

Troubleshooting for UV unit

V. Cause and Action for alarm/trip relating to UV Chamber(unit)

E. UV LAMP TROUBLE

Trip indicates that a problem(s) occurs between electric ballast and ELCB, between electric ballast and UV lamp(s), or relevant connection line(s).

Cause	Description	Action
1	Abnormal UV lamp	13
2	Abnormal NTC	6
3	Faulty EUCR	6
4	Faulty Electric Ballast	5
5	Circuit breaker failure	1

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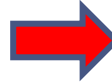
E. UV LAMP TROUBLE

Cause 1 : Abnormal UV lamp

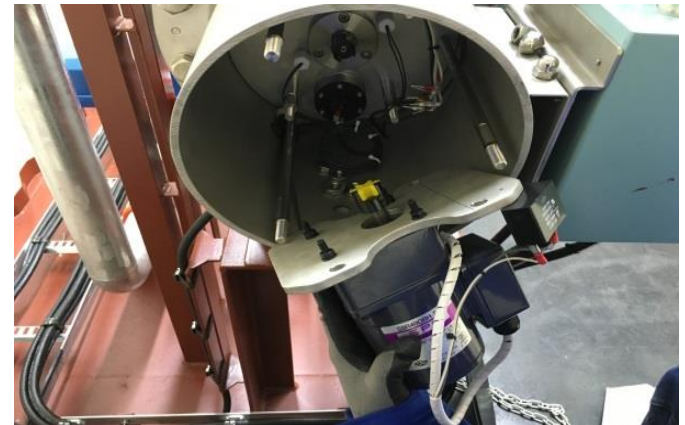
Action 1



1. Turn off Main CB(440V)
2. Remove Wiper Motor
3. Unscrew the **SCREWS**



Action 2



Action 3



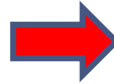
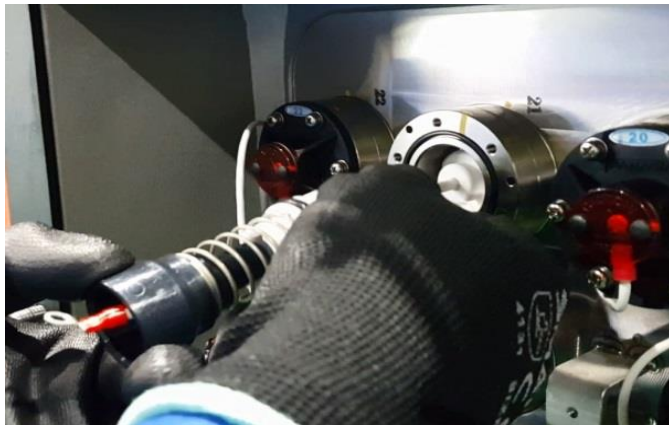
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Cause 1 : Abnormal UV lamp

Action 4



Action 5



Action 6



4. Dismantle Anti-Vibration Module and take UV lamps out
5. Check the UV lamps with UV lamp test kit whether it's properly working or not
6. Replace new one, if the lamp is abnormal condition

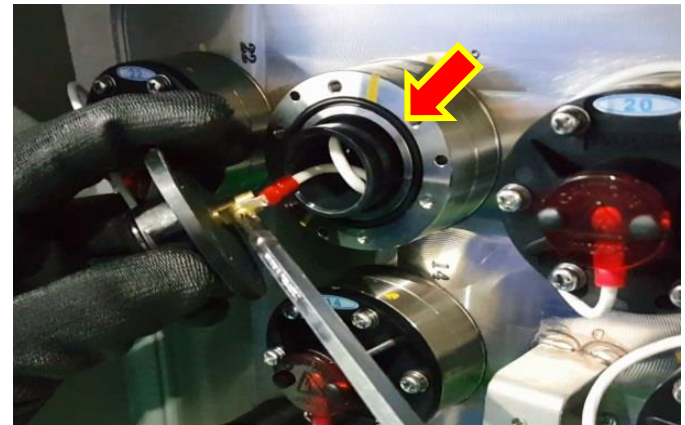
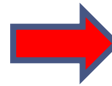
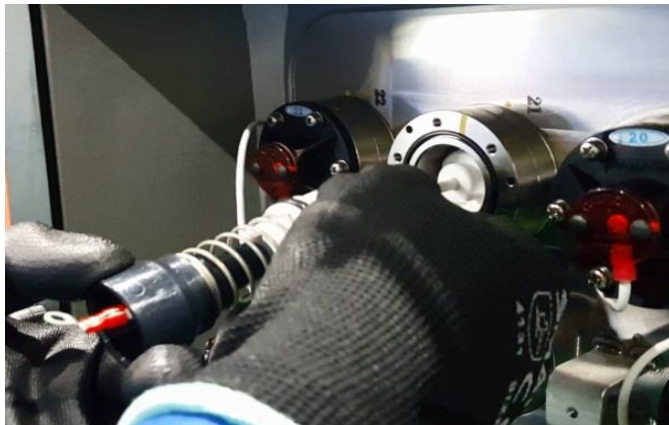
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Cause 1 : Abnormal UV lamp

