

	OXYGEN FIXED OXYGEN SYSTEM FOR COCKPIT	1.35.20 P 1	
		SEQ 001	REV 12

DESCRIPTION

The cockpit's fixed oxygen system consists of :

- one (or two, as installed) high-pressure cylinder in the left hand lower fuselage
- one (or two, as installed) pressure regulator connected directly to the cylinder that delivers oxygen at a pressure suitable for user.
- two overpressure safety systems to vent oxygen overboard through a safety port if the pressure gets too high
- a supply solenoid valve that allows the crew to shut off the distribution system
- four full-face quick-donning masks stowed in readily accessible boxes adjacent to crew members' seats (one at each seat).
- one (or two, as installed) filling port for external oxygen replenishment.

OPERATION

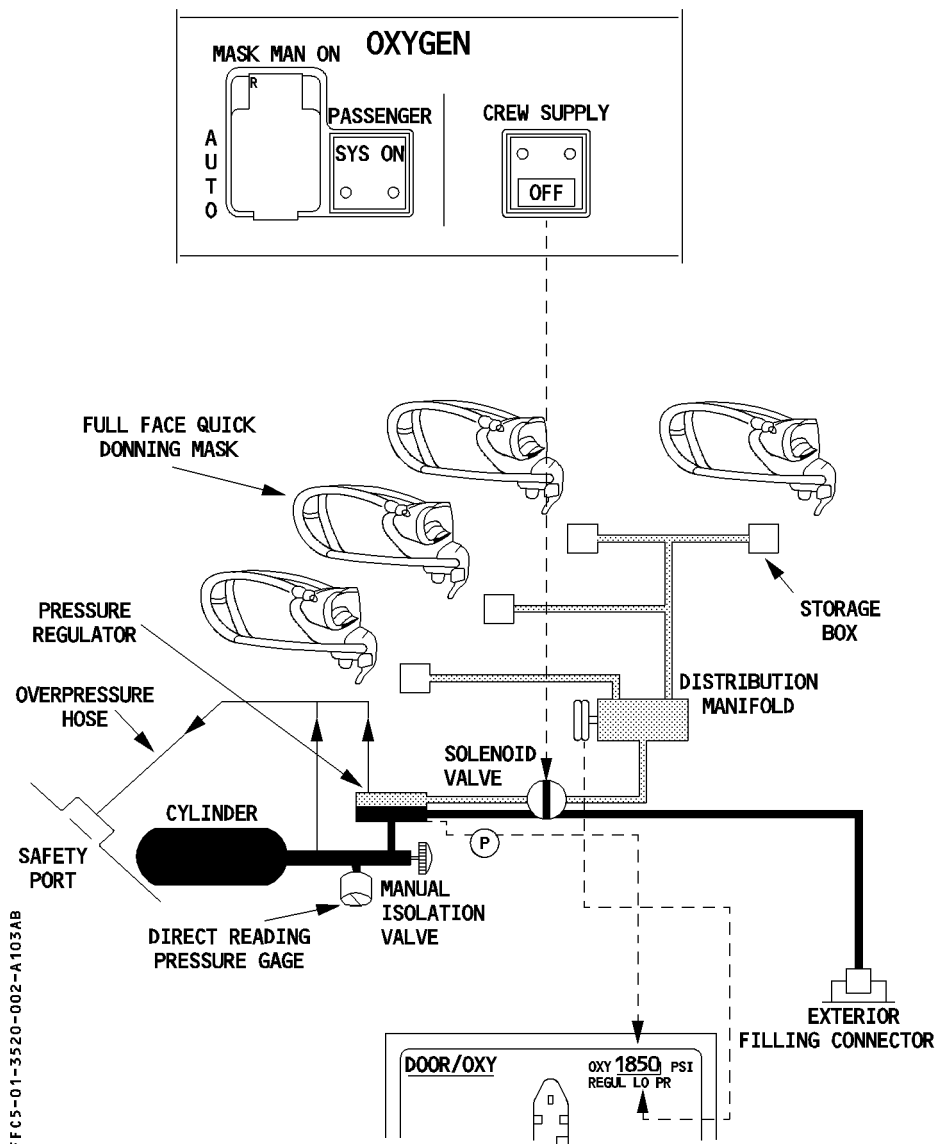
The crew member squeezes the red grips to pull the mask out of its box, and this action causes the mask harness to inflate.

