# COMMUNICATIONS CONTENTS

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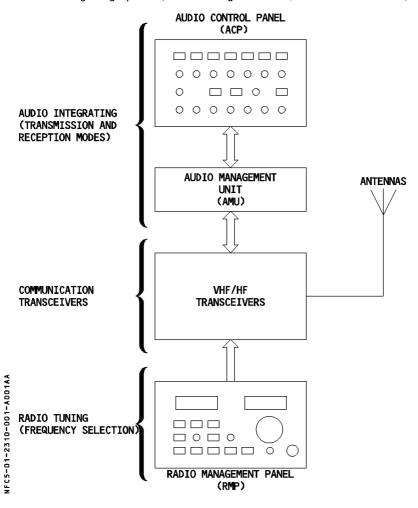
## RADIO COMMUNICATION

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## **GENERAL**

The communications system comprises the following subsystems:

- VHF/HF tranceivers
- Radio tuning systems (Radio Management Panels).
- Audio integrating system (Audio Management Unit, Audio Control Panels).





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RADIO COMMUNICATION

VHF/HF/SELCAL

Either of the two Radio Management Panels (RMPs) (third RMP ⊲) can be used to tune each transceiver.

To transmit, the flight crew uses the Audio Control Panel (ACP) to select a VHF or HF system. The ACP works through the Audio Management Unit (AMU). Each system is connected to the RMPs, for frequency selection, and to the AMU for connection to the audio integrating and SELCAL (selective calling) systems.

#### - VHF

R R

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Two identical VHF communication systems (third VHF system ≤) are installed. Each system has a transceiver in the avionics compartment, and an antenna on the fuselage. Only VHF1 functions in EMER ELEC CONFIG. Its range is from 118.0 to 136.975

MHZ.

VHF has an alarm which indicates if the microphone is stuck ( $\triangleleft$ ). If a microphone is in the emission position for more than 30 seconds, an interrupted tone sounds for 5 seconds, and the emission is turned off. To reactivate the emission, the crew releases the push-to-talk button and presses it again.

## - HF (⊴)

Two identical HF communication systems are optional. Each has a transceiver in the avionics compartment, and a common tuner and antenna in the vertical stabilizer. Its range is from 2.8 to 24 MHZ.

## SELCAL (Selective Calling)

Upon receiving a call code corresponding to that of the aircraft, the SELCAL system aurally and verbally advises the flight crew that a ground station is calling the aircraft. The aural warning is inhibited during takeoff and landing.

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# COMMUNICATIONS RADIO COMMUNICATION

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#### **RADIO TUNING**

#### **DESCRIPTION**

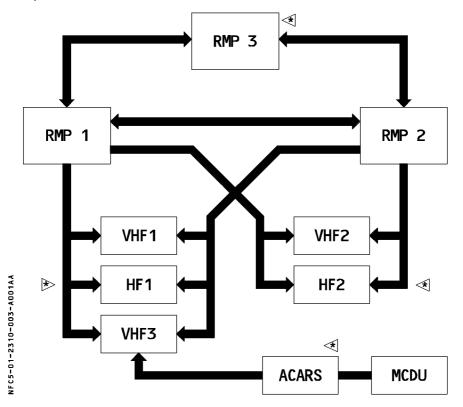
Identical RMPs (Radio Management Panels):

- · Give the flight crew control of all VHF radio communication systems (HF systems <1).
- Back up to FMGCs for controlling radio navigation systems (Refer to 1.34).

Two RMPs are on the center pedestal (and the third is on the overhead panel ⋖).

Each RMP can control any VHF (HF  $\triangleleft$ ) transceiver. RMP1 and RMP2 are connected directly to all VHF (HF  $\triangleleft$ ) transceivers, (whereas RMP3 is connected to them via RMP1 and RMP2  $\triangleleft$ ). RMPs are connected together so that each RMP is updated to the selections made on other RMPs.

Only RMP1 functions in EMER ELEC CONFIG.