Action 7



7. Assemble UV lamps with Anti-Vibration Module

Screw the **SCREWS**(1 pcs x M4 x 6L)
Before screwing the **SCREWS** up,
make sure O-ring shall be inserted.
Screw the **SCREWS**(6pcs x M4 x 12L)

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Cause 1 : Abnormal UV lamp

Action 8



Turn on the main circuit breaker and the relevant circuit breakers for UV lamps in UV Power Supply Panel.

Note: Please refer to below information

- **Lamp replacement Manual**
- **Lamp Test Kit Manual**

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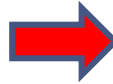
E. UV LAMP TROUBLE

Cause 2 : Abnormal NTC

Action 1



1. Turn off the power supply (440V, 110V or 220V)
2. Loosen the nuts fixing the back plate on the electric ballast.
3. Disconnect power cable for cooling fan from terminal block.



Action 2



Action 3



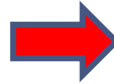
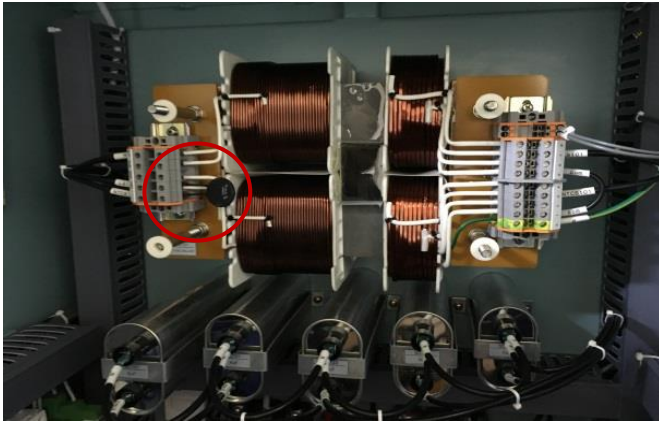
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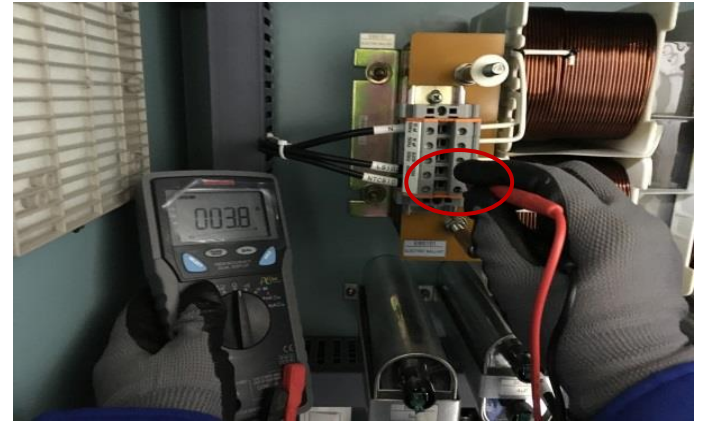
E. UV LAMP TROUBLE

Cause 2 : Abnormal NTC

Action 4

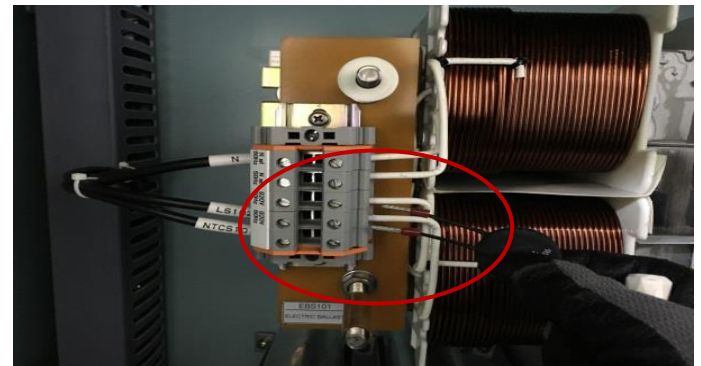


Action 5



4. Remove the back plate and check the connection arrangement of NTC
5. The resistance has to be $2.0 \sim 3.0 \Omega$ (Normal range)
6. Replace new one(NTC), if the resistance is abnormal condition

Action 6



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Cause 2 : Abnormal NTC

Action 7



If the resistance is normal, then go for the other check points including changing of UV lamp.

