



MRO Americas Maintenance Competition

Intermittent Fault Detection & Isolation with the Portable Intermittent Fault Detector™ (PIFD™)

Instructions:

1. Double click the desktop SYNAPSE icon to start SYNAPSE
2. Connect the “Demobox” Interface Adaptor (IA) to the PIFD J1 connector
3. Click “Start” on the Main SYNAPSE screen
4. Select Map Group “Competition”
5. Select Map Name “Maintenance Competition”
6. Input Team Number, Organization, or Company Name as S/N
7. Click Enter
8. Click Main Screen
9. Click “Start” – PIFD will automatically conduct Continuity test
10. Test Moderator will roll the “Ghost” or Gremlin” No Fault Found (NFF) / Cannot Duplicate (CND) simulator
11. Indicate to the Moderator any Continuity Issues or Pass (green halo around icon)
12. If Continuity Issue was present, click “Play” Icon to move on to Shorts test
13. Indicate to the Moderator outcome of Shorts test (Pass = green halo around icon)
14. Test will automatically move to Intermittence all circuit monitoring mode
15. Test Moderator will roll the “Ghost” or “Gremlin” No Fault Found (NFF) / Cannot Duplicate (CND) simulator
16. Read aloud to the Moderator all detected intermittent faults – red circle indicator will be drawn on the Fault Isolation Graphic for all detected intermittent fault events
17. Click “Stop” Icon to complete Intermittence test
18. Click “Play” to proceed to Fault Isolation
19. Read aloud to the Moderator the lowest fault number
20. Select “Virtual Meter” icon next to this lowest fault number – DMM display pops up
21. Read aloud to the Moderator the reading measurement with no stimulus
22. Moderator will press and hold lowest fault number test point
23. Read aloud to the Moderator the reading measurement and explain what is occurring
24. Moderator will lightly stimulate (tap) lowest fault number test point
25. Read aloud to the Moderator the reading measurement and explain what is occurring
26. Click “X” to close Virtual Meter
27. Click “Play” Icon to automatically run Reports and Complete testing process
28. Review score card with Test Moderator to calculate score