



RITE CARTS

RITE CARTS OWNER'S MANUAL & TECHNICAL DOCUMENTATION



Summary of Rite Carts Owner's Manual

Rite Carts Specifications

- Rider capacity: at least 600 lbs.
- Weight capacity of metal shopping baskets: at least 150 lbs.
- Continuous operation: minimum of 14 hours
- Driving capabilities: forward and reverse, easy maneuverability

Warranty

- Parts & Charger: One-year warranty from date of shipment
- Battery: One-year replacement, requires the serial number of the cart
- Labor: One-year limited warranty

Safety Instructions

- Use an outlet protected by a GFCI for charging
- Replace damaged or frayed charging cords
- Disconnect power before servicing
- Handle the cart with care to avoid rolling

Recommended Operating Procedures

- Charge batteries for 8 hours before first use
- Use the cart on hard, level surfaces only
- Do not exceed load limitations
- Do not allow children to operate the cart

Daily Maintenance Check List

- Replace worn or frayed power cords
- Tighten or replace the seat and mounting if necessary
- Test and replace the seat switch if it is not working properly
- Ensure smooth throttle operation
- Maintain height adjustment of anti-tip casters
- Repair or replace any component causing safety hazards

Battery Charging

- Install a GFCI in the electrical circuit for charging
- Charge batteries every night and at every opportunity
- Fully charged batteries last up to 5 days of normal use
- Never store a cart with discharged batteries for more than 5 days
- Test the charger operation by checking the charger light

Battery Replacement

- Recycle old batteries responsibly
- Disconnect the charger cord before replacing batteries
- Follow the proper procedure for connecting battery leads
- Secure batteries with a strap before reinstalling the cover

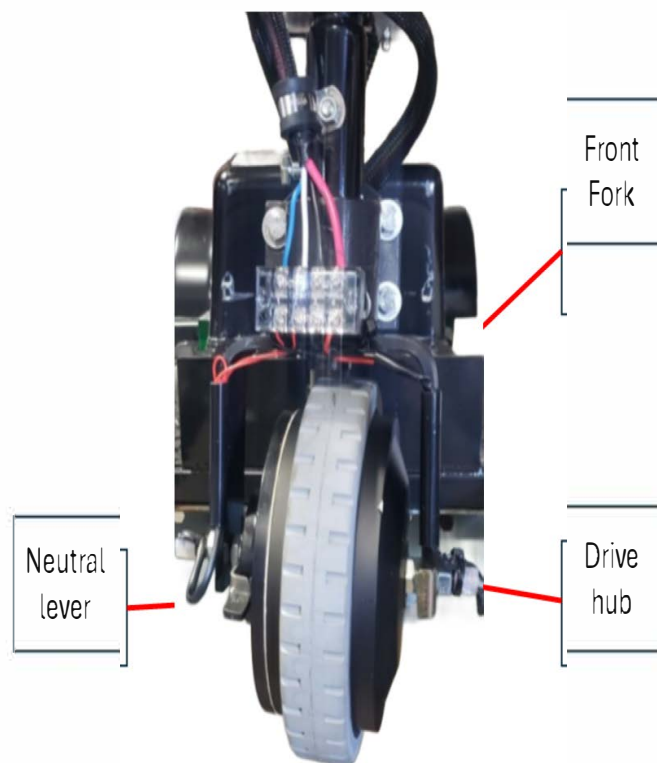
Parts List

Detailed list of parts with corresponding codes and descriptions.

Troubleshooting

- Green light flashing: Check voltage, seat switch, wiring
- No power: Check fuse, battery voltage, rocker switch
- Not charging: Check the wall outlet, the cord, and the charger

**DO NOT DRAG OR PUSH CART
WHEN CART IS INOPERABLE
ENGAGED THE FREE WHEEL
LEVER LOCATED ON LEFT
SIDE OF DRIVE MOTOR THEN
CART WILL MOVE FREELY**



WARRANTY

- **Parts & Charger**: One-year warranty from date of shipment.
- **Battery**: One-year Replacement. Provide the serial number of the cart. Charging the battery for 8 hours is required to determine whether an actual replacement is needed.
 - **Labor**: One-year limited warranty.

Parts-Limited Warranty—All parts, except upholstery and broken switches, are warranted by the manufacturer to be free from defects in material and workmanship for a period of one year from the date of shipment. **This warranty does not include wear and tear caused by above normal usage, abuse, negligence, freight damage, or damage caused by improper use or care, NOT USING THE FREE WHEEL LEVER WHEN CART IS INOPERABLE LOCATED ON DRIVE MOTOR OR NOT TIGHTING 19 MM BOLTS ON DRIVE MOTOR DURING PM, or by outside sources such as fire, floods, etc.**

If components have failed due to defects in material or workmanship, they will be replaced or repaired at the manufacturer's discretion at no charge to the owner.

Labor—The manufacturer will cover labor charges for work performed in the field for one year from the date of shipment because of defects in materials and workmanship. Charges incurred for replacing the fuses, seats, and broken switches are exempted, and **NOT USING THE FREE WHEEL LEVER WHEN CART IS INOPERABLE LOCATED ON DRIVE MOTOR OR NOT TIGHTENING 19MM BOLTS ON DRIVE MOTOR DURING PM**, Double service calls due to improper first call service or lack of repair parts are exempted.

