

|  | Ver | Symptom   | Likely Cause                             | Fix   |
|--|-----|---|--|---|
|  | 1   | All TW won't power on 1                         | Battery level low                        | Charge it, review charging stages document, check battery voltage at the charge port and battery terminals            |
|  | 1   | All TW won't power on 2                         | Circuit Breaker Open/Broken/Unplugged    | Close Circuit Breaker, reconnect lose or unplugged wires, or replace with new one.                                    |
|  | 1   | All TW won't power on 3                         | Dashboard connection                     | Remove and Replace Dashboard, with a spare you know that is in working order  |
|  | 1   | All TW won't power on 4                         | Water Damage                             | Replace DB, CPU or TW   |
|  | 1   | All TW won't power on 5                         | Battery Terminal wires are loose/torn    | Remove top, then tighten down all battery terminal screws on wires  |
|  | 1   | TW2 TW won't power on 6                         | CPU cables loose from board              | Remove top and bucket, then tighten down all cable screws   |
|  | 1   | TW2 TW won't power on 7                         | Middle 2 CPU wires reversed              | Remove top and bucket, reverse middle 2 wires with screw driver   |
|  | 2   | All Transmitter won't power on 1                | Battery level low                        | Charge it   |
|  | 2   | All Transmitter won't power on 2                | Broken toggle                            | Open transmitter and Replace toggle   |
|  | 2   | All Transmitter won't power on 3                | Battery unplugged from board             | Open Tx case and replug battery cable   |
|  | 2   | All Transmitter won't power on 4                | Water Damage                             | Replace Tx  |
|  | 3   | All Tx won't connect to TW 1                    | Battery level low                        | Charge TW and Transmitter   |
|  | 3   | All Tx won't connect to TW 2                    | Mixed up Transmitter and TW              | Make sure Tx and TW stickers match  |
|  | 3   | All Tx won't connect to TW 3                    | Broken Toggle Switch                     | Replace toggle switch.  |
|  | 3   | All Tx won't connect to TW 4                    | Wrong Channel                            | Make sure TW and Tx have same channel assigned  |
|  | 3   | All Tx won't connect to TW 5                    | Bad Calibration                          | Calibrate TW  |
|  | 3   | All Tx won't connect to TW 6                    | Broken Tx                                | Replace Tx  |
|  | 3   | All Tx won't connect to TW 7                    | Bent antenna bracket                     | Bend antenna bracket to be 90 degrees from frame, then Calibrate TW   |
|  | 3   | All Tx won't connect to TW 8                    | Antenna wire damaged                     | Check both connections on the antenna wire (1.antenna board connection and 2.CPU connection)                          |
|  | 3   | All Tx won't connect to TW 9                    | Water Damage                             | The transmitter/antenna may have ended up in water  |
|  | 4   | TW2 "Left, Right or Center Sensors Disabled"    | Alternate Single Sensor Alert            | Ensure that nothing hangs in front of the sensors. <b>Press neutral repeatedly after alert to reset</b>               |
|  | 4   | TW2 "Sensor System Disabled" at power on 1      | Something covering sensors               | Ensure that nothing hangs in front of the sensors. <b>Press neutral repeatedly after alert to reset.</b>              |
|  | 4   | TW2 "Sensor System Disabled" at power on 2      | Broken Sensor                            | Look for sensors with damage or scratches (replace bad sensors). <b>Press neutral repeatedly after alert to reset</b> |
|  | 4   | TW2 "Sensor System Disabled" at power on 3      | TW following too close                   | Calibrate TW. <b>Press neutral repeatedly after alert to reset</b>  |
|  | 4   | TW2 "Sensor System Disabled" at power on 4      | Facing the unit while Tx connected       | Train user again on how to use TW. <b>Press neutral repeatedly after alert to reset</b>                               |
|  | 5   | All Tablet won't charge 1                       | Charge cable unplugged                   | Replug cable securely, make sure the cable is fully inserted.   |
|  | 5   | All Tablet won't charge 2                       | TW battery is dead                       | The unit needs to be charged and in working order to properly charge the tablet                                       |
|  | 5   | All Tablet won't charge 3                       | Charge cable bent                        | Rebend and then plug cable in again   |
