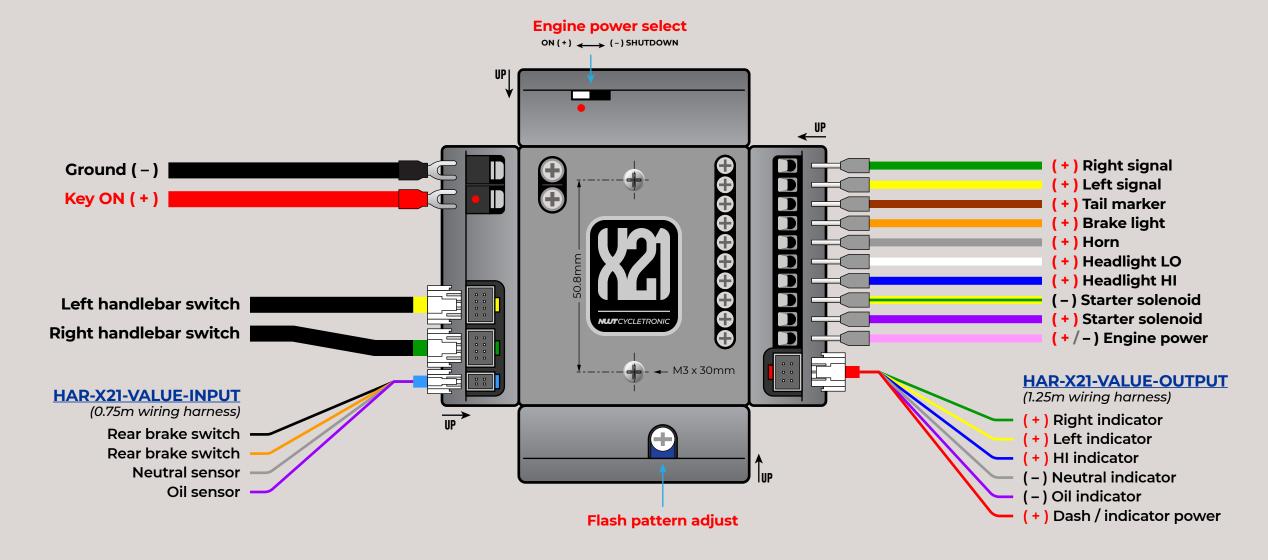
X21 VALUE

Control Hub

BOX DIMENSION: L = 70mm, W = 62mm, H = 21mm



INDEX

Read installation thoroughly before starting.

Component checklist [] Section A Section B Component mounting Power / charging / starting Section C Engine power / spark coil Section D Lights / horn Section E Switches / dash lights Section F System check Section G Finalizing Section H

Take pictures and document your progress.

It comes in handy if or when you need help.

Share your project with us and inspire others.

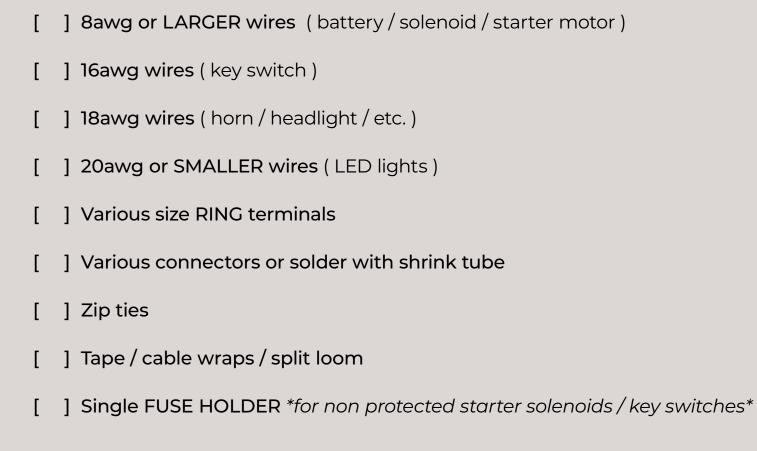
Most importantly, **HAVE FUN!**

It's a hobby, remember?

We're here for you all the way.

