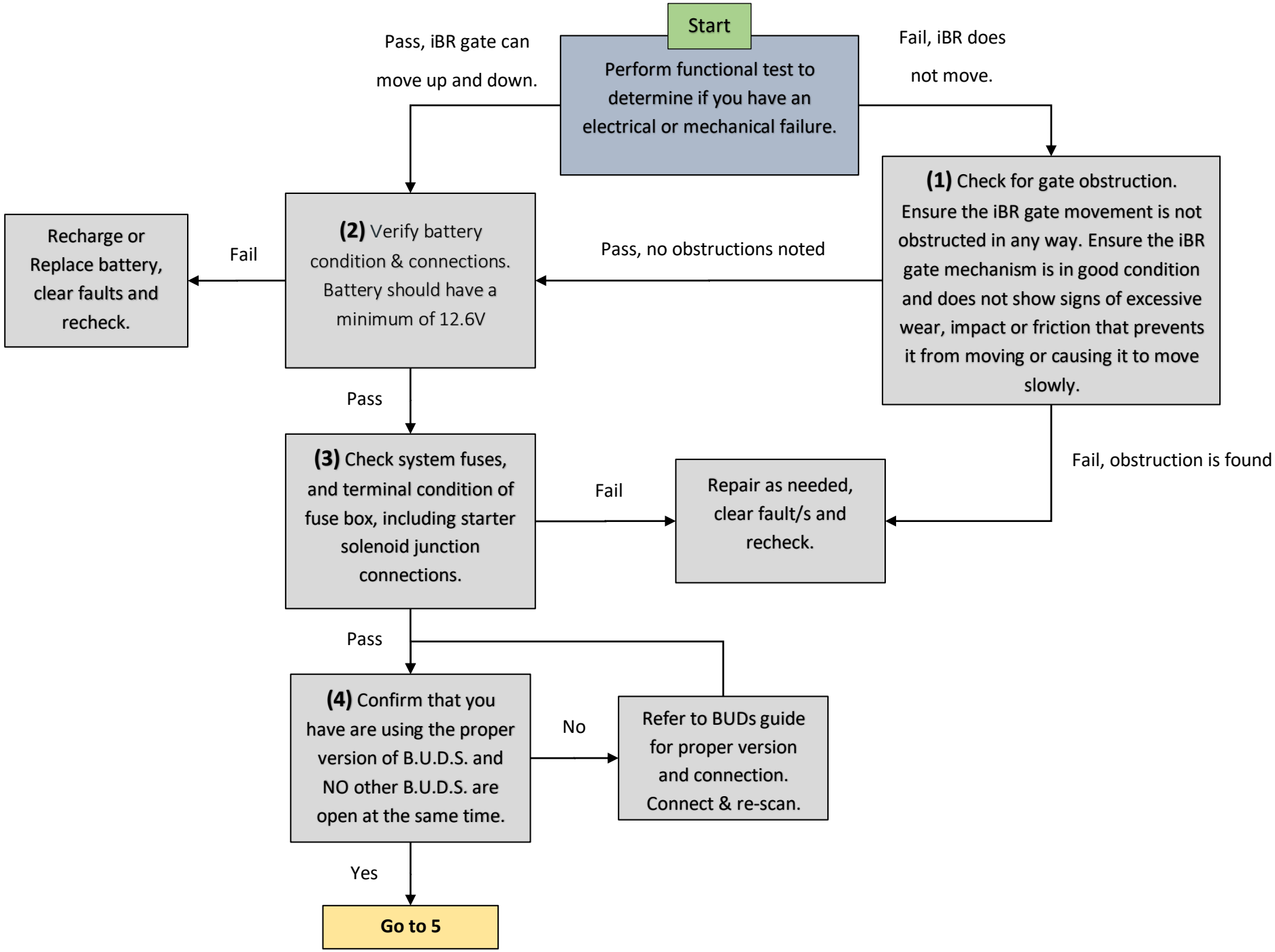
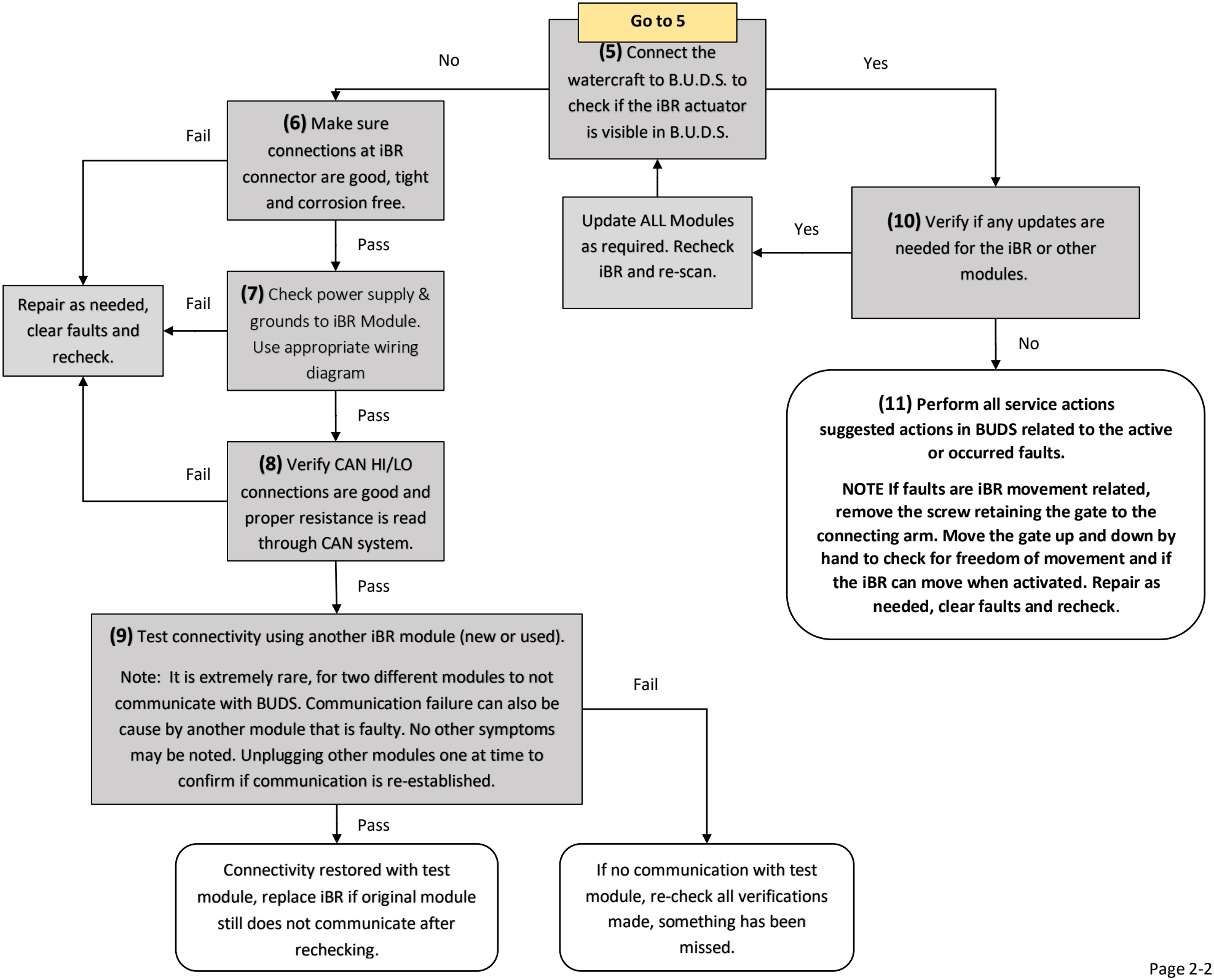

Start
Perform functional test to determine if you have an electrical or mechanical failure.
Pass, iBR gate can move up and down.
Fail, iBR does not move.
(1) Check for gate obstruction. Ensure the iBR gate movement is not obstructed in any way. Ensure the iBR gate mechanism is in good condition and does not show signs of excessive wear, impact or friction that prevents it from moving or causing it to move slowly.
Pass, no obstructions noted
(2) Verify battery condition & connections. Battery should have a minimum of 12.6V
Fail
Recharge or Replace battery, clear faults and recheck.
Pass
(3) Check system fuses, and terminal condition of fuse box, including starter solenoid junction connections.
Fail
Repair as needed, clear fault/s and recheck.
Fail, obstruction is found
Pass
(4) Confirm that you have are using the proper version of B.U.D.S. and NO other B.U.D.S. are open at the same time.
No
Refer to BUDs guide for proper version and connection. Connect & re-scan.
Yes
Go to 5


Go to 5
(5) Connect the watercraft to B.U.D.S. to check if the iBR actuator is visible in B.U.D.S.
No
Yes
(6) Make sure connections at iBR connector are good, tight and corrosion free.
Fail
Pass
Repair as needed, clear faults and recheck.
Fail
(7) Check power supply & grounds to iBR Module. Use appropriate wiring diagram
Pass
Fail
(8) Verify CAN HI/LO connections are good and proper resistance is read through CAN system.
Pass
(9) Test connectivity using another iBR module (new or used).
Note: It is extremely rare, for two different modules to not communicate with BUDS. Communication failure can also be cause by another module that is faulty. No other symptoms may be noted. Unplugging other modules one at time to confirm if communication is re-established.
Fail
Pass
Connectivity restored with test module, replace iBR if original module still does not communicate after rechecking.
If no communication with test module, re-check all verifications made, something has been missed.
Update ALL Modules as required. Recheck iBR and re-scan.
Yes
(10) Verify if any updates are needed for the iBR or other modules.
No
(11) Perform all service actions suggested actions in BUDS related to the active or occurred faults.
NOTE If faults are iBR movement related, remove the screw retaining the gate to the connecting arm. Move the gate up and down by hand to check for freedom of movement and if the iBR can move when activated. Repair as needed, clear faults and recheck.