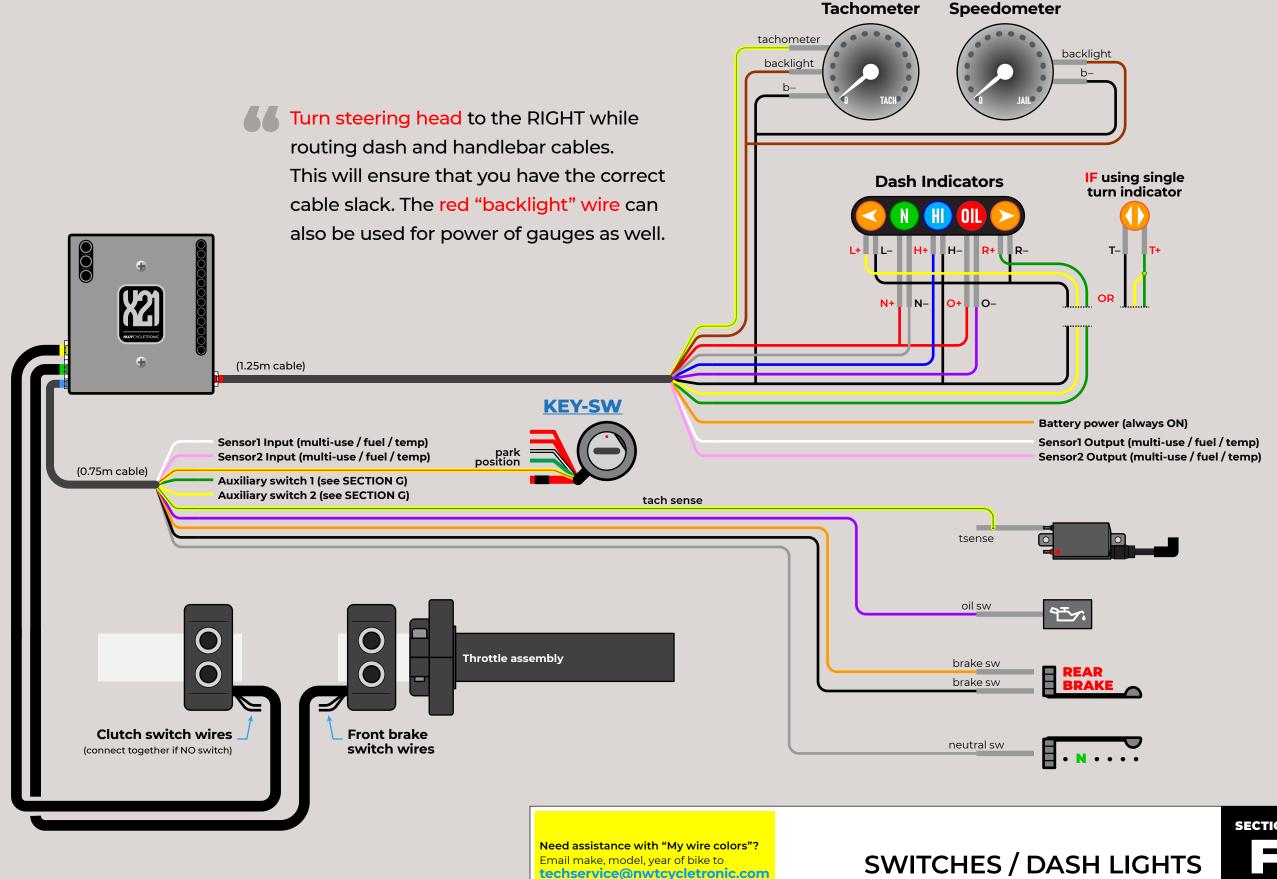


DO NOT install fuse until instructed. Pay attention to cable slack for steering head movement.

Aftermarket parts Aftermarket or aftermarket replacement parts refer to vendor for wire colors. **OR** include wiring diagrams/pictures in your email for assistance. My wire colors Gauges tachometer _ backlight _ b(-) _ Left indicator **Neutral indicator** N(-) _ HI indicator H(+) _ H(-) _ Oil indicator O(+) O(-) _ Right indicator R(+) _ **Turn indicator** T(+) _ T(-) _ Tachometer pulse sensor tsense Oil switch oil sw _ Rear brake switch brake sw __ brake sw

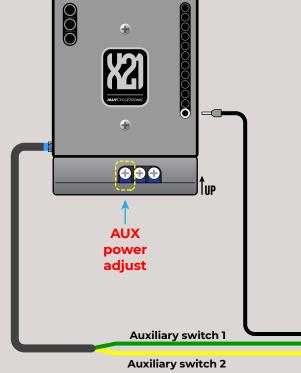
Neutral switch

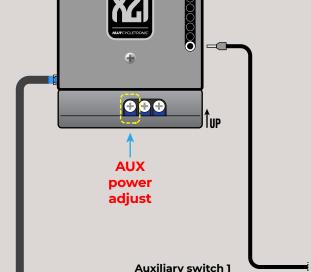
neutral sw .