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

1 Dotton / MANDATODY





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

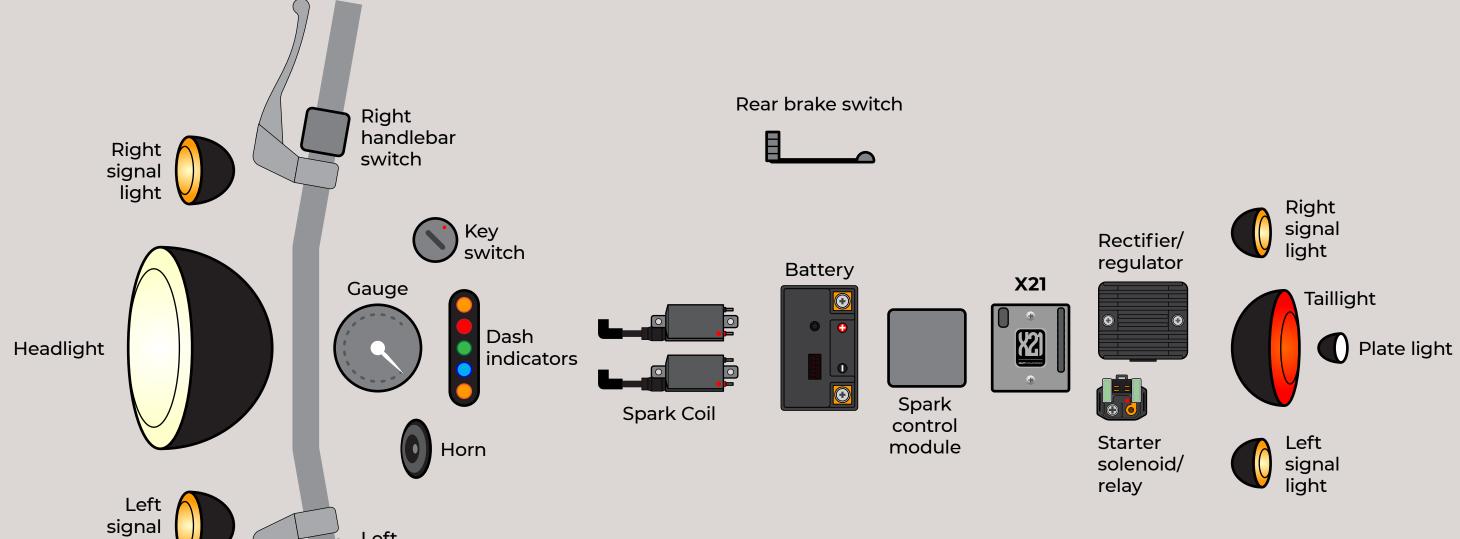


MOUNT ALL COMPONENTS onto desired location.

light

DO NOT route wires/cables at this time.

DO NOT enlarge or alter the X21 mounting holes. Use provided hardware.



66 First rule of electronics: **HEAT KILLS!**

Keep electronics away from heat sources when possible.



