

Check and replace defective valves

Does this solve the problem?

1] Yes

2] No

3] I don't know

- **Explanation**
IN THE NACELLE:

Check and ensure that the needle valve is closed,

Valve Position Number: Parker **POS 0.16**,

If the Needle valve is found to be defective, replace it with new.

Item Number for Needle valve

[60104032](#) - Needle valve NVH-2201-

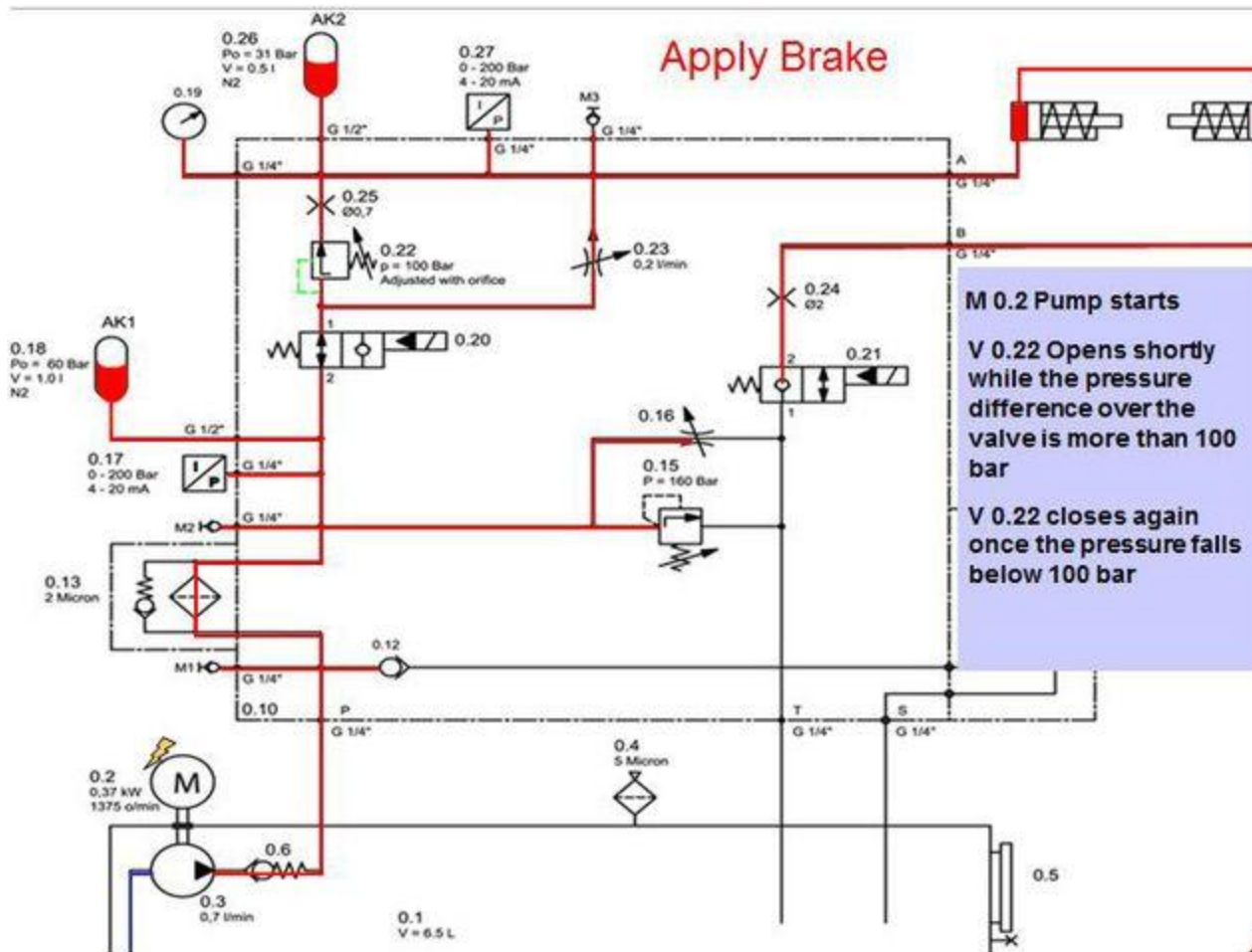
Check the solenoid valve **POS 0.20(NO), 0.21(NC)**

If solenoid valve is found to be defective, replace it with new.