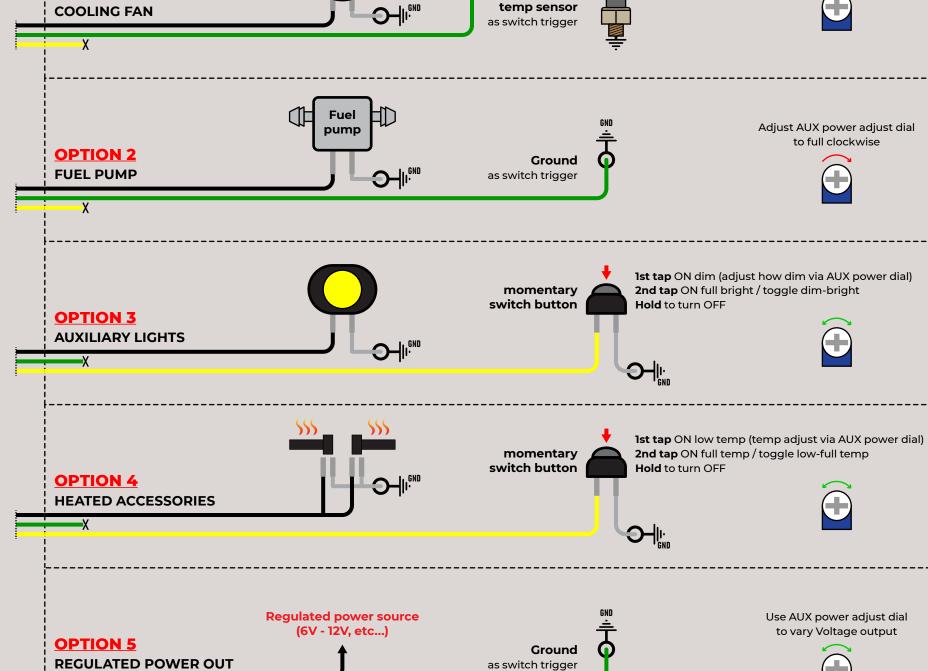


Use AUX power adjust dial to vary fan speed

USE ONE OPTION ONLY.







When GROUNDED, AUX OUTPUT is active

AUXILIARY SWITCH 1 FUNCTION

When NOT Grounded, AUX OUTPUT is OFF

AUXILIARY SWITCH 2 FUNCTION

Single TAP of MOMENTARY switch, AUX OUTPUT is set to dial setting.

Single TAP again, AUX OUTPUT is ON Full.

HOLD button for half a second or longer, turns AUX OUTPUT to OFF.

Each single TAP will alternate output from LOW to HIGH or HIGH to LOW.

OPTION X

MANY MORE...

OPTION 1

NEED ASSISTANCE? Email make, model, year of bike to techservice@nwtcycletronic.com

AUXILIARY OUTPUT



- 1. Do a visual once over on the wiring job.
- 2. Have all switches and key in the OFF position & gear in NEUTRAL position.
- 3. Install MAIN fuse.
- 4. Turn **KEY SWITCH** to **ON** position.
 - = X21 LED will blink 3 times and then ON solid
 - = signal lights will blink 2 times

This indicates the system is ready.

- = NEUTRAL and OIL indicator lights ON
- = taillight marker ON
- = front marker/DRL/Halo lights ON (if installed)
- = dash backlight ON

Slowly rotate **TAILLIGHT BRIGHTNESS ADJUST dial** either direction to desire taillight brightness level.

- 6. Check FRONT and REAR brake switch.
 - = brake light quickly flashes a few times then ON solid

** AUTO BRAKE LIGHT HOLD feature **

While engine is running and on idle and in neutral gear

- = Brake light ON
- 7. Tap HI/LO BEAM button 3 times
 - = front marker/DRL/Halo lights OFF (if installed)
 - = LO beam ON
 - = headlight LO "soft start" ON

(light will gradually come to full brightness)

Tap HI/LO BEAM button 3 times

- = LO beam OFF
- = front marker/DRL/Halo lights ON (if installed)

Tap HI/LO BEAM button 3 times

- = front marker/DRL/Halo lights OFF (if installed)
- = LO beam ON
- = headlight LO "soft start" ON

(light will gradually come to full brightness)

8. Tap HI/LO BEAM button 2 times

= HI beam ON and HI indicator ON, LO beam OFF

Tap HI/LO BEAM button 2 times

= HI beam OFF and HI indicator OFF, LO beam ON

** AUTOMATED PASSING LIGHT feature **

Tap HI/LO BEAM button 1 time

= LO beam OFF, HI beam flashing

Tap HI/LO BEAM button 1 time

= Flashing HI beam OFF

HI beam and PASSIGN LIGHT always available regardless of MASTER LIGHT switch position.

