

**33.00 CONTENTS****33.10 COCKPIT LIGHTING**

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AIRBUS TRAINING  A330 SIMULATOR FLIGHT CREW OPERATING MANUAL	LIGHTS COCKPIT LIGHTING	1.33.10	P 1
		SEQ 001	REV 03

GENERAL

The flight deck is provided with integral instrument lighting and flood lighting of the instrument panel.

The brightness of all panel lighting can be adjusted.

Work surfaces and side consoles are illuminated by incandescent spot lights and flood lights.

For general cockpit illumination, two dimmable DOME lights are installed.

DESCRIPTION

Instrument and panel integral lighting :

All instruments and panels installed in the cockpit (other than DU) are integrally lit.

The brightness of all instruments and panels can be adjusted.

Annunciator light test and dimming :

The brightness of all the annunciator lights in the flight deck can be changed, depending on the ANN LT TEST / BRT / DIM sw position on the overhead panel.

The lights are dimmed to a fixed level.

An annunciator light test is provided to verify cockpit annunciator lamp operation.

The test is done by selecting TEST position on ANN LT «TEST / BRT / DIM» sw and by visually checking that all lights illuminate.

Dome lights and lighting strips :

See 2 , 3 , 4

Two dome lights and lighting strips supply general cockpit illumination providing shadow free lighting.

Map holder lighting :

See 5 , 6

Map chart holder is provided at the CAPT and F/O stations.

Console and floor lighting :

See 7, 8

Briefcase stowage, side console and floor lighting are provided at the CAPT and F/O stations.

Centre instrument and standby compass :

See 1, 10

The centre instrument is lighted by a set of lights located below the glareshield. The standby compass is provided with integral illumination.

Reading lights :

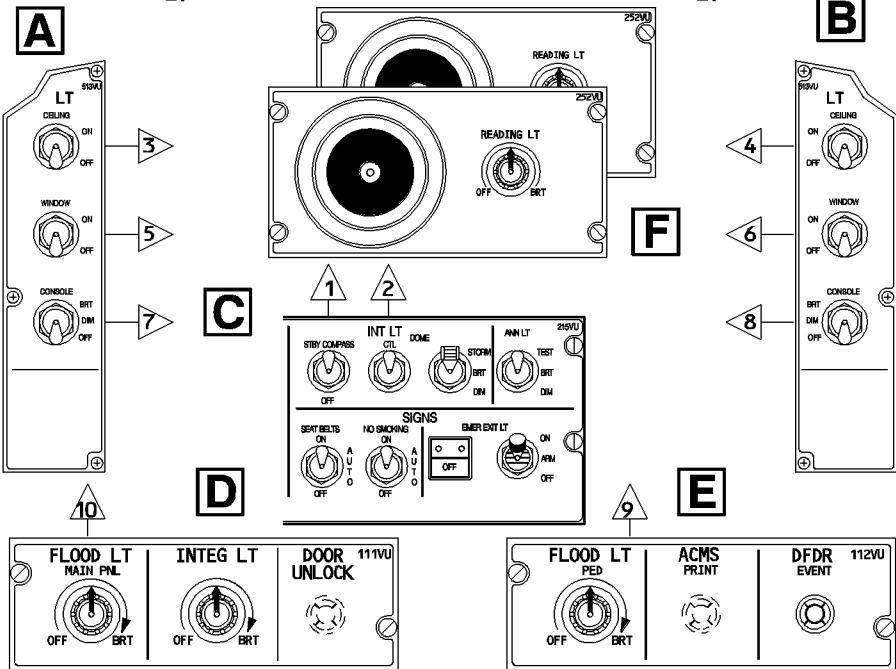
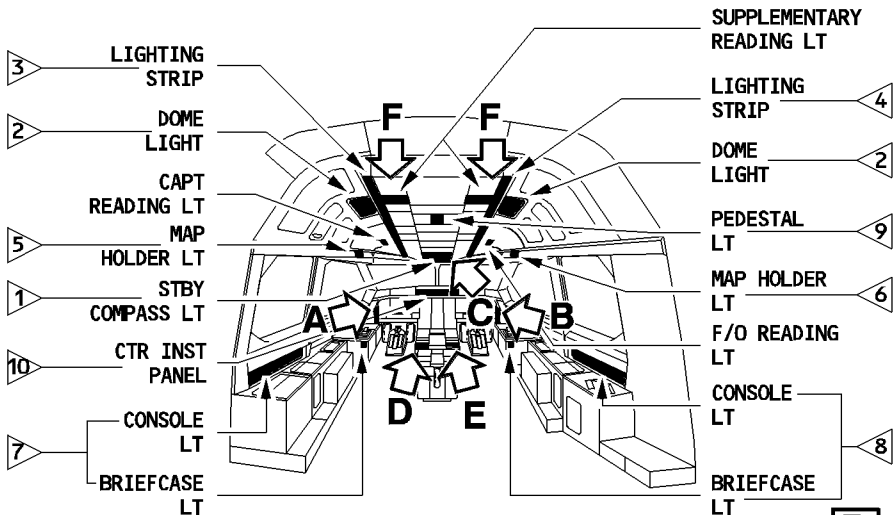
See detail F