Item number for solenoid valve:	
60104031	DIRECT VALVE N.C. 2/2 DSL-08-1
60104034	VLV DIRECT NO 2/2 DSL-08-1-CR



Parker system pressurized status:



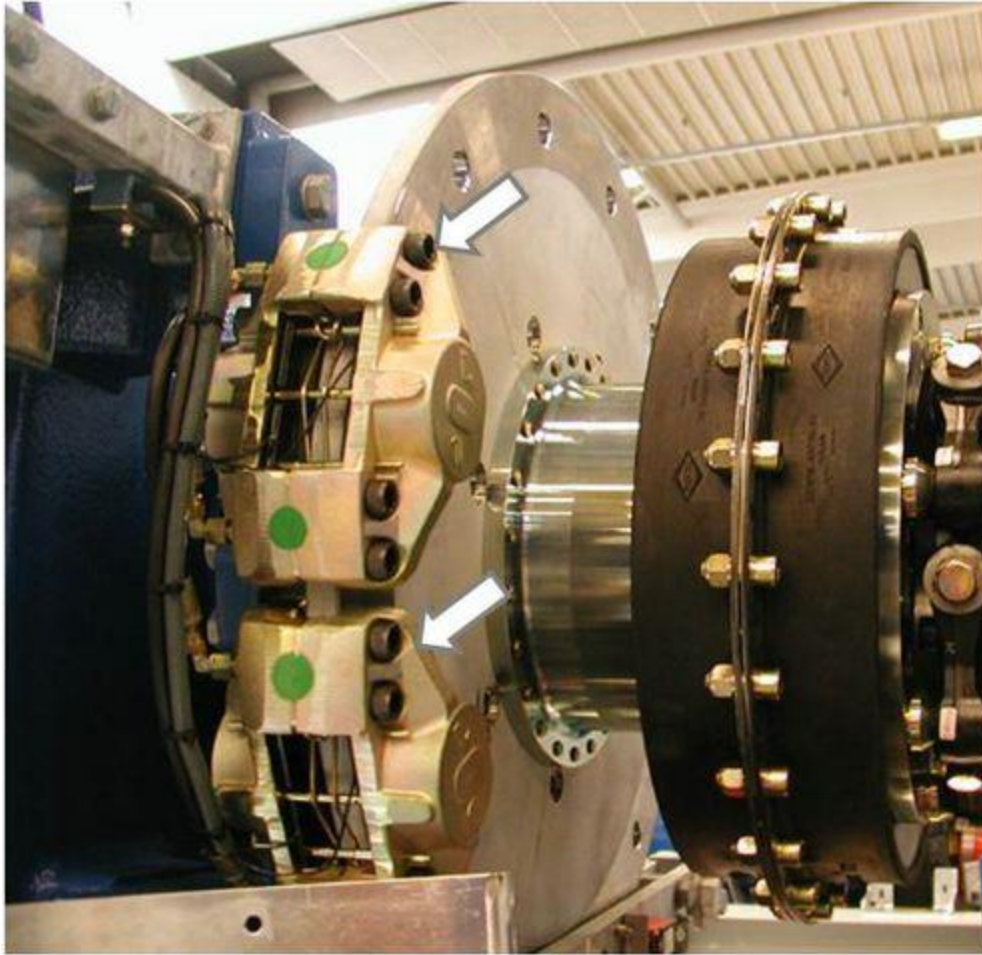
Replace the brake calliper defect or brake pad worn-out

Does this solve the problem?

- 1] Yes
- 2] No
- 3] I don't know

- **Explanation**
IN THE NACELLE:

Check the brake calliper for any physical damage or abnormalities.



