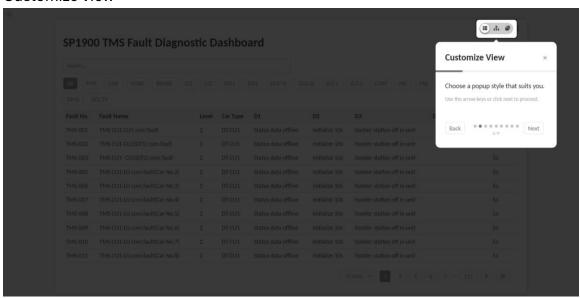
## **SP1900 TMS Fault Diagnostic Dashboard Manual**

- 1. Accessing the Dashboard
  - a. URL: https://tmsfault.github.io/SP1900-TMS-Fault-Diagnostic-Dashboard/

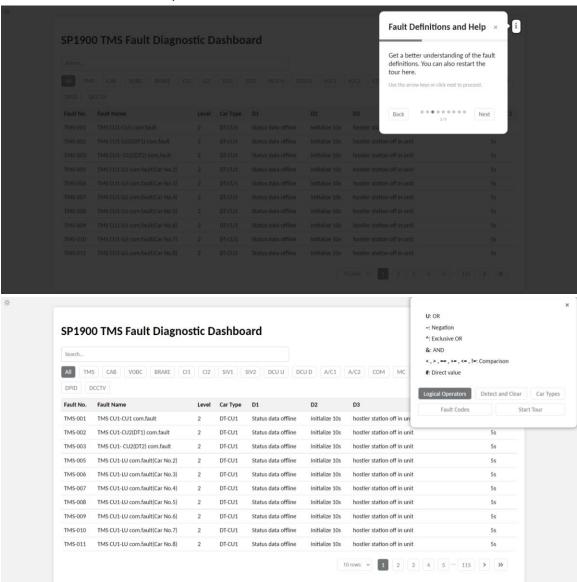
## QR CODE:



- 2. Using the Dashboard
  - a. Customize View

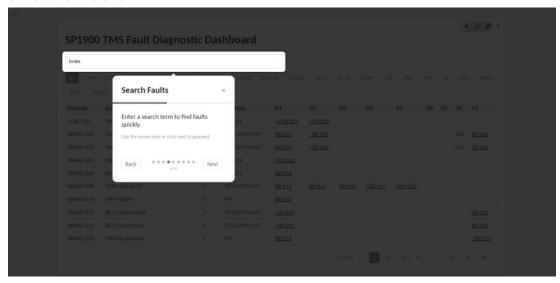


 You can choose to use different popup views based on your preferences (list, tree, page) b. Fault Definitions and Help

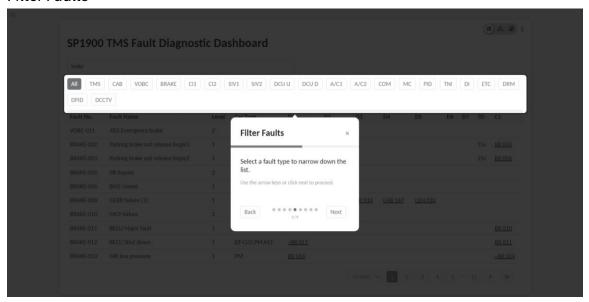


• You can see the definitions of the logical operators, detect and clear, car types, fault codes, and start a tour of the dashboard again.

