

G-System Service Kit

Version 1.0 - March 2023

This Kit Services the following models:

G-System Range	
Year	Model
20-23	AMITI E+ 4
18-19	Amiti-E+ 2
17-18	Dirt E+ (ALL)
19-21	Embolden E+ (ALL)
17-20	Explore E+ 1/2/3
17-23	Explore E+ 4
20	Fastroad E+ (ALL)
19-21	Fathom E+ (ALL)
17-18	Full E+ (ALL)
19-20	Intrigue E+ Pro (ALL)
19-22	Lafree E+ (ALL)
17-19	Quick E+
20	Reign E+ (ALL)
17-19	Road E+
20	Road E+ 1 Pro
21-22	Roam E+
21-22	Rove E+
20	Stance E+ Pro (ALL)
19-21	Stance E+ 1
19-22	Stance E+ 2 (500wh Battery)
21	Talon E+ (ALL)
21	Tempt E+ (ALL)
20	Thrive E+ (ALL)
18-19	Toughroad E+
19-20	Trance E+ (ALL)
20-22	Transend E+
18-20	Vall-E+
20-22	Vida E+



Page 2: G-System Kit Contents

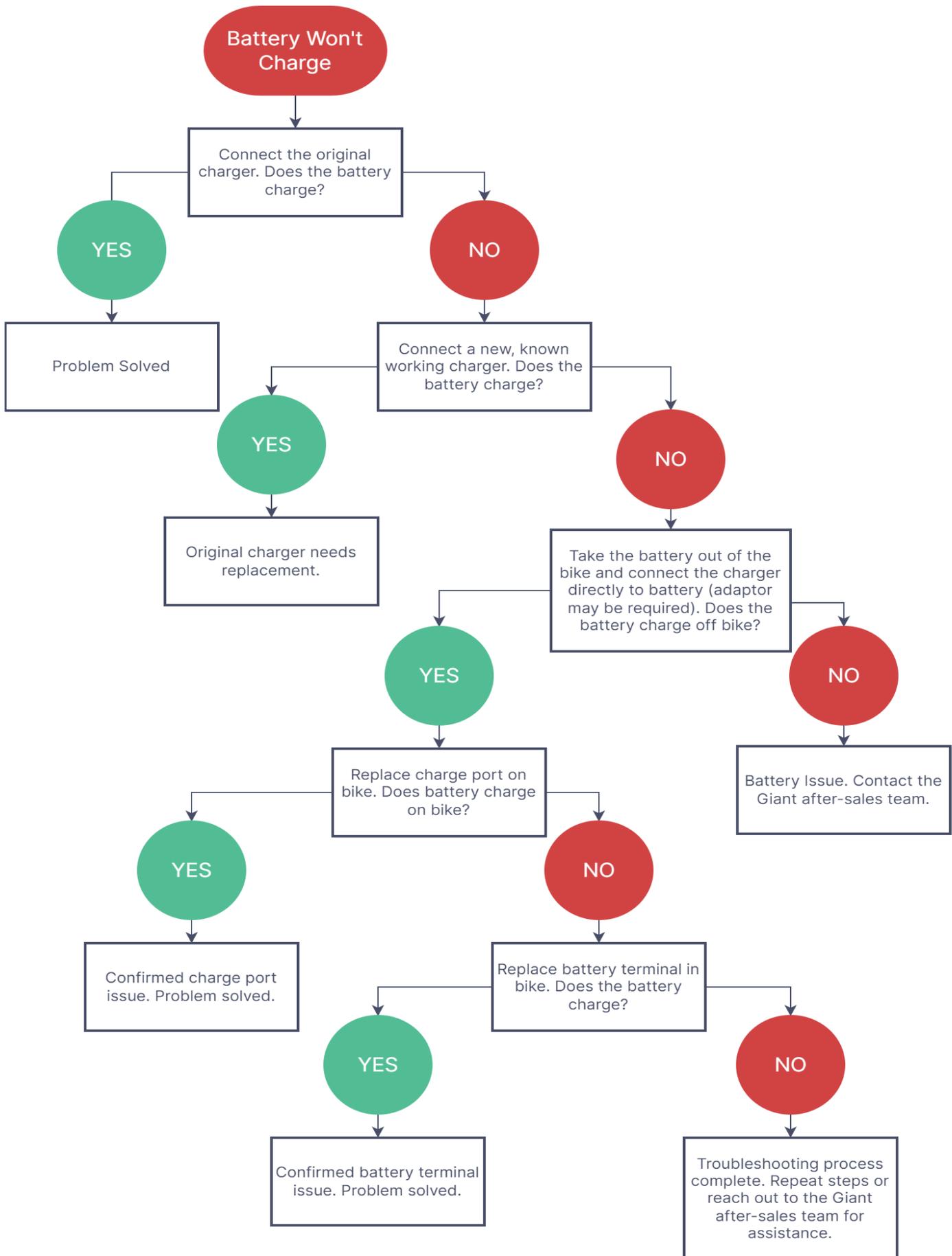
Page 3-5: Troubleshooting Flowcharts