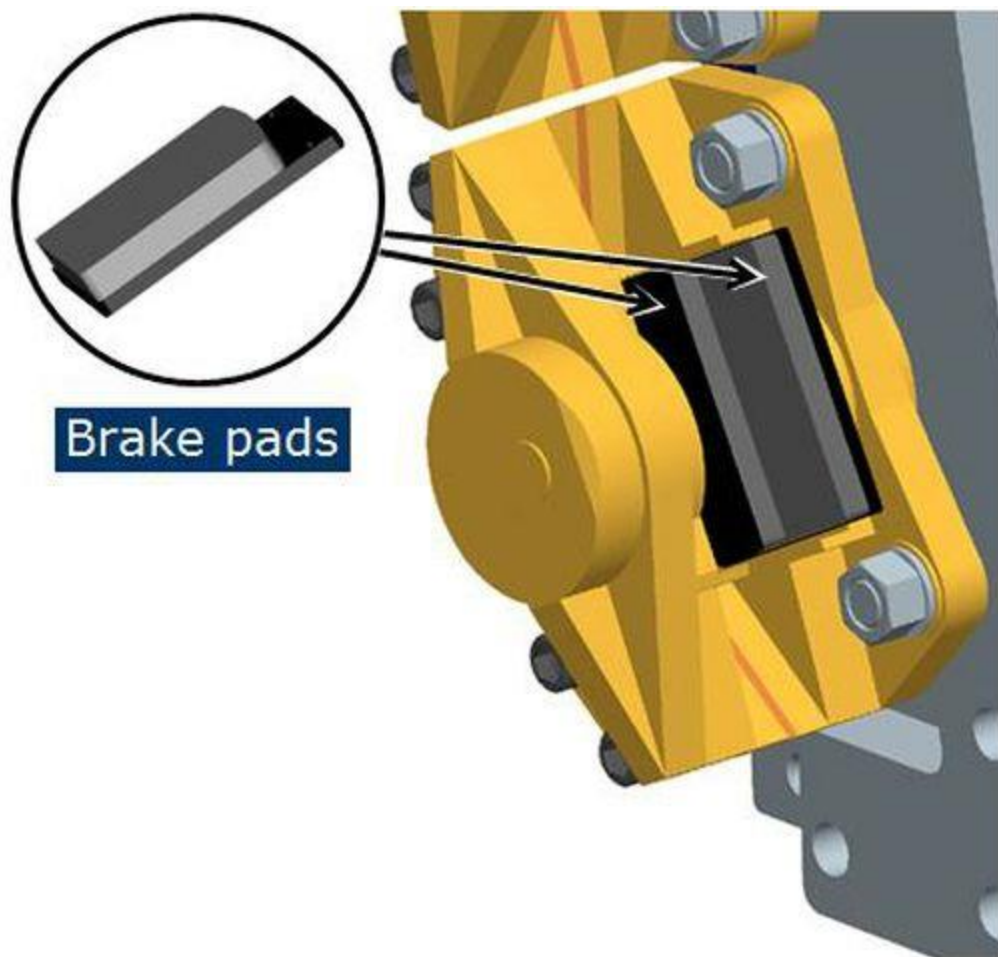
Check the brake pad thickness as per I&S data DMS: [5003033](#)

If the brake pad thickness is less than Vestas requirements, replace with new pads and check the disc thickness.

Check for any external oil leak around the hydraulic system and brake disc surface.

Check hose connections and hoses. Ensure there is no oil leak in the system.

Service Instruction Brembo Active Disc Brake: DMS [1001363](#)



Part number for Brembo caliper:

[60099850](#) - BRAKE CALIBRE BREMBO P75B

Part number for brake pads:

[60100201](#) - BRAKE PADS, SBS C-023



Note:

If brake pads are worn-out check battery backup healthiness. Refer to alarm “686” for checking of battery backup system.

Check oil level (with system pressurized and brake applied oil should be visible in oil window)



Replace the defective pump and coils

Does this solve the problem?

1] Yes

2] No

3] I don't know

- **Explanation**

Check if the hydraulic unit needs [CIM1106](#) upgrade (replacement of coils and pump).