Individual reading lights and supplementary reading lights are provided at the CAPT and F/O stations.

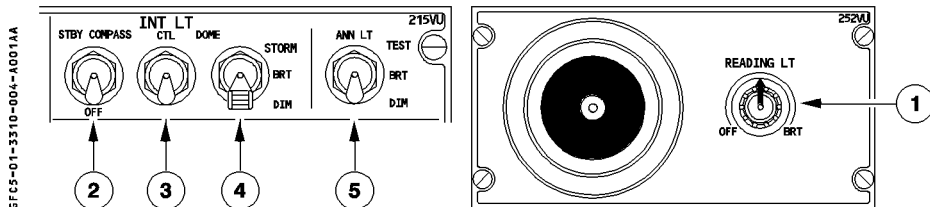
Pedestal lighting :

See 9

Located in the middle of the overhead panel, a flood light provides illumination of the centre pedestal.



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CONTROLS AND INDICATORS**OVERHEAD PANEL****① READING Lt**

Two reading lights are fitted on each side of the overhead panel.

② STBY COMPASS sw

Operation of standby compass integral and seat alignment indicator lighting.

③ CTL sw

There are two two-way switches to control the dome light. The first one is located on the left rear panel close to the cockpit door and the second one labelled CTL is located on the INT LT panel.

R *Note* : On ground, during an accelerate stop, the right dome light automatically illuminates whatever the position of both switches is.

④ DOME sel

STORM : Operation of both dome lights and main instruments panel (flood lights) at high intensity

BRT : Both dome lights on at high intensity (provided they are selected on through the CTL switch or the dome lighting switch on the rear left panel)

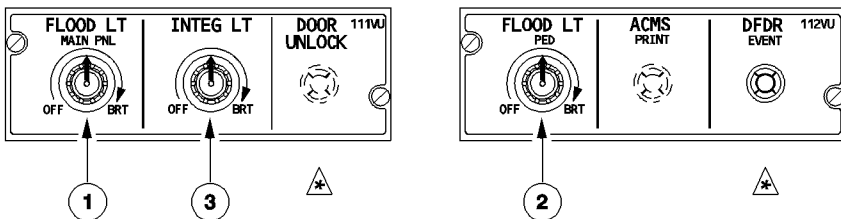
DIM : Both dome lights on at low intensity (provided they are selected on through the CTL switch or the dome lighting switch on the rear left panel)

⑤ ANN LT sel

- TEST : · All flight deck annunciator lights illuminate.
- All Liquid Crystal Displays (LCD) indicate "eight".
- DIM : Annunciator lights power supply voltage is reduced.
- BRT : Normal operation.

PEDESTAL

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① FLOOD LT MAIN PANEL knob

Brightness adjustment of center instrument panel flood lighting.