A mask-mounted regulator supplies a mixture of air and oxygen or pure oxygen, or performs emergency pressure control. With the regulator set on NORMAL, the user breathes a mixture of cabin air and oxygen up to the cabin altitude at which the regulator supplies 100 % oxygen. The user can select 100 %, in which case the regulator supplies pure oxygen at all cabin altitudes.

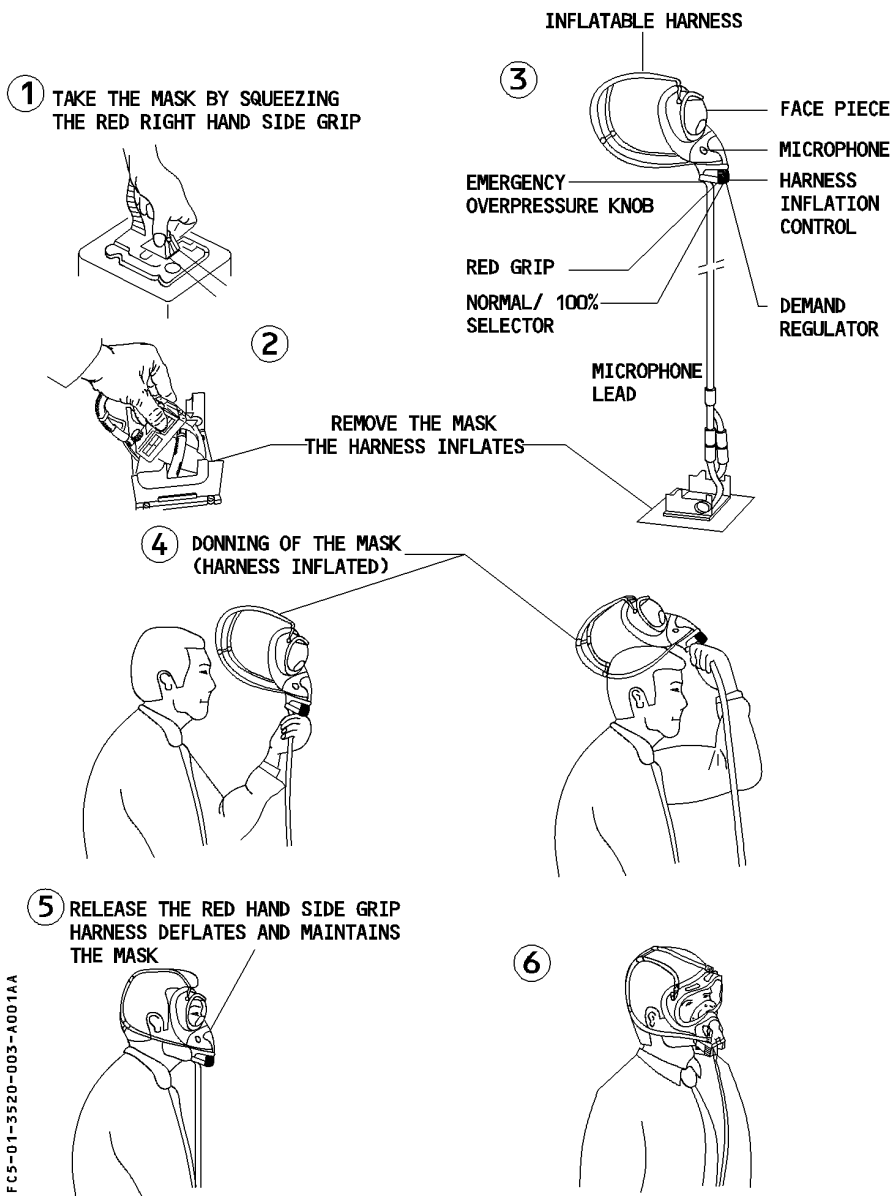
If the situation calls for it, the user can use the emergency overpressure rotating knob and receive pure oxygen at positive pressure.

The storage box contains a microphone lead with a quick-disconnect for connection to the appropriate mask microphone cable.