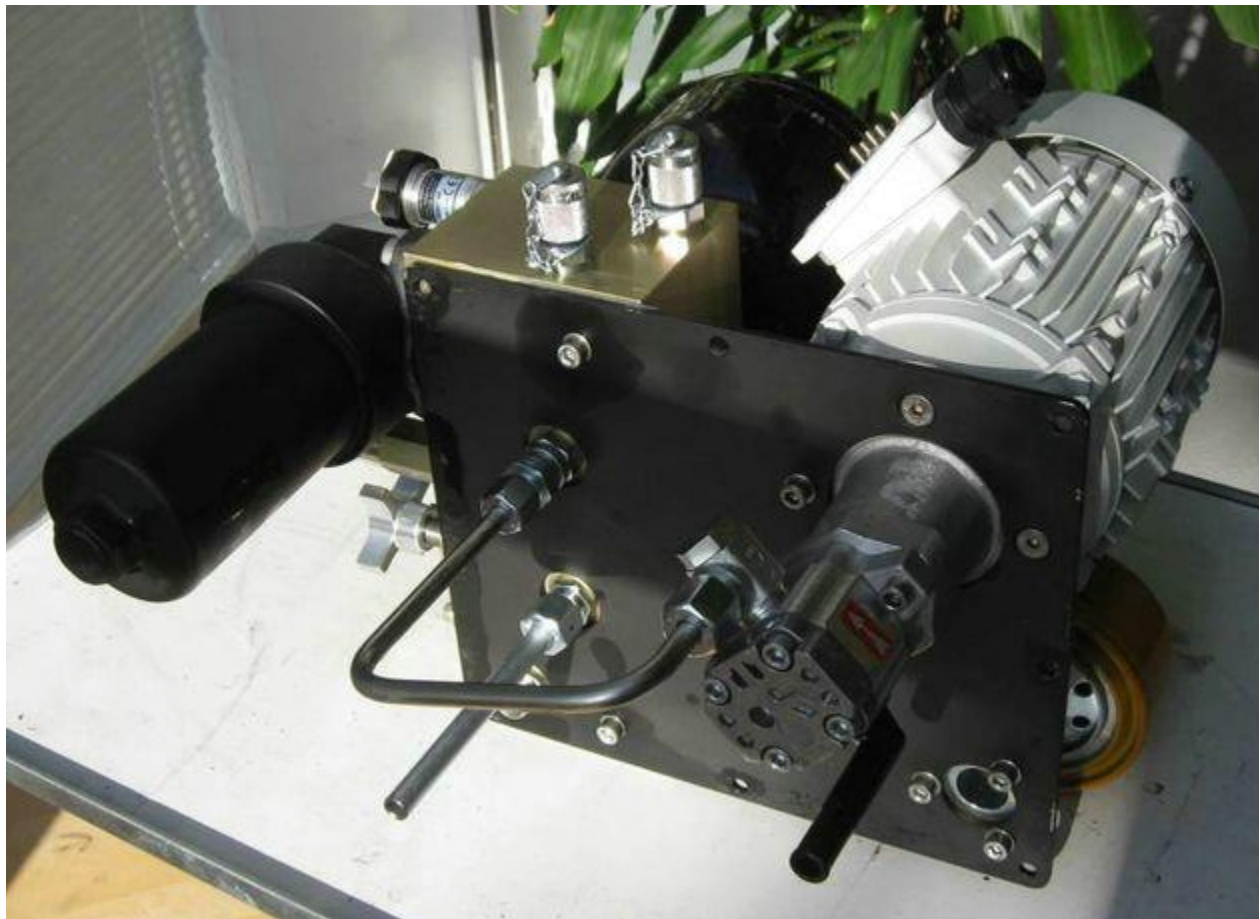
Check the system pressure built-up with in the time limit

If not check the pump

If found hydraulic pump is defect replace it

Item number for hydraulic pump:

[60103470](#) - GEAR PUMP P1 AAn 0050 FL 20-B0



Check the operation.

If found coil is defect replace it

Item number for coil:

[60065454](#) -COIL F/GS02 CCP024 D 24VDC W/C

Check if the hydraulic unit needs [CIM1106](#) upgrade (Replacement of coils and pump) DMS: [0002-2344](#)

Task lists:

10953,10956, 10957

Replace the defective pump and coils

Does this solve the problem?

1] Yes

2] No

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- **Explanation**

Check if the hydraulic unit needs [CIM1106](#) upgrade (replacement of coils and pump).

Check the system pressure built-up with in the time limit

If not check the pump

If found hydraulic pump is defect replace it

Item number for hydraulic pump:

[60103470](#) - GEAR PUMP P1 AAn 0050 FL 20-B0



Check the operation.