② FLOOD LT PED knob

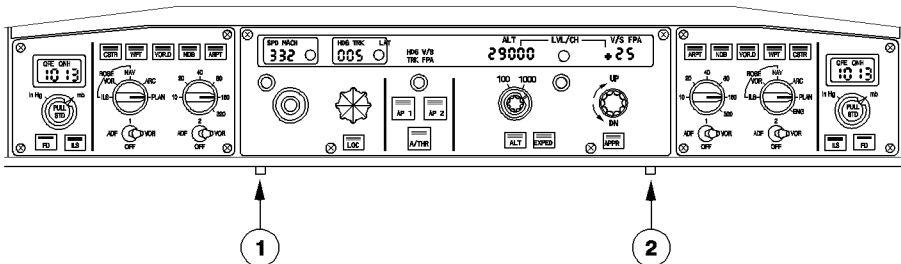
Brightness adjustment of pedestal flood lighting.

③ INTEG LT

Brightness adjustment of all flight deck integral lighting.

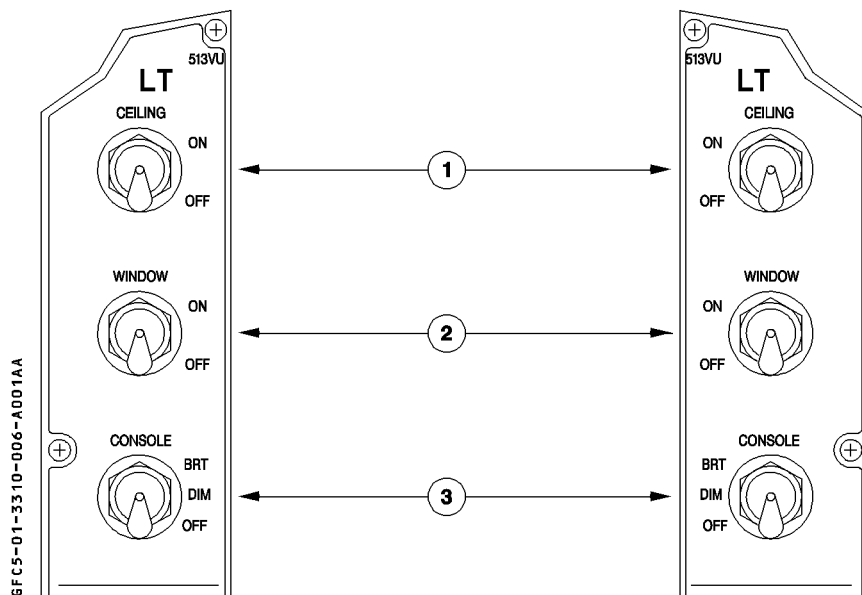
GLAESHIELD

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R ① Rotate potentiometer for glareshield integral lighting and LED on FCU lighting adjustment.

R ② Rotate potentiometer for FCU displays lighting adjustment.

MAIN INST PANEL① CEILING sw

Operation of the two lighting strips located on either side of the overhead panel.

② WINDOW sw

Operation of the two lights located under the side windows for map holder lighting.

③ CONSOLE sw

Permits illumination of the side consoles, briefcases, and floor around the pilots seats (two lighting levels).

