



두산인프라코어

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VBO Diagnostic Tools Manual (DX350LC-3/DX380LC-3)

Electronics Integration Team

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1. Joystick Check

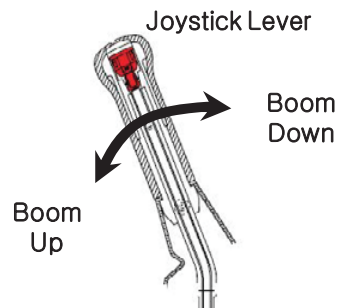
❖ The progress of the Joystick Check test

<Boom Down Pressure[F2]>

➤ STEP 1 – Select the Test

Click **Boom Down Pressure [F2]** or press F2

➤ STEP 2 – Tests performed actions



Joystick Lever Boom Down Quickly

Waiting one second

Return to neutral

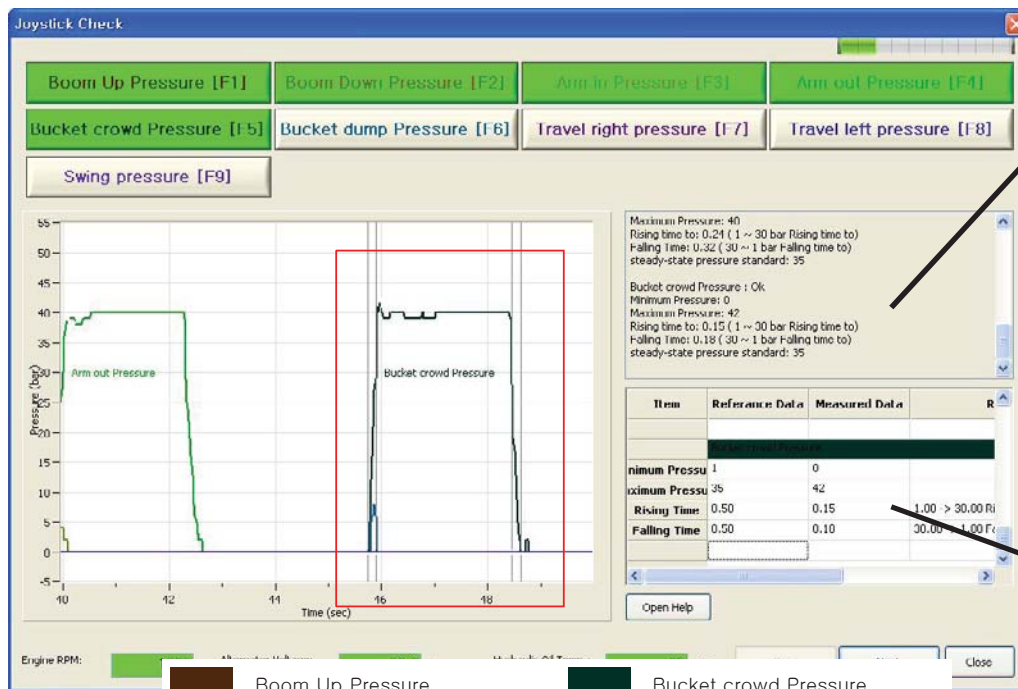
Return to neutral after waiting one second after Joystick Lever Boom Down Quickly

1. Joystick Check

❖ The progress of the Joystick Check test

<Bucket crowd Pressure[F5]>

➤ STEP 3 – Display Test results and Status



- Boom Up Pressure
- Boom Down Pressure
- Arm in Pressure
- Arm out Pressure
- Swing pressure
- Bucket crowd Pressure
- Bucket dump Pressure
- Travel right pressure
- Travel left pressure

▪ Display the test progress



※ Criteria

Minimum pressure: 3 bar ↓, Maximum pressure: 30 bar ↑
Quick Operation (0.5 sec ↓) Operating: 0 ~ 30 bar

▪ Display the Status Test Results

Item	Reference Data	Measured Data	R
Minimum Pressure	1	0	
Maximum Pressure	35	42	
Rising Time	0.50	0.15	1.00 -> 30.00 Ri
Falling Time	0.50	0.18	30.00 -> 1.00 Fi