Note : *Each mask has a removable strip that protects the visor against scratches and which can be removed to recover partial sight in case of ice build-up on the mask subsequent to rapid depressurization.*



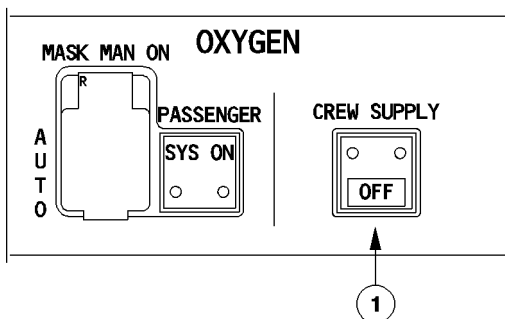
MASK DONNING



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CONTROLS AND INDICATORS

OVERHEAD PANEL



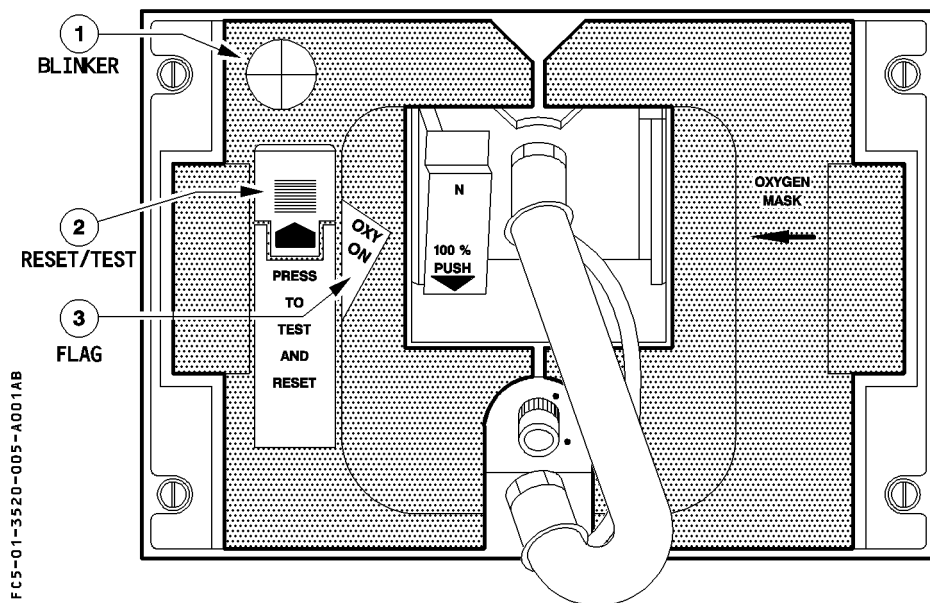
① CREW pb

The switch controls the solenoid valve.

- ON : The valve is open, supplying low pressure oxygen to the masks (normal position in flight).
- OFF : The valve is closed. The white light comes on.

LATERAL CONSOLES

STOWAGE BOX



① Blinker flowmeter (yellow)

This indicator flashes when oxygen is flowing.

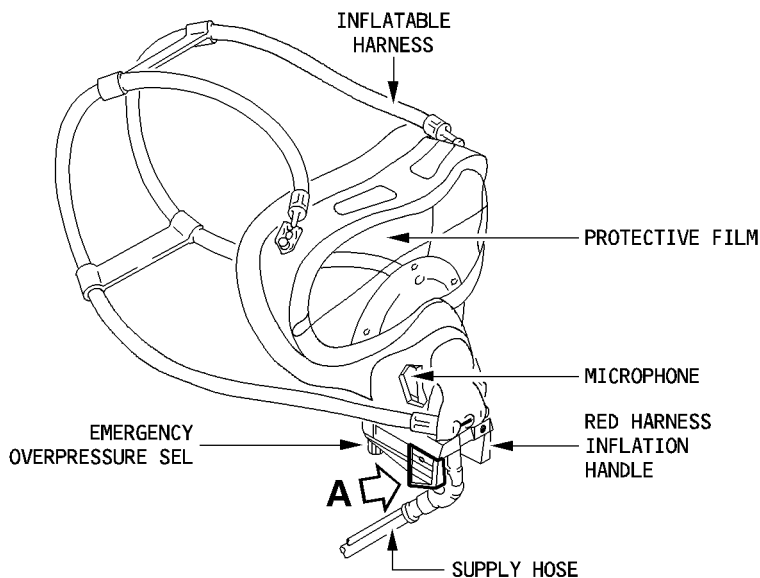
② RESET / TEST control slide

The crewmember presses the slide, and pushes it in the direction of the arrow to test: the operation of the blinker ; the regulator supply ; system sealing downstream of the valve ; and the regulator sealing and system operation. Pressing the RESET control slide, after the oxygen mask has been used, cuts off the oxygen, and the mask microphone.