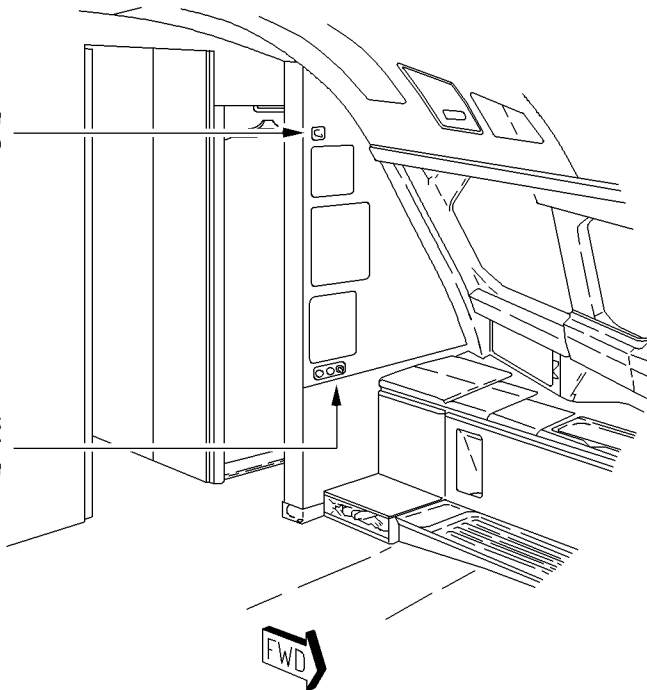


LEFT REAR PANEL

**DOME LIGHTING SW
(REFER TO PAGE 4)**

**AVIONICS
COMPARTMENT
LIGHTING SW**

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**GENERAL**

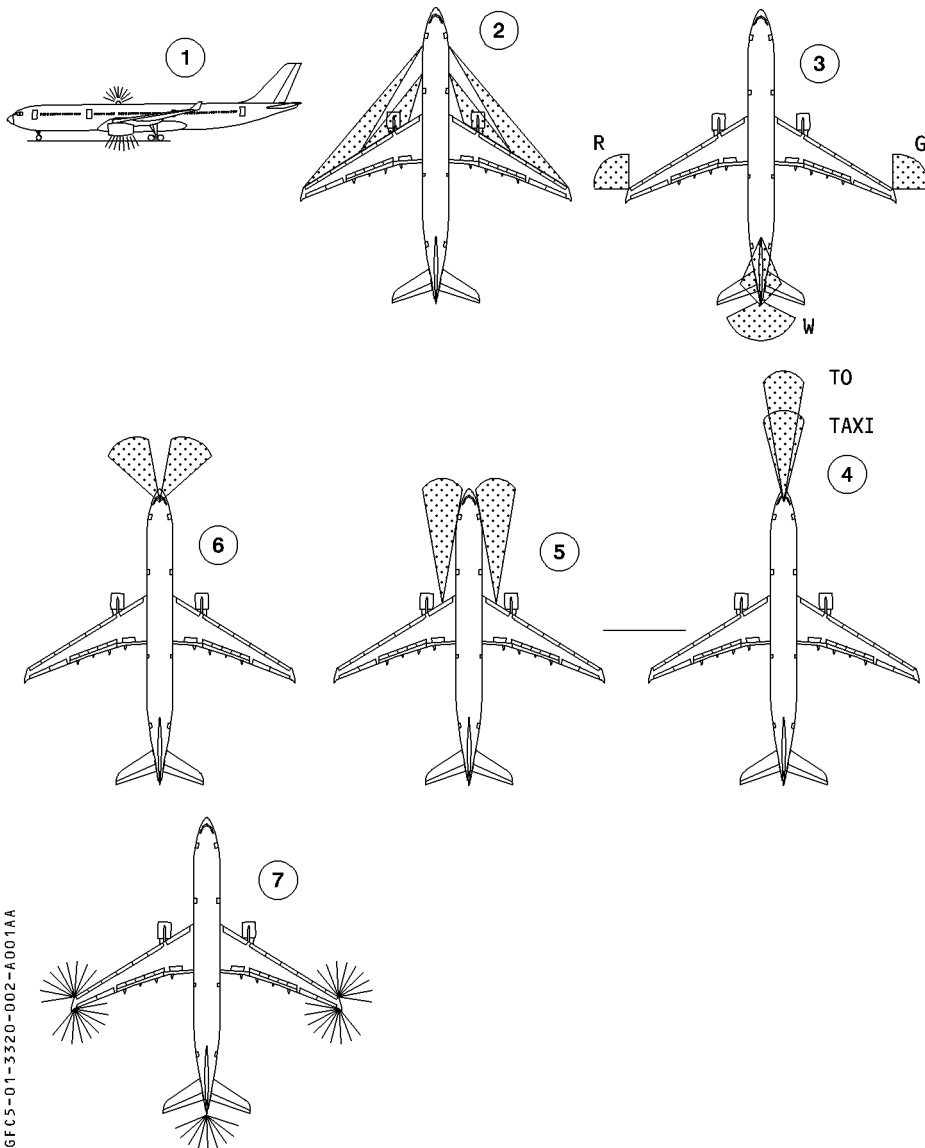
External lights include :

- The navigation lights
- The landing lights
- The runway turn off lights
- The TO and TAXI lts
- The logo lights
- The anticollision lights
- The wing and engine scan lights.

External lighting is controlled by means of switches located on the overhead panel.