|  | 5   | All Tablet won't charge 4                       | Charge cable broken                      | Replace broken cable  |
|  | 5   | All Tablet won't charge 5                       | Water Damage                             | Replace CPU   |
|  | 5   | All Tablet Screen is black                      | Tablet powered off or on lock screen     | Hold the power button on the top of the tablet or swipe up from bottom of the screen                                  |
|  | 5   | All Tablet won't go beyond start button         | Course file not saved correctly          | Restart tablet, reload course file, save course file  |
|  | 6   | All Unit shuts off frequently 1                 | Broken Sensor                            | TW says "front sensor" repeatedly or "Sensor Disabled" at power on then replace broken sensors                        |
|  | 6   | All Unit shuts off frequently 2                 | Dropped Tx                               | Calibrate TW  |
|  | 6   | All Unit shuts off frequently 3                 | Bent antenna bracket                     | Bend antenna bracket to be 90 degrees from frame, then Calibrate TW   |
|  | 6   | All Unit shuts off frequently 4                 | Same Channel                             | Make sure 2 of the same channels aren't on at the same time   |
|  | 6   | All Unit shuts off frequently 5                 | Broken Tx                                | Replace Tx  |
|  | 6   | TW2 Unit shuts off frequently 6 "Motor Fault"   | Middle 2 CPU wires may be loose          | Remove lid and remove bottom bucket, tighten up middle 2 wires with Phillips head screw driver                        |
|  | 7   | TW1 Both brakes locked up 1                     | Motor Fuses blown                        | Replace blown fuse on Motor Board   |
|  | 7   | TW2 Both brakes locked up 2 "Motor Fault"       | Motor Fuses blown (likely riding on TW)  | Replace CPU box with a new one.   |
|  | 7   | All Both brakes locked up 3                     | Disconnect brake connector               | Unplug and replug brake wires   |
|  | 7   | All Both brakes locked up 4                     | Dashboard wires unplugged                | Remove DB and examine DB wire to ensure all cables are plugged in completely  |
|  | 7   | TW1 Both brakes locked up 5                     | Dashboard wires unplugged                | Open CPU and examine DB wire to ensure all cables are plugged in completely   |
|  | 7   | TW1 Both brakes locked up 6                     | Ribbon Cable unplugged                   | Inspect ribbon cable on both CPU and Motor boards. Glue in cable on both sides  |
|  | 7   | TW1 One brake locked up 1                       | Disconnected brake connector             | Unplug and replug brake wires   |
|  | 7   | TW1 One brake locked up 2                       | Disconnected motor wires                 | Unplug and replug motor wires   |
|  | 7   | All One brake locked up 3                       | Motor Fuse blown                         | Replace blown fuse on Motor Board   |
|  | 7   | All One brake locked up 4                       | Motor Broken                             | Replace Motor   |
|  | 7   | TW1 Brakes don't engage 1                       | Dashboard wires unplugged                | Remove DB and examine DB wire to ensure all cables are plugged in completely  |
|  | 7   | TW1 Brakes don't engage 2                       | Dashboard wires unplugged                | Open CPU and examine DB wire to ensure all cables are plugged in completely   |
|  | 8   | All Unit follows erratically 1                  | Dropped Tx                               | Calibrate TW  |
|  | 8   | All Unit follows erratically 2                  | Bent antenna bracket                     | Bend antenna bracket to be 90 degrees from frame, then Calibrate TW   |
|  | 8   | All Unit follows erratically 3                  | Same Channel                             | Make sure 2 channels aren't on at the same time   |
|  | 8   | All Unit follows erratically 4                  | Wet CPU board                            | Replace CPU   |
|  | 8   | TW2 Unit follows erratically 5 spins in circles | Left or Right CPU wires reversed         | Remove lid and remove bottom bucket, reverse L/R black and red wires with Phillips head screw driver                  |
|  | 8   | All Unit follows erratically 6                  | Rear motor lock nut missing              | Tighten existing or replace with new lock washer  |
|  | 8   | All Unit follows erratically 7 Loud Motor       | Bent drive shaft (likely standing on TW) | Replace brake motor.  |
|  | 9   | All DB doesn't show channel # at power up       | Broken Dashboard                         | Replace CPU and Dashboard   |
|  | 9   | All DB shows a weak flickering blue light       | Battery level low, charger plugged in    | Flip Circuit Breaker the charge it. Review charging stages document   |