Left

switch

handlebar

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

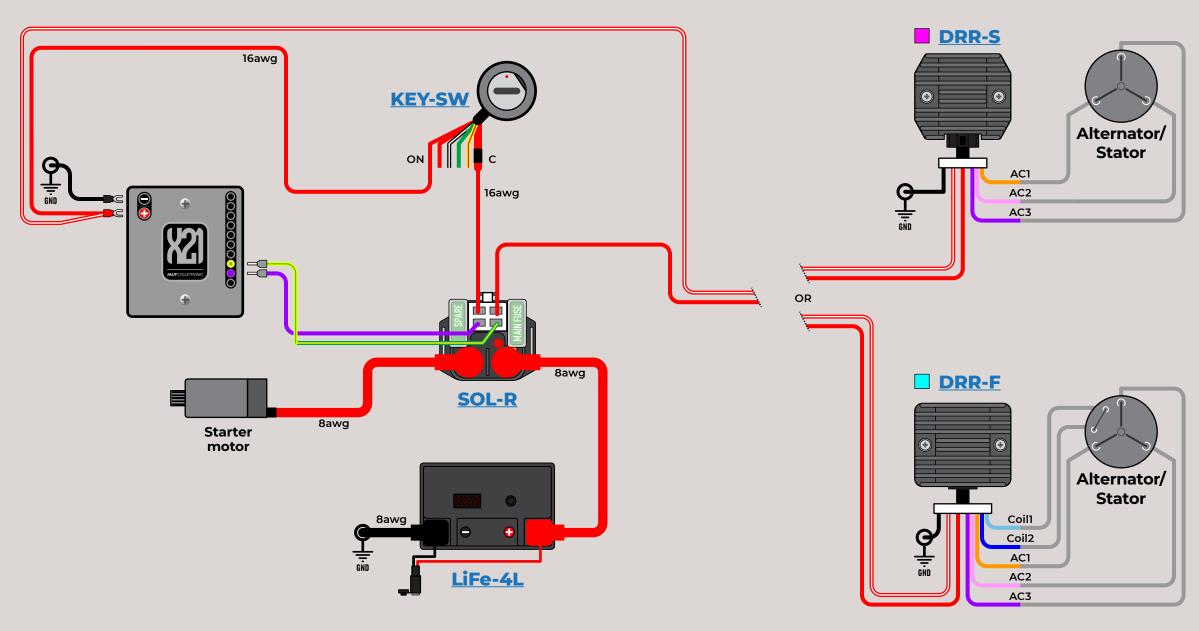


REMOVE FUSE from fuse holder before starting.

DO NOT install fuse until instructed.

Use recommended wire gauge size.

DO NOT over torque/tighten screw terminals.



My wire colors

AC3 _

Alternator/stator

Coil1

AC1

AC2

Modernize your charging system

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

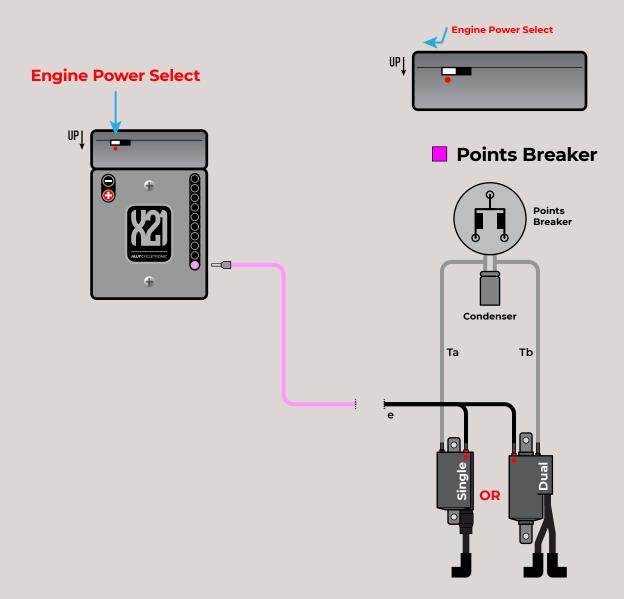
Need assistance with "My wire colors"?
Email make, model, year of bike to
techservice@nwtcycletronic.com

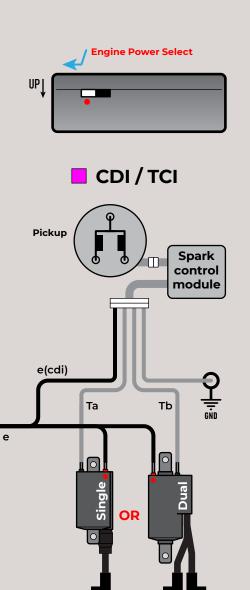


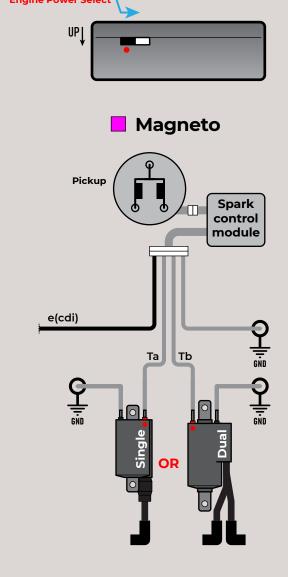
DO NOT install fuse until instructed.

DO NOT over torque/tighten screw terminals.

Pay attention to "Engine Power Select" switch position.