CONTROLS AND INDICATORS

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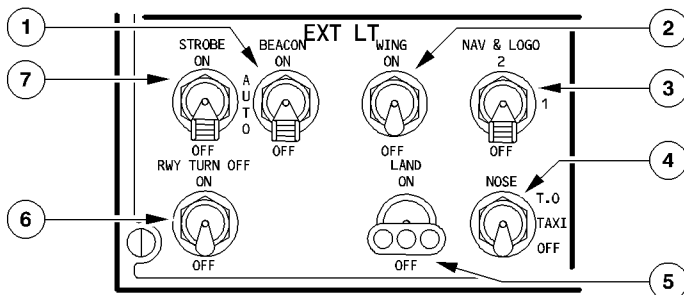
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OVERHEAD PANEL

R

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① BEACON switch

Operates the two flashing red lights. One on top and one on the bottom of the fuselage.

② WING switch

Operates the two single-beam lights on each side of the fuselage, to illuminate the wing leading edge, and engine air intake to detect ice accretion.

③ NAV & LOGO switch

Operates navigation and logo lights.

Dual navigation lights are located at each wing tip, and in the APU tail cone.

Logo lights are installed in the upper surface of each horizontal stabilizer to illuminate the company logo on the vertical stabilizer.

1 : Circuit for first set of navigation lights is activated.

Logo lights are on, when the main gear struts are compressed, or the flaps are extended at 15° or more.

2 : Circuit for second set of navigation lights is activated. Logo lights are on, when the main gear struts are compressed, or the flaps are extended at 15° or more.

OFF : Navigation and logo lights are off.

④ NOSE switch

Operates the taxi and takeoff lights.

T.O : Both taxi and takeoff lights are on.

TAXI : Only the taxi light is on.

OFF : Taxi and takeoff lights are off.

Note : These two lights, attached to the nose gear strut, go off automatically when the landing gear is retracted.

**⑤** LAND sw

Operation of landing lights.

⑥ RWY TURN OFF sw

Operation of runway turn-off light installed on the nose gear strut.

Note : These lights go off automatically when landing gear is retracted.

⑦ STROBE sw ◀

Operation of the two synchronized strobe lights on each wing tip plus one in the tail core.

ON : Strobe lights flash white.

AUTO : Strobe lights are automatically switched on when the shock absorber is not compressed.

OFF : All lights are off.

MEMO DISPLAY

STROBE LT OFF message is displayed in green if the STROBE switch is at OFF in flight.

 AIRBUS TRAINING A330 SIMULATOR FLIGHT CREW OPERATING MANUAL	LIGHTS	1.33.30	P 1
	EMER LIGHTING	SEQ 001	REV 14

GENERAL

- Emergency lighting includes :
- Cabin emergency lighting :
 - Proximity emergency escape path marking system (escape path and exit markers),
 - Overhead emergency lights,
 - EXIT signs.
 - Escape slide lighting.

OPERATION

- The proximity emergency escape path marking, overhead emergency lighting, and EXIT signs come on, if the EMER EXIT LT sel is ON, or if the Purser panels' EMER pushbutton is pressed.
- With the EMER EXIT LT sel at ARM :
 - Cabin emergency lighting comes on automatically, if :
 - * DC ESS BUS fails, or
 - * Normal aircraft electrical power fails.
 - If AC BUS 1 fails, the overhead emergency lights come on automatically, in order to provide minimum cabin lighting.
- In addition, EXIT signs automatically come on when the NO SMOKING SIGNS are on, or in case of excessive cabin altitude.

*Note : The emergency lighting system is supplied by DC ESS BUS and AC BUS 1.
If DC ESS BUS fails, it is supplied by internal batteries (previously charged by the DC ESS BUS).*