The malfunction is not attributable to a defect. **The above warranties exclude shipping, handling, or travel expenses incurred for the repair of said cart or parts, as well as items worn out through normal use, whose malfunction is not attributable to defects.**



RITE CARTS

SAFETY INSTRUCTIONS

Please read before operating

Never attempt to charge the batteries in this cart without using an electrical outlet that a GFCI protects (Ground Fault Circuit Interrupter).

- Replace the charging cord if the plug is damaged or if the cord is worn or frayed.
- Never use the charging cord without proper grounding. Do not use it if the plug does not have three terminals.
- Always disconnect power before servicing.
- (Daily Maintenance Checklist) and follow instructions.
- The cart can roll. Enter and exit the cart with care.

RECOMMENDED OPERATING PROCEDURES

New carts may need charging! Charge batteries for 8 hours before first use.

- This cart is for use **INDOORS/OUTDOORS** on **HARD** level surface only.
- **DO NOT STAND ON THE CART.** (See “Operating & Warning Instructions” on cart.)
- After batteries are charged, disconnect the power supply cord before operating the cart.
- **DO NOT:** exceed the load limitations as shown on the cart. • Secure the power cord to the cart when in operation.
- **DO NOT:** allow children to operate or play on carts or put children in baskets.

DAILY MAINTENANCE CHECKLIST

- **ELECTRIC CORD** — Replace the cord if the cord is worn or frayed, 3-pronged plug is broken. Be sure that the power outlet provides protection through an operating “Ground Fault Circuit Interrupter” (GFCI).
- **SEAT AND MOUNTING** — Tighten if necessary. If cracks or rust occur, or if the seat rocks loosely, replace it at once.
- **SEAT SWITCH** — Test and replace if not working properly. Carts must stop when the weight is removed from the seat.
- **THROTTLE** — Test for smooth “start, acceleration, deceleration, and stop.” Repair if necessary.
- **ANTI-TIP CASTERS** — Replace if broken. Maintain height adjustment of 3/8" to 1/2" above floor level.
- **GENERAL** — Repair or replace any component that would cause a potential safety hazard.
- **APPEARANCE** — Wipe off and clean as needed for customer satisfaction and the store’s public image. Daily Maintenance Check List: Battery Charging

BATTERY CHARGING

- Install a Ground Fault Circuit Interrupter (GFCI) in the electrical circuit wherever the cart is to be charged. This is to protect against any possible shock hazard.
- The AC voltage required is 120V AC. The current draw is 1.5 amps. The charger’s output will be 8 amps constant current, DC, to the batteries.
- Charge batteries every night, all night, and at every opportunity. When the batteries are fully charged, the charger will maintain a “float voltage,” which will not damage the batteries.
- One complete charge will allow up to 5 days of normal shopping operation before batteries are completely discharged. Fully discharged batteries will take 20 hours to fully charge, so it is best not to let the batteries become completely discharged.

- Do not store the cart with discharged batteries for more than 5 days, as this can cause premature battery failure. Fully charge the batteries at least every 5 days, if in a low usage location.
- To determine if the charger is working properly, remove the rear cover, plug the charger into a GFCI protected line. The Charger light should be orange, if charging, and green if the batteries are fully charged.
- No maintenance of batteries is required. The batteries are maintenance free, and water cannot be added.
Note: Under normal conditions, the batteries will last 18 months or longer if the above recommendations are implemented. Rite Cart is not responsible for any adverse effects caused by replacement with any other type of batteries.

FREIGHT DAMAGE

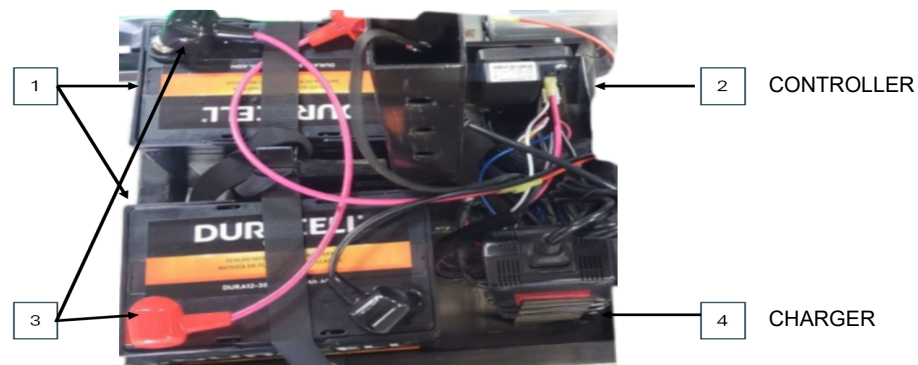
- **CHECK:** The shipping carton for any visible damage. Report on the damage to the freight carrier immediately. File a claim with the carrier if actual damage to your cart has occurred.
- Contents of the carton. The contents should agree with the information listed on the packing list. Report any discrepancy to the carrier and the factory immediately.

ATTENTION

- It is the responsibility of the owner of this cart to maintain the cart in a safe and reliable operating condition.

