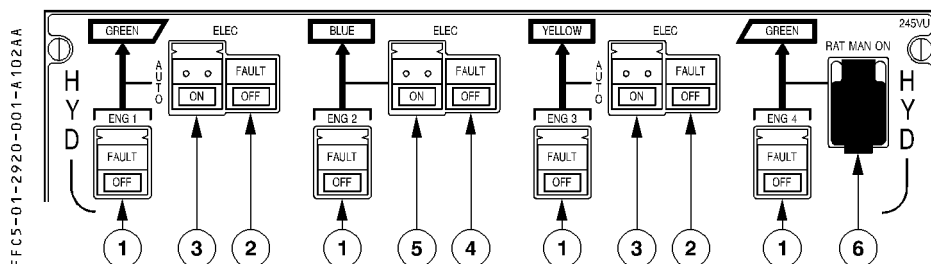


OVERHEAD PANEL



①ENG 1 (2, 3 or 4) PUMP pb (guarded)

- On : The pump pressurizes the system when the engine is running.
- OFF : The pump is depressurized. Hydraulic power generation stops.
- FAULT It : This amber light, and an associated ECAM caution come on, if :
- The reservoir level is low.
 - The reservoir overheats.
 - Reservoir air pressure is low.
 - The pump pressure is low (inhibited on the ground when the engine is stopped).

This light goes off, when the crew selects OFF, except during an overheat. (The light stays on, as long as the overheat lasts).

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② GREEN (or YELLOW) ELEC PUMP pushbutton

- Standby : The pump is controlled by the applicable ELEC PUMP pushbutton.
- OFF : The pump is off.
- FAULT It : This amber light, and an associated ECAM caution come on, if :
- The reservoir level is low, or
 - The reservoir overheats, or
 - Air pressure in the reservoir is low, or
 - The pump delivers low pressure (inhibited on the ground when the engines are stopped), or
 - The pump overheats.

The light goes off when the crew selects OFF, except during an overheat. In case of a reservoir overheat, the fault light stays on, until the overheat stops. In case of an electrical pump overheat, the light stays on, even if the overheat has stopped, and until the system is reset on ground.

Note : *If the yellow/green electric pump overheats, the pump automatically shuts down.*

③ GREEN (or YELLOW) ELEC PUMP ON pushbutton (springloaded-guarded)

- ON : The electric pump is on, provided the ELEC PUMP pushbutton is not selected OFF.
After an electrical power interruption, the pump does not restart (ON light stays OFF).
The ON light comes on blue when the pump is manually-supplied.
- OFF : The pump is off.

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④ BLUE ELEC PUMP pushbutton

- Standby : The pump is controlled by the BLUE ELEC PUMP ON pushbutton.
- OFF : The pump is off.
- FAULT It : This amber light, and an associated ECAM caution come on, if :
- The reservoir level is low, or
 - Air pressure in the reservoir is low, or
 - The reservoir overheats, or
 - Pump pressure is low, or
 - The pump overheats.
- The light goes off when the crew selects OFF, except during an overheat.
- In case of a reservoir overheat, the fault light stays on until the overheat stops. In case of an electrical pump overheat, the light stays on, even if the overheat has stopped, and until the system is reset on ground.

Note : *If the blue electric pump overheats, the pump automatically shuts down.*

⑤ BLUE ELEC PUMP ON pushbutton (springloaded-guarded)

- ON : The electric pump is on, provided the ELEC PUMP pushbutton is not selected OFF.
If the electrical power supply is removed, the pump remains off when electrical power is applied again.
- STBY : The pump is off.

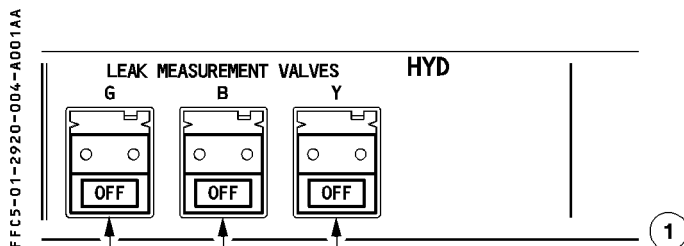
⑥ RAT MAN ON pushbutton

The flight crew may extend the RAT at any time by pressing the RAT MAN ON pushbutton.