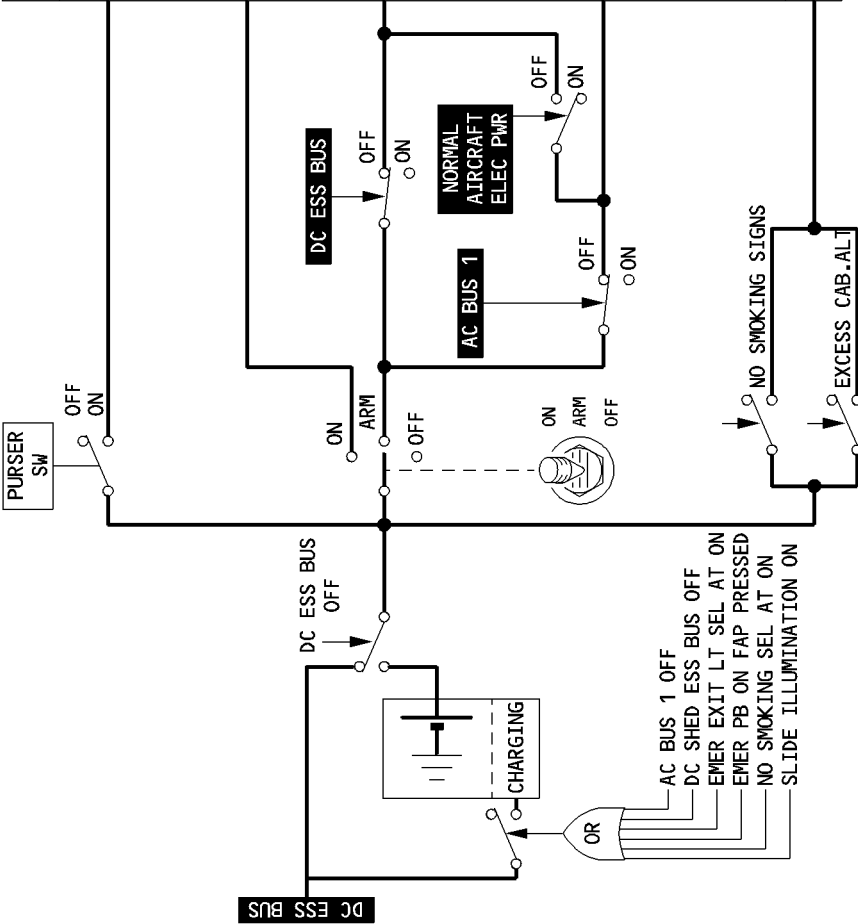
- The escape slides are equipped with an integral lighting system. The escape slide lights come on automatically when the slide is armed and the door is open. They have the same supply as the cabin emergency lighting.

EMERGENCY LIGHTING CONTROL LOGIC

FOR INFO

R

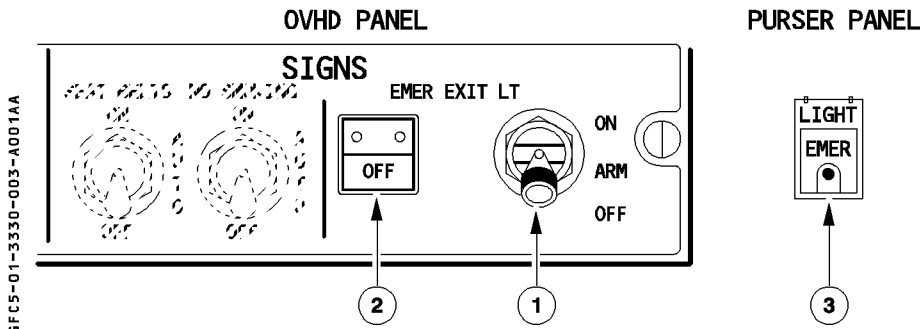
OVERHEAD LIGHTING	PROX. MARKING	EXIT SIGNS
ON	ON	ON
ON	ON	ON
ON	ON	ON
ON	—	—
—	—	ON



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CONTROLS AND INDICATORS



① EMER EXIT LT sel

ON : The cabin emergency lighting illuminate.

OFF : The cabin emergency lighting is off.

ARM : – The cabin emergency lighting automatically illuminates if :

- DC ESS BUS fails, or
- Normal aircraft electrical power fails

– The overhead emergency lights automatically illuminate if AC BUS 1 fails, to provide minimum cabin lighting.

② EMER EXIT LT-OFF It

Comes on amber when the EMER EXIT LT sel is selected OFF.