BATTERY REPLACEMENT

Be Responsible: Recycle old batteries or dispose of them according to local or national codes. • Note: If the cart needs to be moved without the power on or if the battery is low, the friction disc can be released. “Disengage” by pushing down the brake release that is located at the front left side of the drive motor to engage the Freewheel. The brake release must be “Engaged” for normal cart operation.



To Replace Batteries: (Read precautions on battery - avoid any sparks)

1. Turn off the switch. Disconnect charger cord from wall outlet, if plugged in.
2. Loosen the bolt to remove the seat.
3. The rear cover can then be removed.
4. Remove the tie-down strap from the batteries.
5. Disconnect the negative and positive wire bundles from the battery posts and remove the batteries. CAUTION: Do not cross battery posts with metal objects!
6. Connecting the red leads to the positive post (+) first. Connecting the black leads to the negative post (-). Reposition the protective cover over the positive post.

WARNING: Reversing battery connections may damage motor controllers!

1. Secure batteries with a strap.
2. Before reinstalling the cover, check the wheel condition and the general condition of the chair.
3. Reinstall the rear cover and put the seat back, and tighten the seat bolt.
4. Test the cart for proper operation. Charge batteries if necessary.

The seat switch is located under the seat. Pressure (weight) on the seat closes the control circuit and allows the cart to operate.

VARIABLE SPEED

The cart's speed is regulated by a potentiometer. This provides extremely smooth acceleration from 0 to 2.5 MPH and is in the control box on the steering column and is controlled by the wig-wag lever to make cart move forward or reverse by pushing lever forward. (Note: the lever is located under the head assembly, where the picture below is pointing at the lever.



PARTS LIST



DIAGRAM REF

DESCRIPTION

PART #

1	Rocker Switch	RC0012
1	Head assembly	590
2	Horn Switch	RC0010
3	Battery gauge	RC0003
4	USB Charger port	RC0007
5	Front cover	260
6	Handle grips	RC0017
7	Indicator light	RC011
8	Rear Cover	550
9	Cord	RC0020
10	Seat	RC0016
10	Seat switch	RC0026
11	POT	RC0019
12	Basket	RC0013
13	Caster wheel	RC0015
14	Basket bracket	230-A
14	Basket bracket	280-C

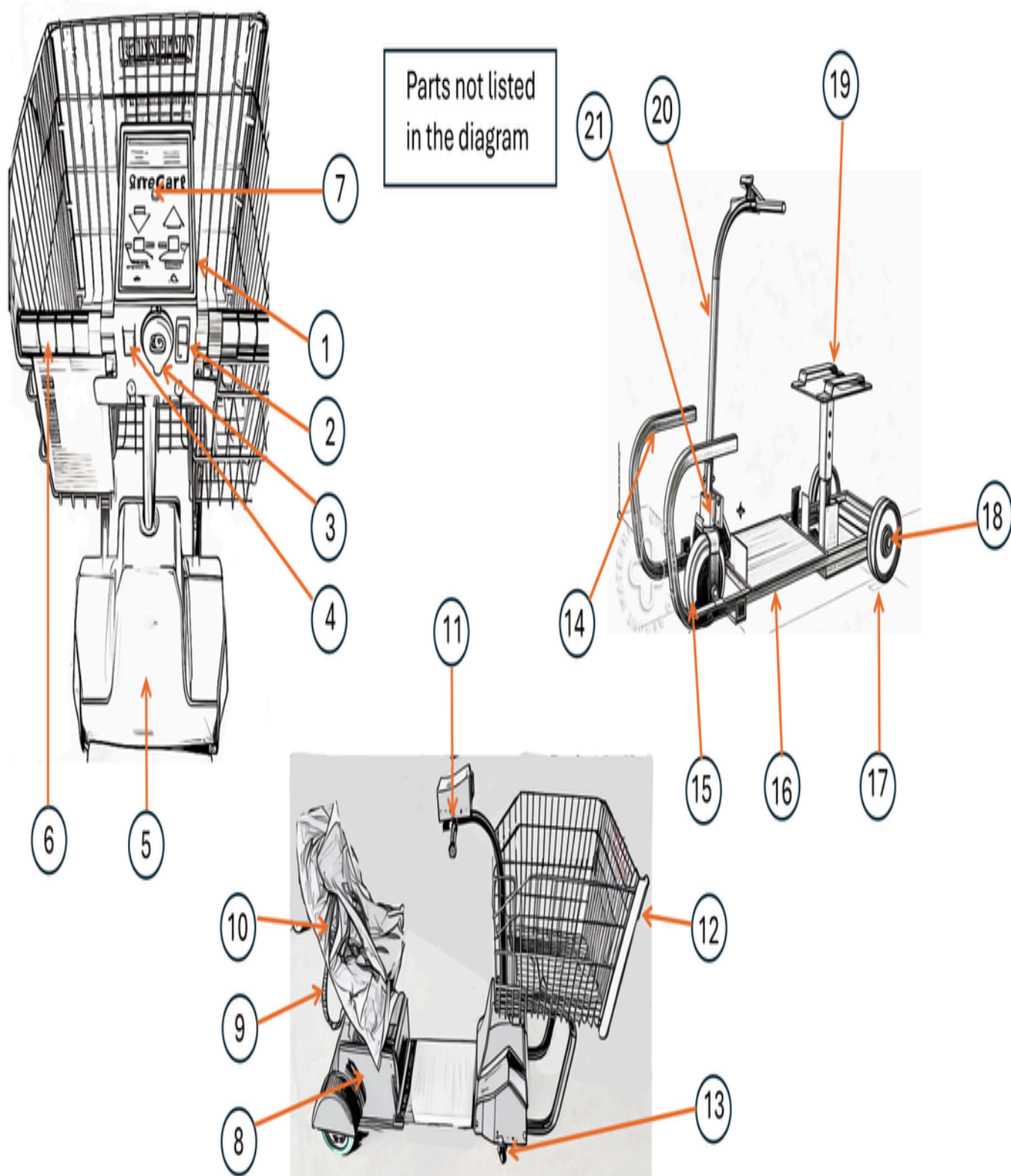
15	WIEGHT LIMIT SIGN	
16	Main Frame	235
17	Rear Wheel	RC0014
18	Axle	280-B
19	Seat Post	RC0004
19	Seat bracket	280-A
20	Steering column	440
21	Front Fork	235-A
Parts not Illustrated	Battery charger	RC0001
Parts not Illustrated	Controller	RC0002
Parts not Illustrated	Rear Cover plug	RC0005