Ta _____Tb ____

My wire colors

Points breaker / Pickup

My type ____

Original Spark control module

Tb _____

e(cdi) _____

Original coil(s)

Tb _____

ГЬ _____

Save some headache.

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

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



DO NOT install fuse until instructed.

DO NOT over torque/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.

My wire colors

Front signal lights

marker __ GND _

Rear signal lights

turn _ GND _

Taillight

marker brake

GND _

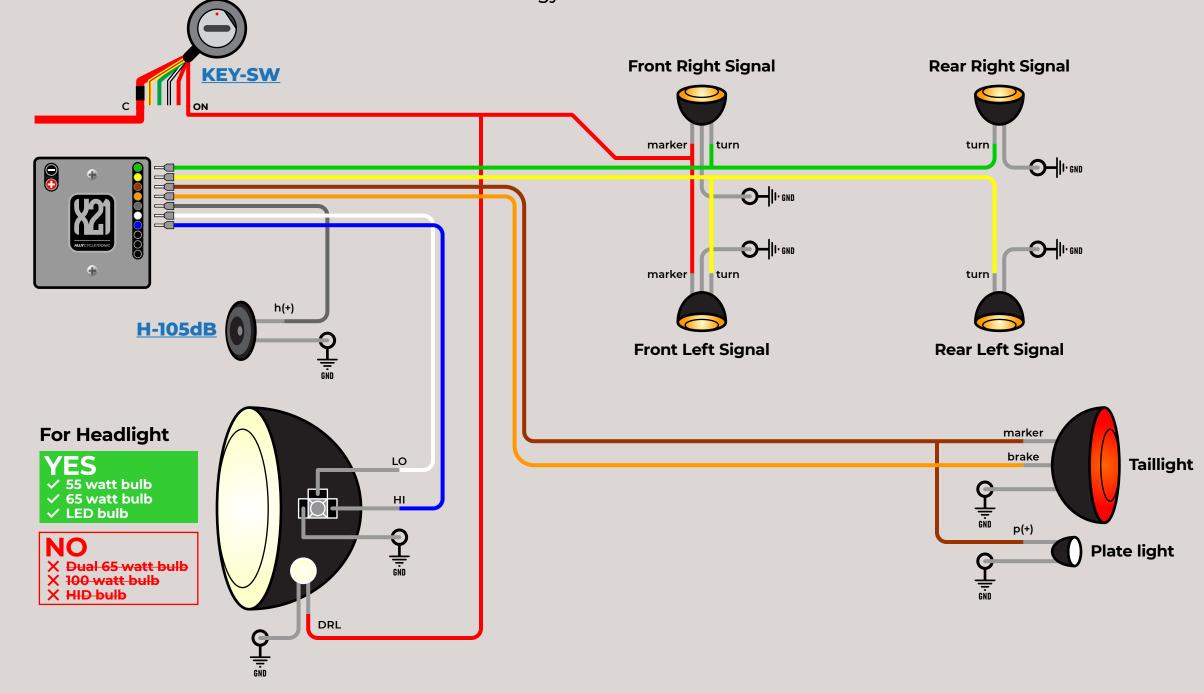
Plate light

Horn

GND _

Headlight

GND _



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

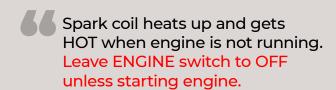
neutral sw Oil switch

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

Aftermarket parts Gauge Aftermarket or aftermarket replacement Turn steering head to the RIGHT while parts refer to vendor for wire colors. routing dash and handlebar cables. **OR** include wiring diagrams/pictures in your email for assistance. This will ensure that you have the correct **Dash Indicators** My wire colors cable slack. The red "backlight" wire can Gauge also be used for power of gauges as well. backlight b(-) Left indicator L(+) (1.25m cable) **Neutral indicator** N(+) (0.75m cable) N(-) HI indicator H(+) H(-) Oil indicator O(+) brake sw brake sw O(-) **Right indicator** neutral sw R(-) Turn indicator Clutch switch wires _ Front brake T(+) switch wires (connect together if NO switch) T(-) Rear brake switch brake sw brake sw **Neutral** switch