③ EMER pb sw

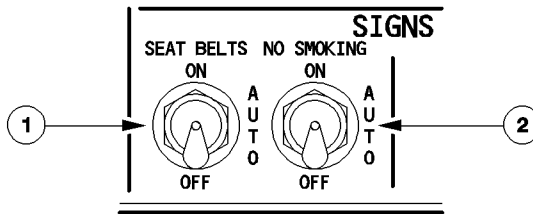
R on : Emergency lights, EXIT signs and proximity emergency escape path marking illuminate.



CONTROLS AND INDICATORS

OVERHEAD PANEL

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① SEAT BELTS sw

- R ON : FASTEN SEAT BELT signs (in cabin) and RETURN TO YOUR SEAT signs (in lavatories) come on associated with low tone chime.
- R AUTO : FASTEN SEAT BELT and RETURN TO YOUR SEAT signs come on associated with low tone chime (depending on CIDS/CAM programming) when slats are extended (position 1, 2, 3 or FULL) or when main landing gear is extended.
- R OFF : Signs are off. Low tone chime sounds (depending on CIDS/CAM programming).

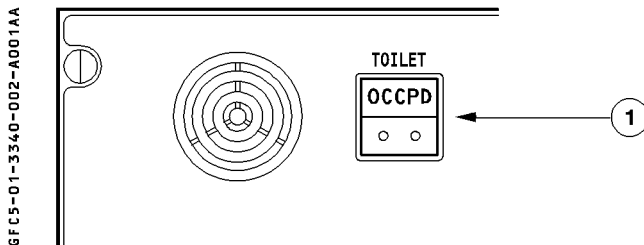
② NO SMOKING sel

- R ON : NO SMOKING and EXIT signs in cabin come on associated with low tone chime.
- R AUTO : NO SMOKING and EXIT signs in cabin come on when landing gear is extended and go off when landing gear is retracted. Low tone chime sounds (depending on CIDS/CAM programming) each time the signs come on or go off.
- R OFF : Signs are off. Low tone chime sounds (depending on CIDS/CAM programming).

- R *Note* : In the event of excessive cabin altitude (if cabin altitude equals EXCESS CAB ALT limit + 1750 feet ; max 14350 feet), the cabin lights come on (depending on the CIDS/CAM programming) and the NO SMOKING, FASTEN SEAT BELT, EXIT signs come on regardless of SEAT BELTS and NO SMOKING selector switches.

MEMO DISPLAY

SEAT BELTS and NO SMOKING messages are displayed in green when the corresponding sign is on.

OVERHEAD PANEL① **TOILET OCCPD** Lt

Illuminates when lavatory located near the forward exit is occupied.

CABIN CONTROLS

NOT APPLICABLE



BUS EQUIPMENT LIST

R

			NORM			EMER ELEC		
			AC	DC	DC BAT	AC ESS	DC ESS	HOT
COCKPIT LIGHTS	LIGHTING STRIPS, MAP HOLDER, CONSOLE	L		DC1				
		R		DC2				
	DOME LT	L		DC GND				
		R					X	
	CTR. INST PANEL			DC1			X	
	STBY COMPASS						X	
	SUPPLEMENTARY READING LT			DC1				
	PEDESTAL LT			DC1				
	CAPT F / O READING LT			DC2				
	INST. PANELS- INTEGRAL LT	LAMPS	AC 1					
		LEDS	DC1					
	ANNUN LIGHTS SUPPLY	SYS 1	AC1					
		SYS 2	AC2					
ESS SYS					X			
ANNUN LIGHTS TEST / DIM			DC2					
EXTERIOR LIGHTS	STROBE		AC2	DC2 (2)				
	LAND	L				SHED	SHED (LAND REC)	
		R	AC2	DC1				
	RWY TURN OFF	L	AC1	DC2				
		R	AC2	DC2				
	NOSE	L	AC1	DC2				
		R	AC2	DC2				
	NAV		AC2					
	BEACON	UPPER	AC1					
		LOWER	AC2					
	WING	L	AC1 + AC2					
R (1)		AC1 + AC2						
LOGO		AC2	DC2					
CABIN EMERGENCY LIGHTING			AC1				X	

- (1) Both AC supplies are required for light operation.
 (2) DC supply is only required for AUTO mode.