Parts not Illustrated	Rear cover seal	RC0006
Parts not Illustrated	Wire Block	RC0008
Parts not Illustrated	Battery	PSM12-35
Parts not Illustrated	Horn	RC0018
Parts not Illustrated	RITE CART LABEL (BACK OF SEAT)	RC0021
Parts not Illustrated	DISCONNECT LABEL (CORD)	RC0022
Parts not Illustrated	CHARGER LABEL (REAR COVER)	RC0023
Parts not Illustrated	WARNING LABEL (REAR COVER)	RC0024
Parts not Illustrated	HEAD LABEL	RC0025
Parts not Illustrated	Wig Wag	280-D
Parts not Illustrated		

	Rear bumper	920
Parts not Illustrated	WIRING HARNESS (HEAD	RC00028
Parts not Illustrated	WIRING HARNESS (CONTROLLER TO DRIVE MOTOR)	RC00029
Parts not Illustrated	WIRING HARNESS (CONTROLLER TO HEAD)	RC00030
Parts not Illustrated	STATIC GROUND CABLE	RC00031



RITE CARTS



WIRING DIAGRAM

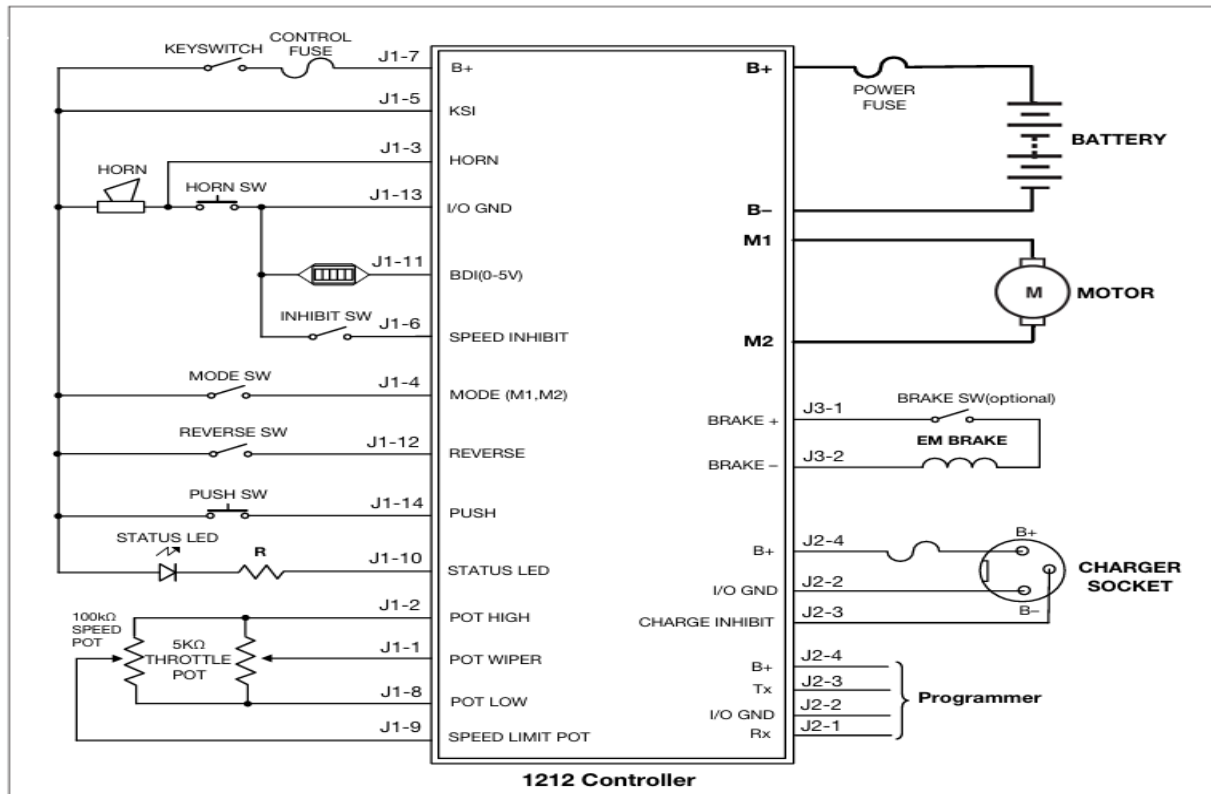


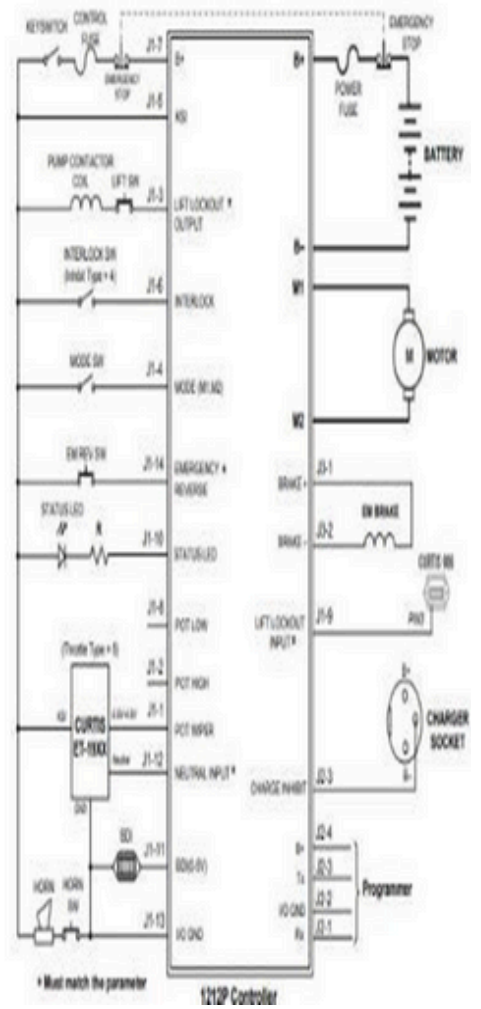
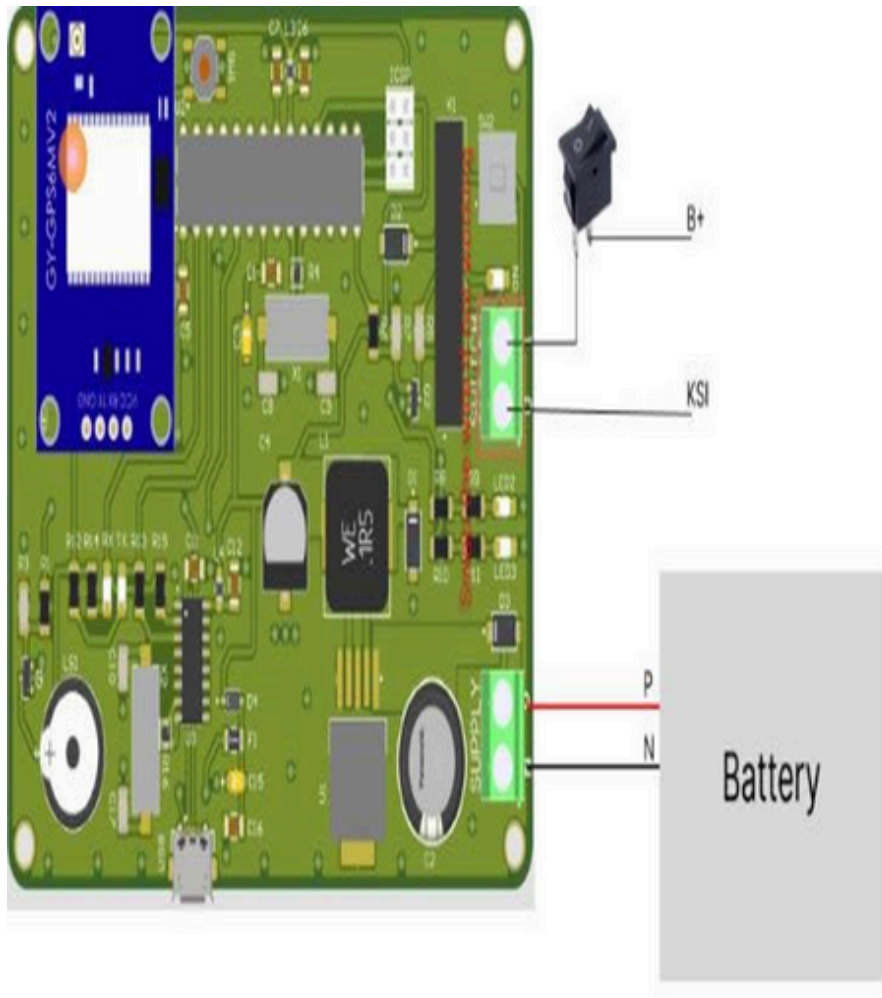
Table 2 Status LED Fault Codes