※ Shown in red on fail

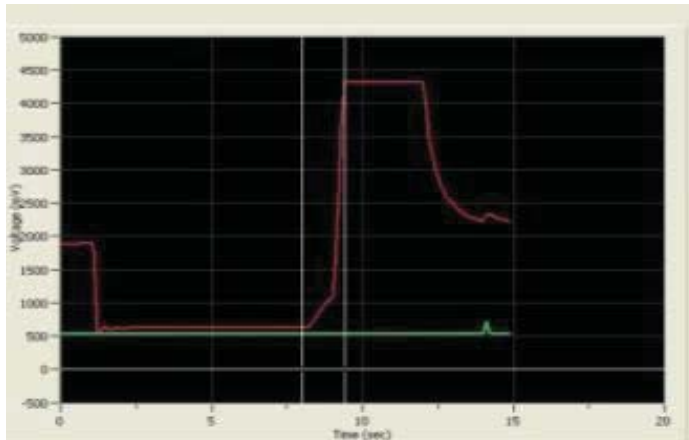
2. Swash Plate Angle Check

❖ The progress of the Angle Check test
<Rear Pump Angle volt [F2]>

➤ STEP 1 – Select the Test

Click **Rear pump Angle volt [F2]** or press F2

➤ STEP 2 – Tests performed actions



VBO diagnostic program will automatically run the Rear Pump Angle Volt

3. EPPR V/V Check

❖ The progress of the EPPR V/V Check test <Power Shift P/V 2[F2]>

➤ STEP 3 – Display Test results and Status



- Power Shift P/V 1
- Power Shift P/V 2
- Force Operation Command



- Display the test progress

```
Force Operation: Rear Pump Force Operation Stop
Power Shift P/V 2 : Command data: 100, Output data: 109, error: 9
Command data: 200, Output data: 207, error: 7
Command data: 300, Output data: 306, error: 6
Command data: 500, Output data: 504, error: 4
Command data: 700, Output data: 702, error: 2
Command data: 800, Output data: 805, error: 5
Command data: 840, Output data: 838, error: -2
revision necessary
the test results were more than 5% Error.
revision is required.
```

- Display the Status Test Results

Power Shift P/V 2			
Command	Output	Relative Error	Apply
100	109	8	Apply
200	207	7	Apply
300	306	6	Apply
500	504	4	Apply
700	702	2	Apply
800	805	5	Apply
840	838	-2	Apply

- ※ Results
– Display to command , output, error for each command
- ※ Status

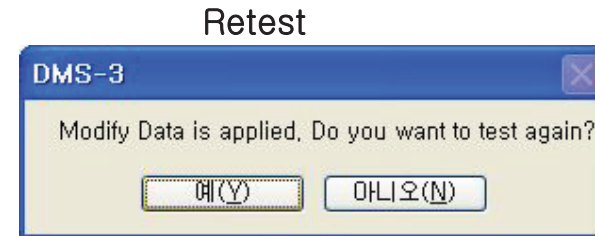
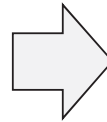
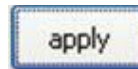
Reference	Green	Yellow	Red
100	± 5 mA ↓	± 25 mA ↓	± 25 mA ↑
200	± 5 mA ↓	± 25 mA ↓	± 25 mA ↑
300	± 3 mA ↓	± 20 mA ↓	± 20 mA ↑
500	± 3 mA ↓	± 20 mA ↓	± 20 mA ↑
700	± 3 mA ↓	± 20 mA ↓	± 20 mA ↑
800	± 5 mA ↓	± 25 mA ↓	± 25 mA ↑
850	± 5 mA ↓	± 25 mA ↓	± 25 mA ↑

4. Main Pump Pressure Check

- ❖ The progress of the Main Pump Pressure Check
<Rear Pump Pressure [F2]>

- ❖ STEP 4 – Apply modified value

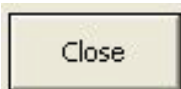
If you want to have to retake the modified values, click



※ Correction of error : Yellow, (Complex tolerance of the vehicle. Set up to by each single Pump tolerance)

- ❖ STEP 5 – Move the test menu

Click on

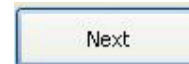


at the end of the Main Pump Pressure Check

➔ Go to the VBO Diagnostic Tools Main Screen

In order to check the next Test (Relief Pressure Check), Click

➔ Move to Relief Pressure Check



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