If found coil is defect replace it

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[60065454](#) -COIL F/GS02 CCP024 D 24VDC W/C

Check if the hydraulic unit needs [CIM1106](#) upgrade (Replacement of coils and pump) DMS: [0002-2344](#)

Task lists:

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Replace the brake calliper defect or brake pad worn-out

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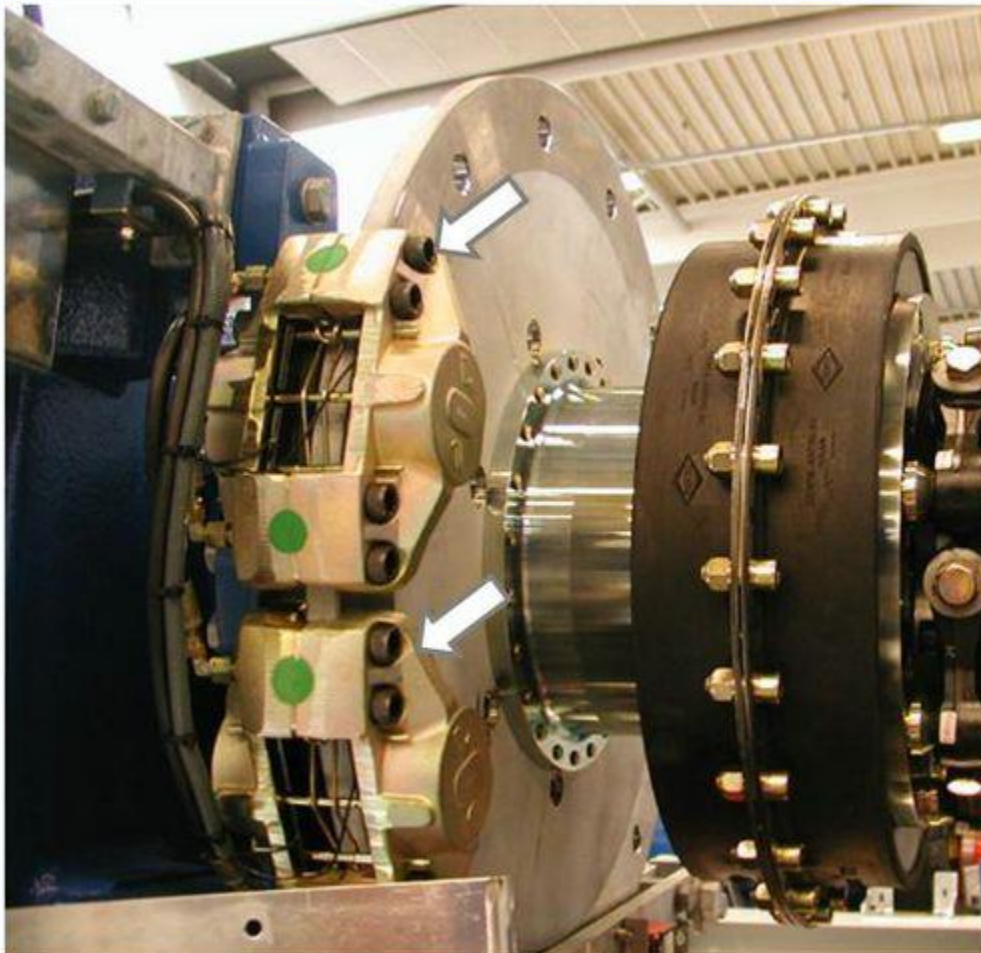
1] Yes

2] No

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- **Explanation**
IN THE NACELLE:

Check the brake calliper for any physical damage or abnormalities.