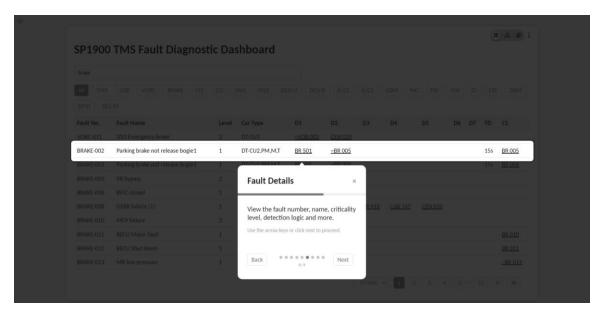
## c. Search Faults



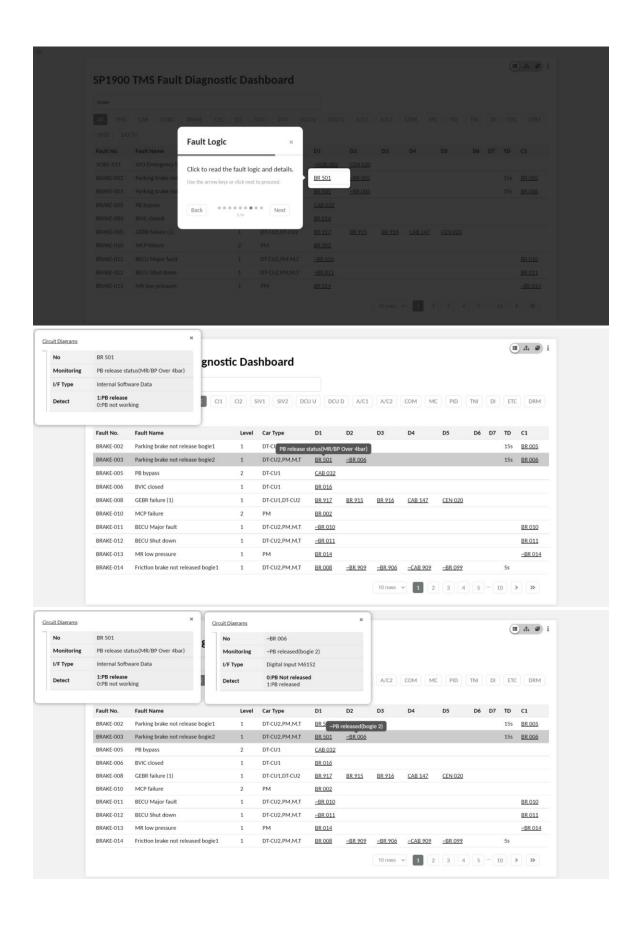
- Can use the search bar to search the fault code, fault terms, and fault information
- d. Filter Faults



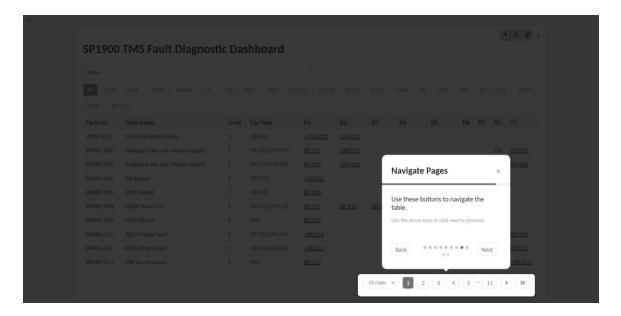
- Use the filter bar to sort by categories
- e. See Fault Details



• Each row shows the fault details (Fault No, Fault Name, Criticality Level, Car Type, Detect Conditions, Time Delay, Clear Condition

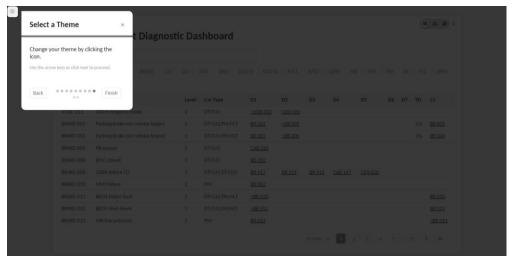


- Clicking on the detection fault codes will show the detection logic and i/f type (digital/physical data)
- f. Navigate Pages



• Use the navigation buttons to move to different pages, can also change the dropdown to show more than 10 faults in a page (10,25,50,All).

## g. Select a Theme



- Click the button to switch themes (light/dark)
- 3. Maintenance Guidelines (using GitHub repository)
  - a. Access the GitHub Repository

- URL: <a href="https://github.com/tmsfault/SP1900-TMS-Fault-Diagnostic-Dashboard">https://github.com/tmsfault/SP1900-TMS-Fault-Diagnostic-Dashboard</a>
- Login credentials:
  - GitHub: <a href="mailto:tmsfault@gmail.com">tmsfault@gmail.com</a> (Password: sp1900tmsfault)
  - Gmail: <u>tmsfault@gmail.com</u> (Password: sp1900tmsfault)
- b. Repository Structure Overview
  - index.html: code that formats the main page
  - scripts.js: code that has all the functionality of the dashboard
  - **styles.css**: code that stylizes the dashboard
  - fault\_data.csv: contains all the fault data of the sp1900 TMS
  - circuits/: (Folder containing all the circuit diagrams for each filter categories)
- c. Adding or Modifying Fault Data
  - Open this link 'sample\_data.csv' to help understand how to input data as an example
  - Open 'fault\_data.csv', find this line (it only contains a '-' in the 1st column):