Note : *The RAT automatically extends, if :*

- AC NORM buses, and Engines 1 and 4 fail, or
 - Four engines fail, or
 - GREEN + BLUE LO LVL + engine burst is detected*, or
 - Four engine-driven pumps' low pressure.
- * Engine burst is detected when the applicable electrical wiring is cut.

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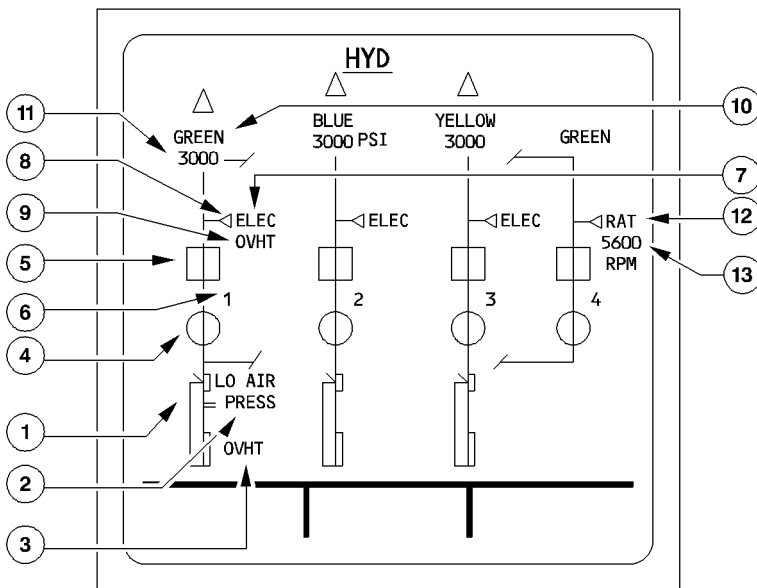


① LEAK MEASUREMENT VALVES pushbutton switches

OFF : The corresponding electrohydraulic valve closes and shuts off hydraulic supply to the primary flight controls.
This function is inhibited when aircraft speed is above 100 knots.
OFF light comes on.

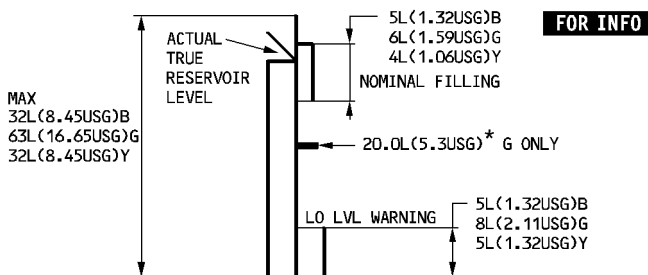
Note : *On the ground the yellow valve is automatically closed when the cargo door is activated (to avoid inadvertent movement of flight control surfaces).
OFF light comes on.*

ECAM HYD PAGE



① Reservoir quantity

This indication is in green, unless the fluid level goes below the warning level, in which case it becomes amber.



* A SINGLE WHITE BAR IS DISPLAYED WHEN ACTUAL FLUID LEVEL IS ABOVE 20L (5.3USG) AND IS REPLACED BY TWO AMBER BARS WHEN BELOW 20L.

Note : The nominal filling range indication is corrected for fluid temperature effect. It is normally green. When temperature information is unavailable, it is no longer corrected and, therefore, the nominal filling range position is fixed. The indication becomes white.

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② Reservoir LO AIR PRESS

It is amber, and an associated caution appears on the ECAM, if the air pressure for the indicated reservoir drops below normal.

③ Reservoir OVHT

It is amber, and an associated caution appears on the ECAM, if the temperature of the returning hydraulic fluid, at the inlet to its reservoir, is above normal.

④ FIRE SHUTOFF VALVE

Crossline	– Amber	:	The valve is fully closed.
In line	– Green	:	The valve is partially closed.

⑤ ENG PUMPS control and low pressure indication

In line	– Green	:	The designated PUMP's pushbutton is on, and hydraulic pressure is normal.
Crossline	– Amber	:	The designated PUMP's pushbutton is off.
“LO”	– Amber	:	The designated PUMP's pushbutton is on, and hydraulic pressure is low.

⑥ PUMP

It is white, and becomes amber when the corresponding engine's N3 is below idle.