Page 6-15: Kit Parts Overview

G-System Kit Contents

	Part Description	Part Sku	Part Photo
A	RideControl Button Pad & Bluetooth Unit	245-FLED28-15	
B	RideControl Display Remote	2417MFBTNXX-01	
C	RideControl Display <i>**Two interchangeable skus, only one display included in kit**</i>	245MFLCD28-59 245MFLCD28-60V	
D	Downtube Cable Type 1 – 3 pin connector	147L-HDPOBX-02	
E	Downtube Cable Type 2 – 4 pin connector	147L-HDPOB0-15	
F	Wheel Speed Sensor Type 1–Dropout Mount	4430-FSJISS-01	
G	Wheel Speed Sensor Type 2–Stay Mount	245MYAMH-02V	
H	Battery Terminal Shim & Screws (Set of 3)	2120MWASHER-520V	
I	SyncDrive Motor Spider Tool – 36mm Socket	2520-36NUT-02V	
J	T25 Security Torx Wrench	2520-T25-01V	

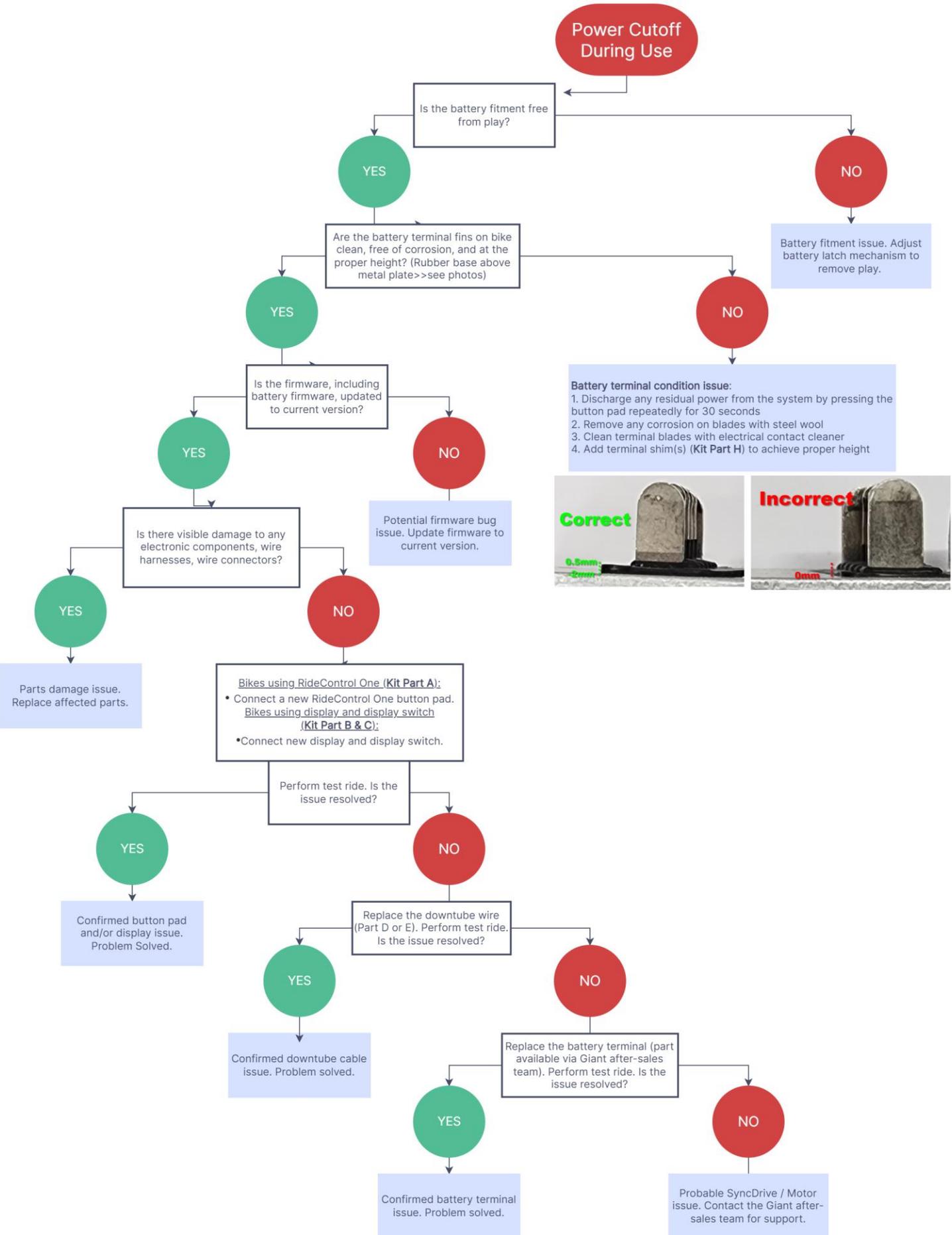
Battery Charge Issues:



Bike Cannot Power On:



Power Cutoff During Use:



245-FLED28-15

19-21 RideControl One, G-System, ANT+



Functions

- Holds bike's operating system programming and Bluetooth/ANT+ Radio
- Reads Button Functions to communicate with motor
- Sends Speed to Phone App
- Sends Battery info to Phone App
- Turns bike on and off
- Shows Charge Status
- Selects assist modes
- Activates Walk Assist
- Turns lights on and off

Diagnostics

- on/off power issues
- lighting issues
- Assis mode issues

2417MFBTNXX-01

17-20 RideControl Evo/Charge Remote



Functions

- Turns bike on and off
- Selects assist modes
- Activates Walk Assist
- Turns lights on and off
- Changes Display Screens
- Changes Display Brightness

Diagnostics

- on/off power issues
- lighting issues
- Assis mode issues
- Walk Assist issues

245MFLCD28-59

18-20 RideControl EVO Display 3 mode AND 5 mode w/Auto



Functions

- Communicates with USB Service Tool (600000066)
- Holds bike's operating system programming and Bluetooth/ANT+ Radio
- Reads Button Functions to communicate with motor
 - Responds to button pad
 - Displays:
 - Current speed
 - Odometer
 - Battery Charge Percentage
 - Assist mode
 - Shows if lights are on and off
 - Trip info:
 - Max Speed
 - Trip Distance

Diagnostics

- Use with Remote (2417MFBTNXX-01)
- Exchange with RideControl One (245-FLED28-15)

As an add-on accessory

- Requires Remote (2417MFBTNXX-01)

147L-HDPOBX-02

17-22 Main Display Cable G-System 3pin 830mm Rigid + FS



Functions

- Connects Display System to Motor and Battery
- Connects to lights

Diagnostics

- Power issues
- Assist issues
- Lighting issues

147L-HDPOB0-15

20-21 Main Display Cable G-System 4pin 730mm



Functions

- Connects Display System to Motor and Battery
- Connects to lights

Diagnostics

- Power issues
- Assist issues
- Lighting issues

4430-FSJSS-01

20+ Wheel Speed Sensor Integrated 600mm



Functions

- Speed info to motor

Diagnostics

- Speed issues

245MYAMH-02V

17-21 Speed Sensor Chain Stay Mounted 700mm



Functions

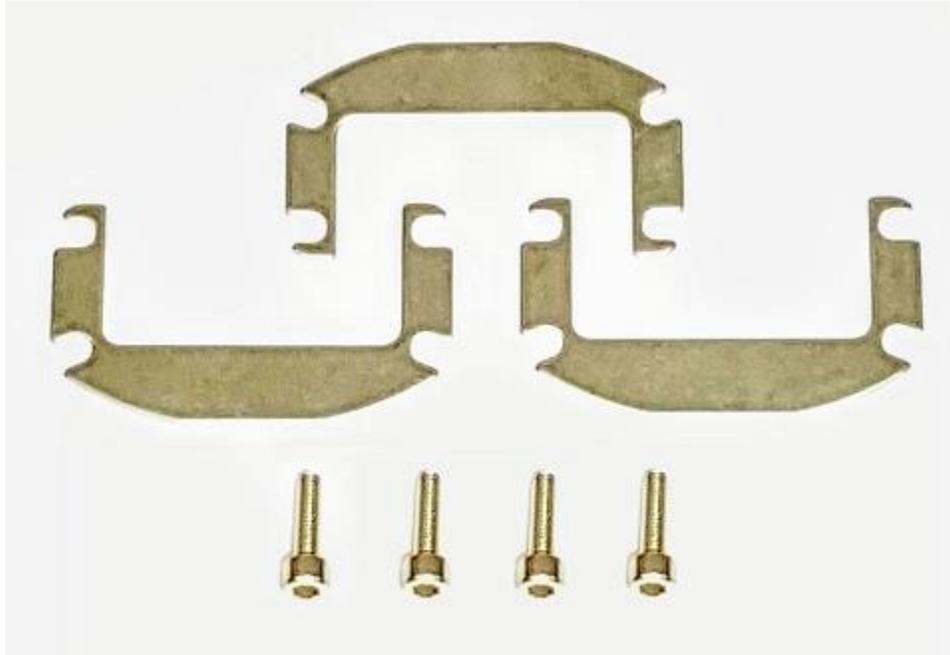
- Speed info to motor

Diagnostics

- Speed issues

2120MWASHER-520V

19+ Integrated Battery Terminal SHIM (3 w/screws)



Functions

- Alters height of terminal blades.

Diagnostics

- Power issues
- Charging issues

2520-36NUT-02V

17+ Sport Life Motor 36mm Spider Lock Ring Tool 3/8 Socket



Functions

- Chainring Sider Removal for Core, Life, Sport Motors

2520-T25-01V

17-22 E-Bike Security Pin-Hole Torx Wrench T25



Functions

- Remove chainstay mounted speed sensors
- Remove and Adjust EMTB Battery Locks