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Cause 3 : Faulty EUCR

Action 1



**Verify Ampere range set
(Normal: 3 A and 5 Sec)**

Action 2



**Check EUCR "ON" button is selected
on the GP Screen**

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Cause 4 : Faulty Electric Ballast

Action 1



**Turn off all Circuit Breakers
Before removing wiring**

Action 2



**In case of Non-Explosion type, Connect
No.1 to No.2 with cable**

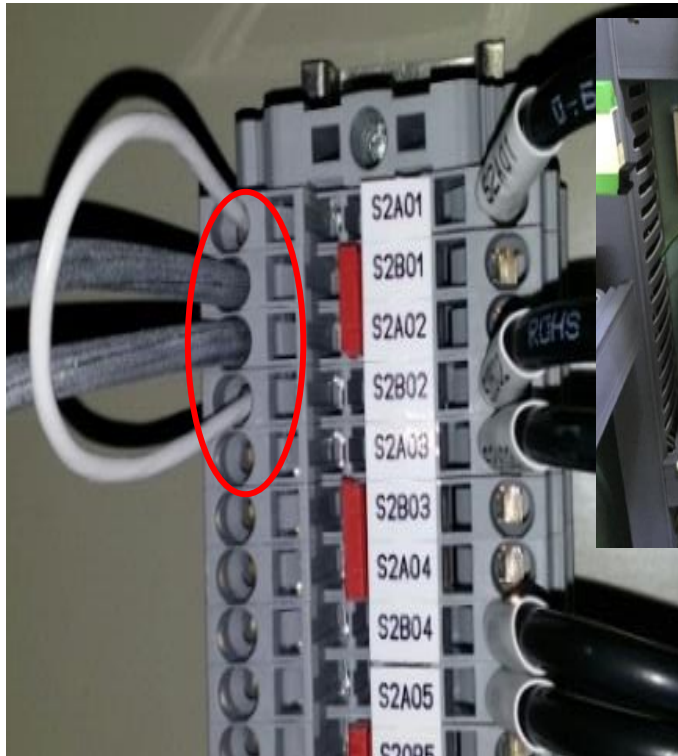
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Cause 4 : Faulty Electric Ballast

Action 3



In case of Explosion type, connect No.1 to No.4 with cable

Action 4



Hold a clamp meter on a cable connected directly.

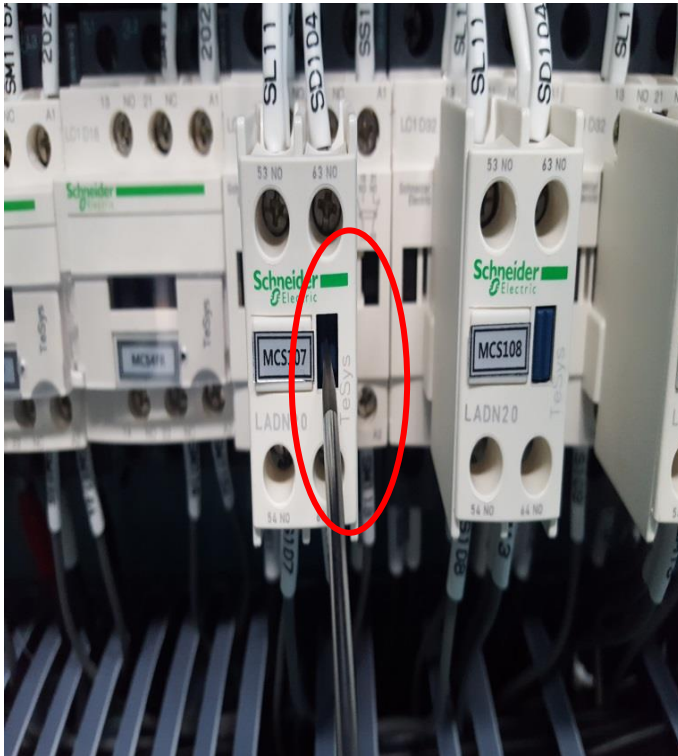
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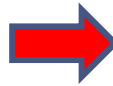
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Cause 4 : Faulty Electric Ballast

Action 5



Push a Magnetic switch with a small driver.



Between 10A to 14A of current flows in short-circuit test.

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Cause 5 : Circuit breaker failure

Action 1



If necessary, check and replace the circuit breaker in the UV Power Supply Panel