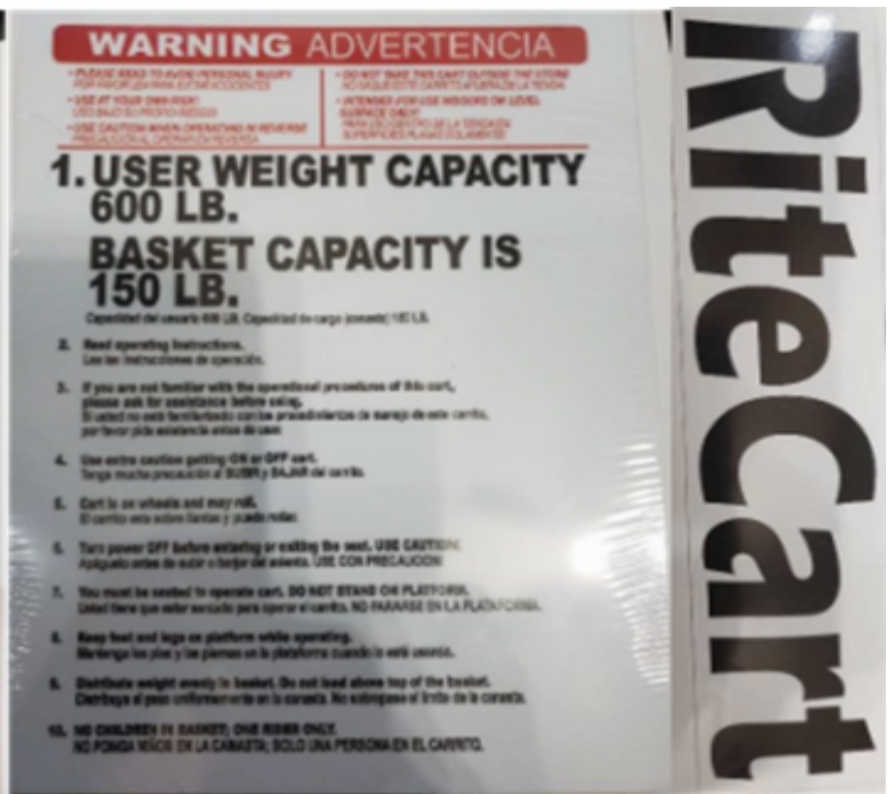
LED CODES		FAULT
LED off		no power or defective controller controller powered up; no faults
solid on		
1,1		THERMAL FAULT
1,2		THROTTLE FAULT
1,3		SPEED POT FAULT
1,4		UNDervoltage FAULT
1,5		OVERvoltage FAULT
2,1		MAIN OFF FAULT
2,2		MOTOR STALLED
2,3		MAIN FAULT*
2,4		MAIN ON FAULT
3,1		WIRING FAULT*
3,2		BRAKE ON FAULT
3,3		PRECHARGE FAULT*
3,4		BRAKE OFF FAULT
3,5		HPD FAULT
4,1		CURRENT SENSE FAULT*
4,2		HARDWARE FAILSAFE*
4,3		EE CHECKSUM FAULT †
4,4		MOTOR OPEN
4,5		BATTERY DISCONNECT FAULT*

* = Must cycle keyswitch to clear.

† = Must use programmer to clear, as follows: select Program menu, alter data value of any parameter, cycle keyswitch.

RITE CARTS SMART TRACKER





TROUBLE SHOOTING

GREEN LIGHT FLASHING AND CART WONT MOVE

- CHECK VOLTAGE (24 VOLT)
- CHECK SEAT SWITCH.
- CHECK WIRING ON (WIRE CONNECTION BLOCK) AT FRONT FORK ABOVE DRIVE MOTOR.

NO-POWER

- CHECK 30 AMP FUSE (UNDER REAR COVER)
- CHECK BATTERY VOLTAGE (24 VOLT)
- CHECK ROCKER SWITCH (CHECK WIRING ON SWITCH)

NOT CHARGING

- CHECK WALL OUTLET (GFI OR BREAKER)
- CHECK CORD
- CHECK CHARGER (CHECK DC VOLTAGE WITH VOLT METER) OR PRESS BUTTON ON USB CHARGER LOCATED NEXT TO ON/OFF SWITCH TO SEE WHAT VOLTAGE IS WHEN CHARGER IS PLUGGED IN.