③ OXY ON flag

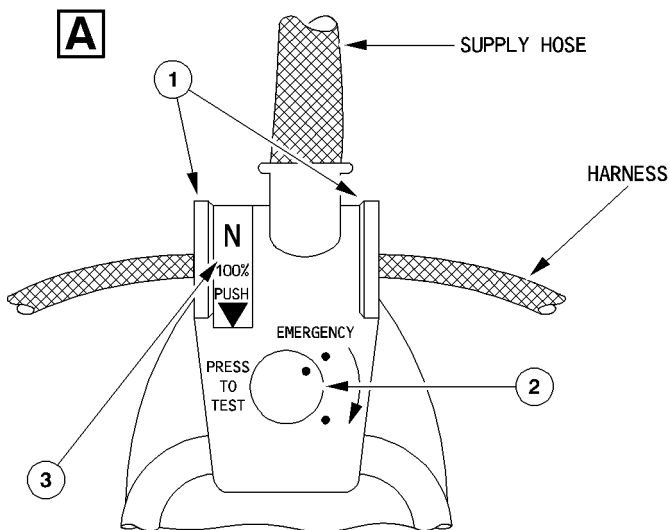
As soon as the left flap door opens, the mask is supplied with the oxygen and, once it closes (mask still supplied with oxygen), the "OXY ON" flag appears.

CREW OXYGEN MASK



FFCS-01-3520-006-A001AA

PRESSURE REGULATOR



FFCS-01-3520-006-B001AA

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①Red grips

Squeezing the righthand side grip unlocks the two-flap door and permits the harness to inflate.

②EMERGENCY pressure selector

Use of this selector creates an overpressure which eliminates condensation and prevents smoke, smell or ashes from entering the mask.

- Pressing this knob generates an overpressure for a few seconds.
- Turning the knob, in the direction of the arrow, generates a permanent overpressure.

Note : Overpressure supply is automatically started, when cabin altitude exceeds 30000 feet.

③N/100 % sel

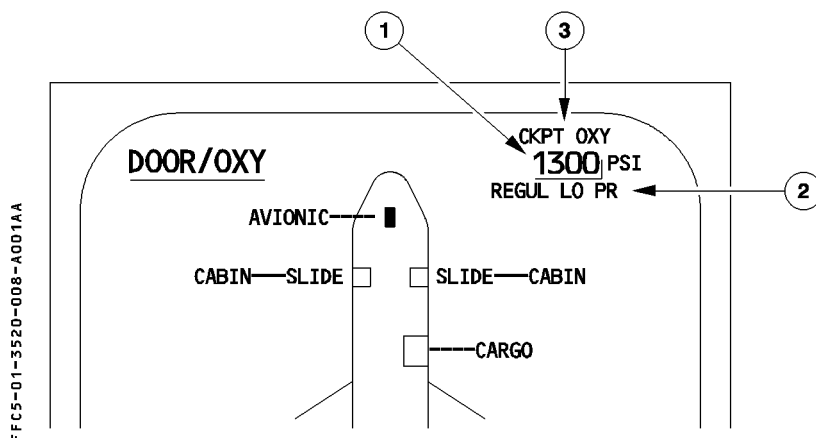
This two-position button is locked down (100 % position) when the crewmember pulls the mask out of the stowage. Pushing up the button from underneath releases it, and it pops up to the N (normal) position. Pressing it again returns it to 100 %.

100 % The mask delivers 100 % oxygen.

N The mask delivers a mixture of air and oxygen, the content of which varies with cabin altitude. When cabin altitude goes above 35000 feet, the air inlet closes and the wearer breathes 100 % oxygen.

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ECAM DOOR/OXY PAGE



① OXY high pressure indication

- Green : When pressure is ≥ 400 psi
Amber : When pressure is < 400 psi

An amber half frame appears when oxygen pressure is < 1500 psi.

In this case, the flight crew must check that the remaining quantity is not below the minimum (Refer to OPERATING LIMITATIONS, 3.01.35).

② REGUL LO PR indication

Appears amber if oxygen pressure on the low-pressure circuit is low (50 psi).

③ CKPT OXY indication

Normally white.

Becomes amber when

- Pressure goes below 400 psi.
- Low oxygen pressure is detected.
- The OXYGEN CREW SUPPLY pushbutton switch on overhead panel is OFF.