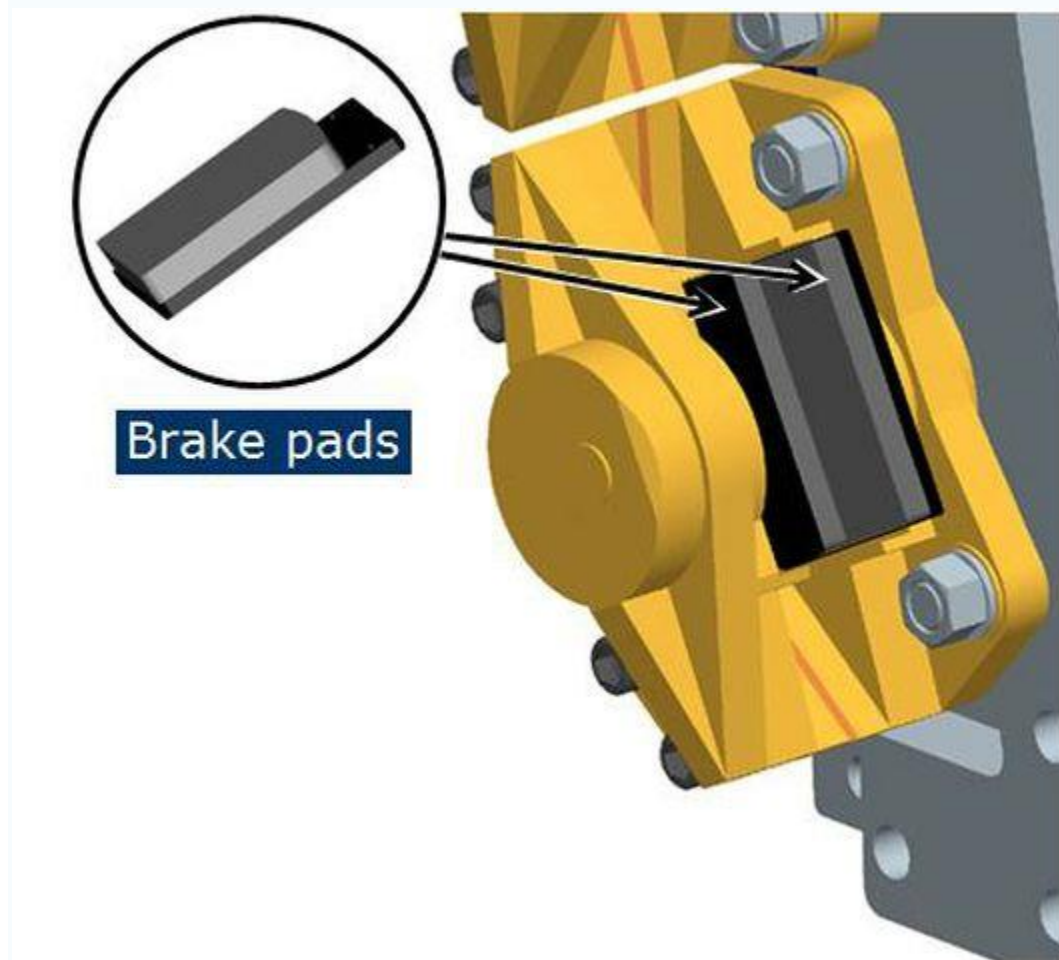
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If the brake pad thickness is less than Vestas requirements, replace with new pads and check the disc thickness.

Check for any external oil leak around the hydraulic system and brake disc surface.

Check hose connections and hoses. Ensure there is no oil leak in the system.

Service Instruction Brembo Active Disc Brake: DMS [1001363](#)



Part number for Brembo caliper:

[60099850](#) - BRAKE CALIBRE BREMBO P75B

Part number for brake pads:

60100201 - BRAKE PADS, SBS C-023



Note:

If brake pads are worn-out check battery backup healthiness. Refer to alarm “686” for checking of battery backup system.

Check oil level (with system pressurized and brake applied oil should be visible in oil window)



Recharge the accumulators or replace the accumulators if defective

Does this solve the problem?

- 1] Yes
- 2] No
- 3] I don't know

Explanation

IN THE NACELLE:

Check pre-charge of accumulator.



Reference DMS [941918](#) Charging of Nitrogen Accumulators for instructions. Reference the following service instructions depending on which type the turbine is equipped with:

DMS [1001384](#) HSS Brake Hydraulics

Item number for Shaft brake Accumulators:		
32bar accumulator	60108210	ACCUMULATOR ADE050-21R9A002
60bar accumulator	60108204	ACCUMULATOR ADE100-21R9A003