Table 3 TROUBLESHOOTING CHART

LED CODE	PROGRAMMER LCD DISPLAY	EXPLANATION	POSSIBLE CAUSE
1,1	THERMAL FAULT	over-/under-temperature cutback	1. Temperature >80°C or < -10°C. 2. Excessive load on vehicle. 3. Operation in extreme environments. 4. Electromagnetic brake not releasing.
1,2	THROTTLE FAULT	PotLow and/or PotWiper out of range	1. Throttle input wire open or shorted. 2. Throttle pot defective. 3. Wrong throttle type selected.
1,3	SPEED POT FAULT	speed limit pot wiper out of range	1. Speed limit pot wire(s) broken or shorted. 2. Broken speed limit pot.
1,4	UNDERVOLTAGE FAULT	battery voltage too low	1. Battery voltage <17 volts. 2. Bad connection at battery or controller.
1,5	OVERVOLTAGE FAULT	battery voltage too high	1. Battery voltage >31 volts. 2. Vehicle operating with charger attached. 3. Intermittent battery connection.
2,1	MAIN OFF FAULT	main contactor driver Off fault	1. Main contactor driver failed open.
2,2	MOTOR STALLED	motor stall fault	1. Motor is stalled.
2,3	MAIN FAULT	main contactor fault	1. Main contactor welded or stuck open. 2. Main contactor driver fault.
2,4	MAIN ON FAULT	main contactor driver On fault	1. Main contactor driver failed closed.
3,1	WIRING FAULT	HPD fault present >10 sec.	1. Misadjusted throttle. 2. Broken throttle pot or throttle mechanism.
3,2	BRAKE ON FAULT	brake On fault	1. Electromagnetic brake driver shorted. 2. Electromagnetic brake coil open.
3,3	PRECHARGE FAULT	precharge fault	1. Brake driver shorted. 2. Precharge circuit damaged. 3. MOSFET failure.
3,4	BRAKE OFF FAULT	brake Off fault	1. Electromagnetic brake driver open. 2. Electromagnetic brake coil shorted.
3,5	HPD FAULT	HPD (High Pedal Disable)	1. Improper sequence of throttle and KSI, push, or inhibit inputs. 2. Misadjusted throttle pot.
4,1	CURRENT SENSE FAULT	current sense out of range	1. Short in motor or in motor wiring. 2. Controller failure.*
4,2	HARDWARE FAILSAFE	motor voltage out of range	1. Motor voltage does not correspond to throttle request. 2. Short in motor or in motor wiring. 3. Controller failure.*
4,3	EEPROM CHECKSUM FAULT	EEPROM fault	1. EEPROM failure or fault.
4,4	MOTOR OPEN	motor open fault	1. Motor wiring is open.
4,5	BATTERY DISCONNECT FAULT	battery disconnected	1. Battery not connected. 2. Poor connection to battery terminals.

*Jack up vehicle and retest to confirm diagnosis. Clean connections, inspect system wiring, and retest.