⑦ ELEC

It is normally white. It becomes amber if the associated power supply fails, or if the pump is commanded on and does not provide normal pressure.

⑧ ELEC PUMP control

▷ White	:	– The electric pump is not commanded.
▷ Amber	:	– The electric pump is off.
▶ Green	:	– The electric pump is on.
▶ Amber	:	– The electric pump is on and the system has low pressure.

⑨ OVHT

It is amber, if the electric pump for that system overheats. This indication remains displayed on the ECAM, even if the overheat has stopped, and until the system is reset on ground.

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⑩ System label (SYS LO PR sw)

	PRESS > 1750 psi (press increasing)	PRESS < 1450 psi (press decreasing)
△	green	amber
GREEN	white	amber

⑪ System pressure

This legend, normally green, becomes amber when system pressure is below 1450 psi.

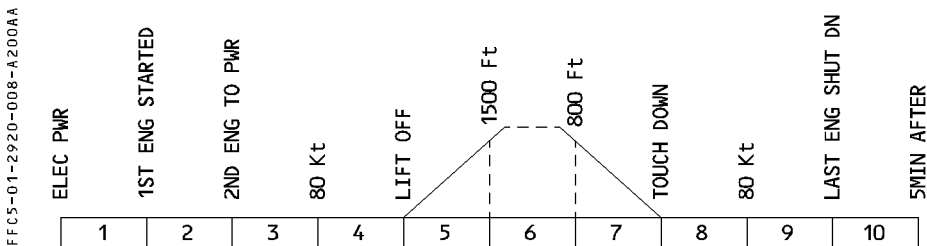
⑫ RAT control

△	RAT	MEANING
White	white	RAT stowed
Full green	white	RAT not stowed and RPM > 3000
White	amber	RAT fully stowed and stowing pressure applied
Full amber	amber	RAT not stowed and RPM < 3000

⑬ RPM

This appears in green when the rotation speed of the RAT is above 100 RPM.

WARNINGS AND CAUTIONS



E / WD: FAILURE TITLE conditions	AURAL WARNING	MASTER LIGHT	SD PAGE CALLED	LOCAL WARNINGS	FLT PHASE INHIB
B + Y SYSLO PR or G+B SYS LO PR or G +Y SYS LOPE system pressure ≤ 1450 psi reset if pressure ≥ 1750 psi	CRC	MASTER WARN	HYD	FAULT It on associated pump(s) pb	4, 5
G (Y)(B) RSVR LO AIR PR reservoir air pressure ≤ 22 psi reset if air pressure ≥ 25 psi	SINGLE CHIME	MASTER CAUT			3, 4, 5, 7, 8
G (Y)(B) RSVR OVHT fluid temperature ≥ 95°C					4, 5 7, 8
G (Y)(B) RSVR LO LVL fluid quantity : < 8L (2.11 USG)(Green) < 5L (1.32 USG)(Blue-Yellow)					3*, 4, 5, 7, 8 * only for G ENG 1 (4)
G ENG 1(4) PUMP LO PR or G ENG 1 + 4 PUMPLOPR or B ENG 2 PUMP LO PR or Y ENG 3 PUMP LO PR or Engine pump pressure ≤ 1450 psi				3, 4, 5, 7, 8	
G (Y)(B) ELEC PUMP FAULT Elec pump LO PR or ovht				NIL	NIL
G (B)(Y) SYS LO PR system pressure ≤ 1450 psi reset if pressure ≥ 1750 psi	3, 4, 5, 7, 8				
RAT FAULT RAT not fully stowed and not running or stowing pressure applied	3, 4, 5, 6 7, 8				
MONITORING FAULT HSMU not racked	NIL	NIL		NIL	3, 4, 5, 7, 8
G RSVR UNDERFILLED on ground reservoir quantity < 20 l if temperature > 0°C or RSVR QTY < quantity function of temperature					3, 4, 5
G SYS LEAK In flight only	SC	MC	HYD		6, 7, 8 1 to 5 7 to 10

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MEMO DISPLAY

HYD ELEC PUMP message appears in green when one of the three electric pumps is running (manually or automatic).

RAT OUT message appears in green if ram air turbine is not fully stowed. It becomes amber during flight phases 1 and 2.