- 9. Push HORN button.
 - = horn ON while pushed

10. Tap LEFT TURN & RIGHT TURN buttons 1 time

= ALL signal lights ON and turn indicators ON Slowly rotate **FLASH PATTERN ADJUST dial** in either direction to set desired flash pattern.

** TURN INDICATOR LIGHTS are steady flashing and not affected by the different signal light flash pattern**

Tap LEFT TURN & RIGHT TURN buttons 1 time

= ALL signal lights OFF and turn indicators OFF Check LEFT TURN, check RIGHT TURN (1 tap ON, 1 tap OFF)

= signal lights ON and turn indicator ON to button pushed

** MARKER LIGHTS SWITCHBACK feature **

Marker lights will turn OFF while signal lights are blinking

** TURN SIGNAL LIGHTS AUTO TIME OUT feature **

Signal lights will turn off automatically after 3.5minutes if NOT cancelled manually

11. Tap ENGINE button 1 time

= engine ON

While NEUTRAL indicator ON or CLUTCH pulled

(if clutch switch is installed), hold **START** button

= engine CRANKING and headlight OFF during

If engine not ready to run, install spark plug to Spark Coil, then spark plug body to ground, check for spark.

While engine is ON, tap ENGINE button 1 time or hold ENGINE button

= engine OFF

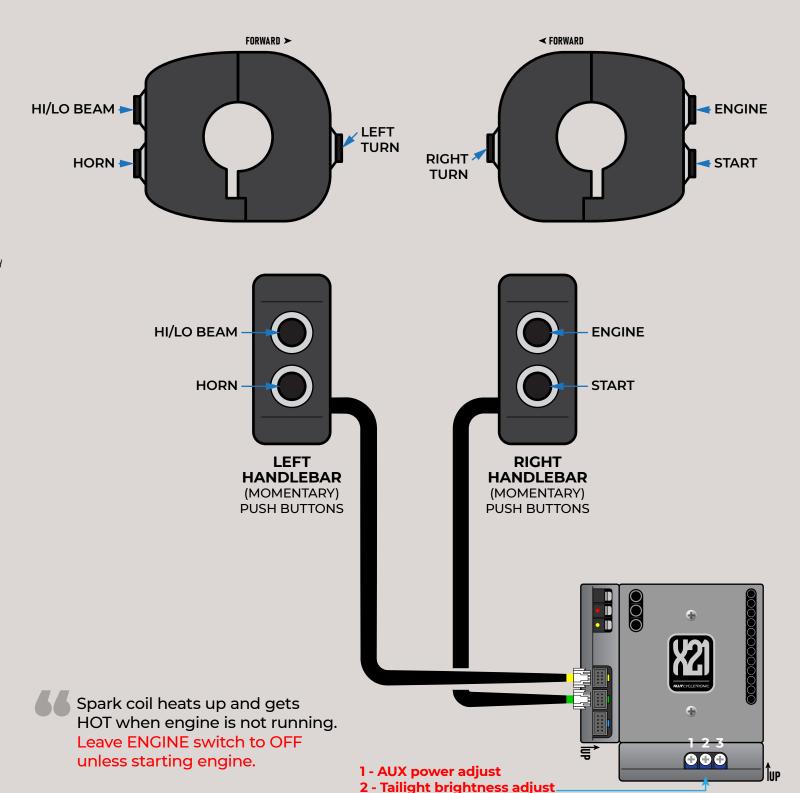
START button ONLY available if ENGINE switch is ON and gear in NEUTRAL or CLUTCH pulled.

12. Smart Dash Indicators

- TURN INDICATORS flash steady regardless of turn signal flash pattern selection
- NEUTRAL INDICATOR will flash steady if engine is running and in idle speed and in NEUTRAL
- OIL INDICATOR will flash rapid if engine is running and oil switch is trigged
- 13. **Park position** HAZARD lights

Turn KEY SWITCH to Park position

- = left & right signal lights ON (hazard)
- 14. Turn ALL switches OFF including KEY SWITCH



NEED ASSISTANCE?

Email make, model, year of bike to techservice@nwtcycletronic.com

SYSTEM CHECK (PLUS-P)

3 - Flash pattern adjust



Finalizing system installation

- 1. Remove MAIN Power fuse.
- 2. Organize wires and cables.
- 3. Cut and shorten excess wiring.
- 4. Bundle, wrap or tape to protect wiring.
- 5. Turn steering head to the RIGHT while routing dash and handlebar cables.

This will ensure that you have the correct cable slack.

- 6. Secure bundle with zip ties.
- 7. Secure and tighten all nuts, bolts, screws, duct tape, twist wires and whatever the fuck else you used to mount your shit down.
- 8. Thoroughly inspect all connection points.
- 9. REPEAT Section H.