oil sw

IF using single turn indicator



- 1. Do a visual once over on the wiring job.
- 2. Have ALL switches and Key in OFF position & gear in NEUTRAL position.
- 3. Install MAIN Power 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
- = front marker lights ON (if installed)
- = plate light ON (if installed)
- 5. Turn MASTER LIGHT switch to 1ST POSITION.
 - = taillight marker ON
- 6. Check FRONT and REAR brake switch.
 - = bright brake light ON
- 7. Turn MASTER LIGHT switch to 2ND POSITION.
 - = taillight marker ON
 - = headlight LO "soft start" ON (light will gradually come to full brightness)
- 8. Turn HI BEAM switch to ON.
 - = HI beam ON and HI indicator ON, LO beam OFF

Turn **HI BEAM** switch to **OFF.**

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

Push **PASSING LIGHT** switch.

= HI beam ON and HI indicator ON while push

HI beam always available regardless of MASTER LIGHT switch position.

- 9. Push HORN switch.
 - = horn ON while push
- 10. Push **ENGINE** switch to **ON.**

= engine ON

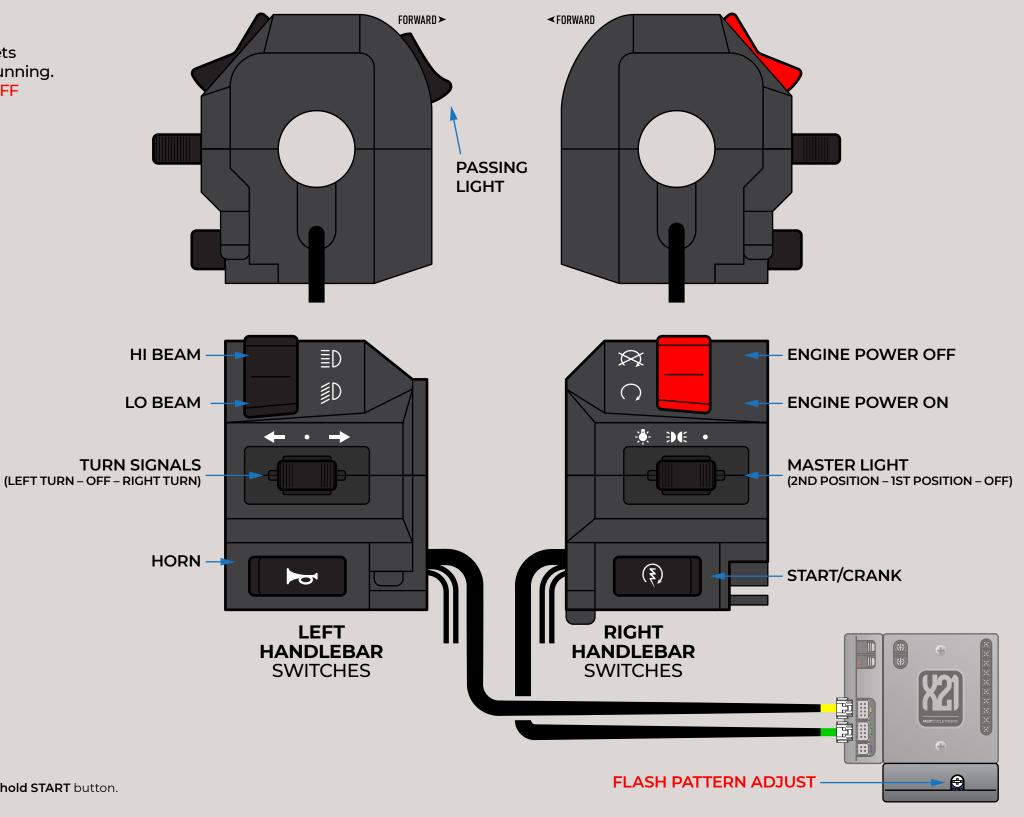
While NEUTRAL indicator ON or CLUTCH pulled (if clutch switch is installed), hold START button.

- = engine CRANKING and headlight OFF during
- = engine ON and headlight ON (if MASTER LIGHT switch is set to ON)

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

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

11. Turn ALL switches OFF



NEED ASSISTANCE?

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

SYSTEM CHECK (VALUE-S)



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 G.