TASKS TO BE PERFORMED ONCE A MONTH

TIGHTEN DRIVE MOTOR 19mm NUTS

CHECK 8 WIRE BLOCK ABOVE DRIVE MOTOR FOR LOOSE WIRES

CHECK AND TIGHTEN 9/16 BOLT ON STEERING COLUMN

CHECK DRIVE MOTOR FOR TRASH IN AXLE & REAR WHEELS

CHECK CORD FOR ANY DAMAGE, REPLACE IF NEEDED

TEST THROTTLE RESPONSE FORWARD & REVERSE & STOPPING RESPONSE

CHECK FOR ANY FLAT SPOTS ON ALL WHEELS

CHECK BOTH ANTI TIP CASTERS

CHECK ON/OFF SWITCH & BATTERY GAUGE

CHECK REAR AND FRONT COVERS FOR ANY DAMAGE, REPLACE IF NEEDED

TEST CHARGING SYSTEM, PLUG CORD IN TO SEE VOLTAGE RISE ON USB CHARGING GAUGE

CHECK SEAT SWITCH OPERATION AND CONNECTIONS

CHECK HORN OPERATION

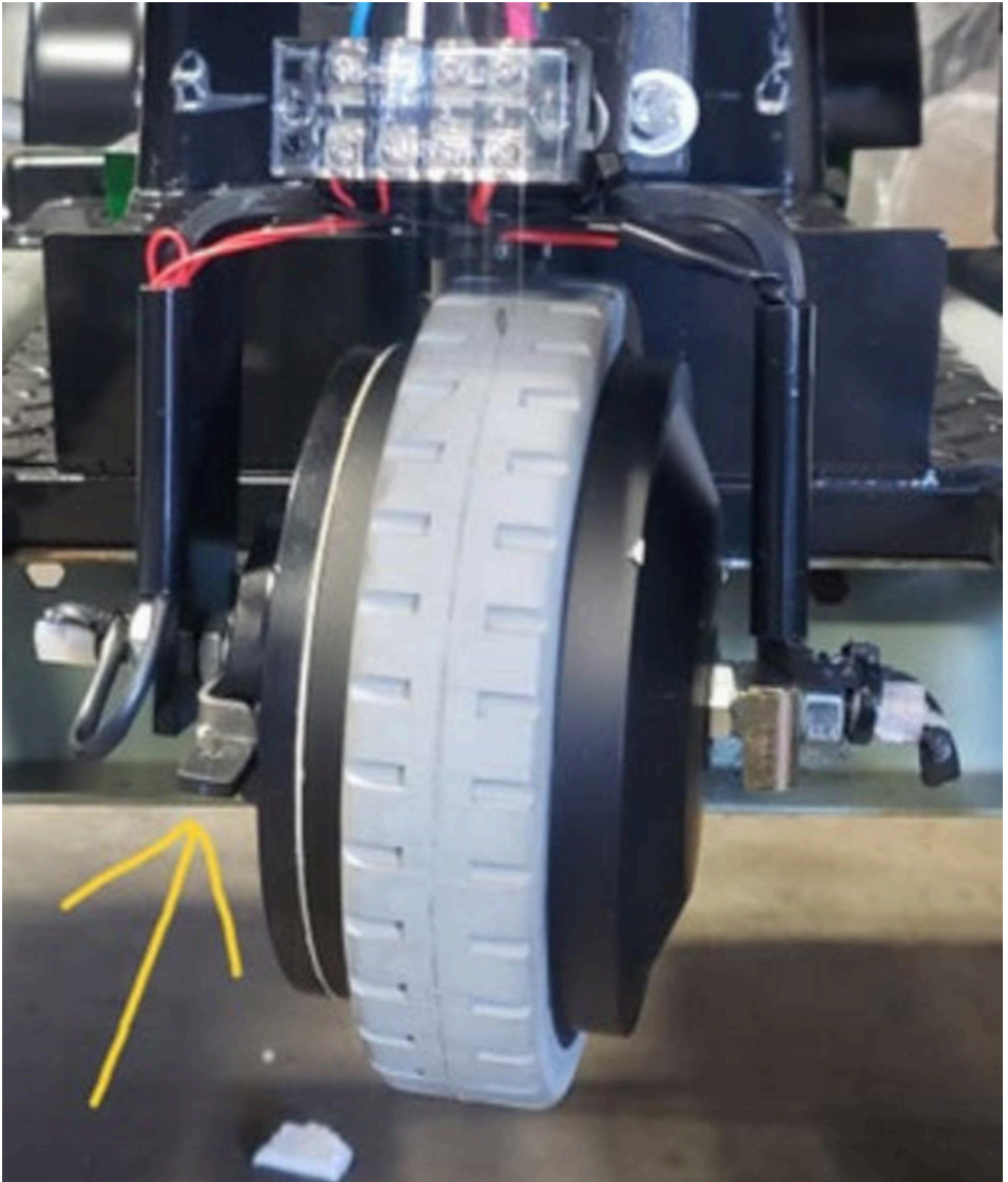
CHECK HANDLE GRIP CONDITION

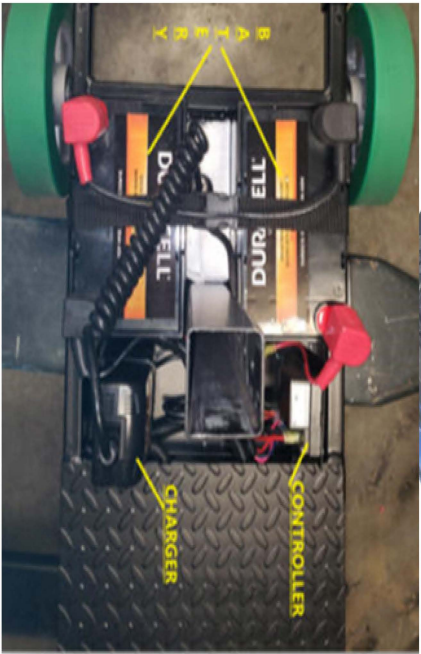
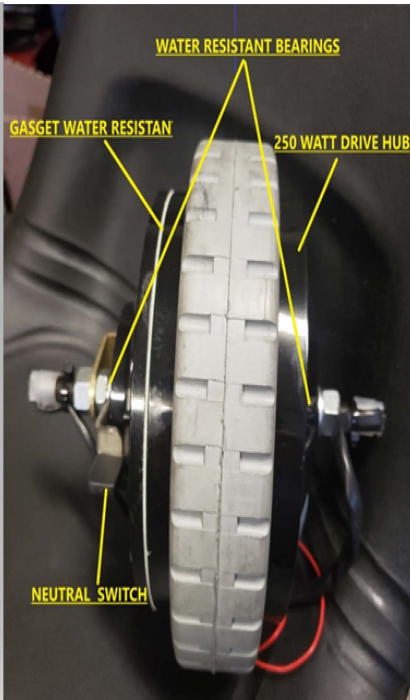
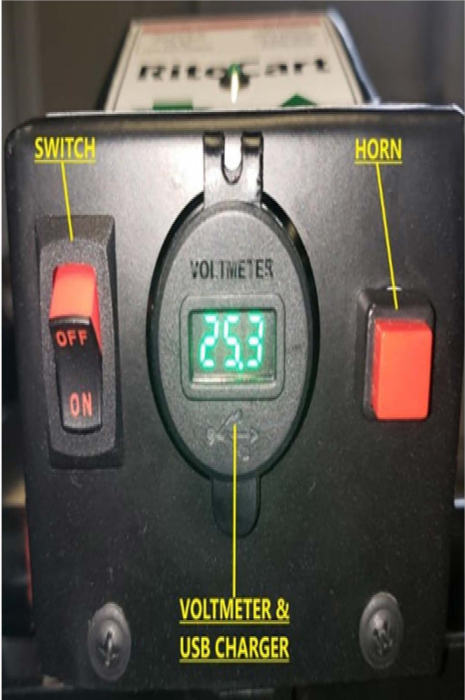
CHECK BATTERY CONNECTIONS AND WIRING, PERFORM AMP DRAW TO TEST LIFE OF BATTERY



RITE CARTS

**DO NOT DRAG OR PUSH WHEN CART IS INOPERABLE ENGAGED THE FREE WHEEL LEVER
LOCATED ON LEFT SIDE OF DRIVE MOTOR THEN CART WILL MOVE FREELY.**







RITE CARTS

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