1145	DCCTV-02	Digital CCT	3	DT-CU2,PN	DCT 125		
1146	DCCTV-02	Digital CCT	3	DT-CU2,PN	DCT 126		
1147	DCCTV-02	Digital CCT	3	DT-CU2,PN	DCT 127		
1148	-						
1149	CAB 900	transmissio	CAB 100 &	CAB 101			_
1150	CAB 901	V02 is ON	(DT1 CU1)	CAB 005 U	(DT2 CU1)	CAB 005	
1151	CAB 902	Speed dete	CEN 033 >	= #5			

- Add/Modify fault data above the line (for main fault code)
  - 1st column: Fault Code
  - 2<sup>nd</sup> column: Fault Name
  - 3<sup>rd</sup> column: Criticality Level (1,2,3)
  - 4<sup>th</sup> column: Car Type (DT-CU1,DT-CU2,PM,M,T)
  - 5<sup>th</sup> column: Detected Condition 1
  - ...11<sup>th</sup> column: Detected Condition 7
  - 12<sup>th</sup> column: Time Delay
  - 13<sup>th</sup> column: Clear Condition
- Add/Modify fault data below the line (for detected fault logic)
  - 1st column: Fault Code
  - 2<sup>nd</sup> column: Fault Name
  - $\rightarrow$  If 4<sup>th</sup> column is empty
    - o 3<sup>rd</sup> column: Fault Condition

- $\rightarrow$  Else
  - o 3rd column: Fault Logic (Negative Condition (~) (1:xxx))
  - 4<sup>th</sup> column: Fault Logic (Positive Condition (0:xxx))
- 5<sup>th</sup> column: I/F Type
- d. Changing/Updating Circuit Diagrams
  - Upload/Replace the new circuit diagram to GitHub and put it inside the 'circuits/' folder and name it respectively to its filter category. (i.e. CAB, TMS, BRAKE...)
    - Check 'scripts.js', if the filter category doesn't already exist and has a link to a circuit diagram, you can add a new line with that category and add the link to the circuit as well. (ex. 'XXX':

'https://tmsfault.github.io/SP1900-TMS-Fault-Diagnostic-Dashboard/circuits/XXX.pdf',)

```
let circuitDiagrams = {
25
        'TMS': 'https://tmsfault.github.io/SP1900-TMS-Fault-Diagnostic-Dashboard/circuits/TMS.pdf',
26
        'CAB': 'https://tmsfault.github.io/SP1900-TMS-Fault-Diagnostic-Dashboard/circuits/CAB.pdf',
        'VOBC': 'https://tmsfault.github.io/SP1900-TMS-Fault-Diagnostic-Dashboard/circuits/VOBC.pdf',
        'BRAKE': 'https://tmsfault.github.io/SP1900-TMS-Fault-Diagnostic-Dashboard/circuits/BRAKE.pdf',
29
        'CII': 'https://tmsfault.github.io/SP1900-TMS-Fault-Diagnostic-Dashboard/circuits/CI.pdf',
        'CI2': 'https://tmsfault.github.io/SP1900-TMS-Fault-Diagnostic-Dashboard/circuits/CI.pdf',
30
        'SIV1': 'https://tmsfault.github.io/SP1900-TMS-Fault-Diagnostic-Dashboard/circuits/SIV.pdf',
        'SIV2': 'https://tmsfault.github.io/SP1900-TMS-Fault-Diagnostic-Dashboard/circuits/SIV.pdf',
        'DCU U': 'https://tmsfault.github.io/SP1900-TMS-Fault-Diagnostic-Dashboard/circuits/DCU.pdf',
        'DCU D': 'https://tmsfault.github.io/SP1900-TMS-Fault-Diagnostic-Dashboard/circuits/DCU.pdf',
        'A/C1': 'https://tmsfault.github.io/SP1900-TMS-Fault-Diagnostic-Dashboard/circuits/AC.pdf',
        'A/C2': 'https://tmsfault.github.io/SP1900-TMS-Fault-Diagnostic-Dashboard/circuits/AC.pdf',
       'ETC': 'https://tmsfault.github.io/SP1900-TMS-Fault-Diagnostic-Dashboard/circuits/ETC.pdf',
       };
```

- e. Changing/Updating Main Page
  - Edit 'index.html' to change the main page.
- f. Changing/Updating Functions
  - Edit 'scripts.js' to add/edit/remove the functionality of the dashboard
- g. Changing/Updating Styling
  - Edit 'styles.css' to add/edit/remove the styling of the dashboard
- h. Commit changes on GitHub
  - To apply these changes, press Commit to update the dashboard to implement the new changes on the dashboard