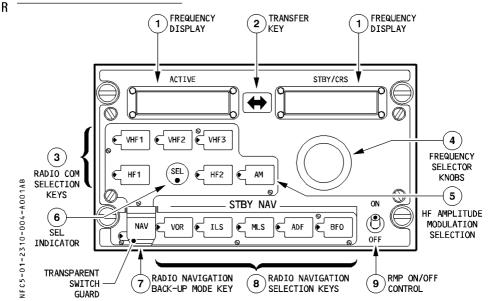




RADIO COMMUNICATION

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**RADIO MANAGEMENT PANEL** 



## 1) Frequency displays

The ACTIVE display window shows the active frequency of the selected radio, which is identified by a green light on the selection key.

The STBY/CRS (standby/course) display window shows a standby frequency that the pilot can activate by pressing the transfer key or change by rotating the tuning knobs. (For a description of the CRS function (see 1.34)).

## (2) Transfer key

Pressing this key moves the active frequency to the standby window and the standby frequency to the active window.

This tunes the selected receiver to the new active frequency.

## (3) Radio com selection keys

When the pilot presses one of these keys:

- · The ACTIVE window displays the frequency set on that radio.
- The STBY/CRS window displays the selected standby frequency or course.
- The selected key displays a green monitor light.

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# COMMUNICATIONS RADIO COMMUNICATION

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## (4) Frequency selector knobs

The pilot uses these concentric knobs to select the STBY frequency or CRS. The outer knob controls whole numbers ; the inner knob controls decimal fractions.

## (5) AM pb sw

If the aircraft has HF radios and the flight crew has selected an HF tranceiver, this switch selects the AM mode. (The default mode is the SSB, or single side-band, mode). This key displays a green monitor light when the AM mode is active.

#### (6) SEL indicator

The SEL indicator glows white on both RMPs when a transceiver normally associated with one RMP is tuned by another :

- · VHF1 tuned by RMP2 or RMP3,
- · VHF2 tuned by RMP1 or RMP3.
- · VHF3, HF1, HF2 (<1) tuned by RMP1 or RMP2.

## (7) NAV pb sw (with transparent switchguard)

The pilot presses this key to be able to select navigation receivers and courses through the RMP. It does not affect the selection of communication radios and their frequencies. (Refer to 1.34 for additional information).

## (8) Radio navigation selection keys

The pilot presses one of these keys to select a navigation radio to control through this RMP. This turns on the green monitor light in the key. (Refer to 1.34 for addition information).

## 9 ON/OFF sw

This switch controls the power supply to the RMP.

Note: RMP3 is able to control VHF and HF transceivers through RMP1 and RMP2 even when they are OFF.



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INTERCOMMUNICATION SYSTEMS

## **GENERAL**

Intercommunications is divided into two main systems:

- the audio management system.
- the cabin intercommunication data system.

#### **AUDIO MANAGEMENT SYSTEM**

The audio management system allows the flight crew to use :

- all the radio communication and radio navigation facilities installed on the aircraft in transmission and reception mode.
- the interphone systems
- the call systems
- the passenger address system

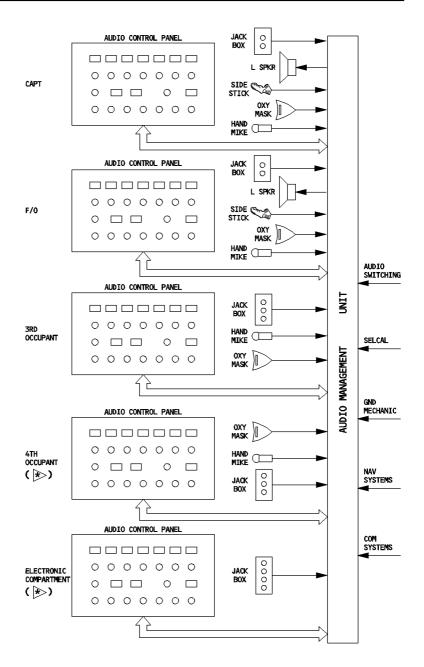
The audio management system includes :

- an audio management unit (AMU)
- three audio control panels (ACPs) (fourth and fifth optional)
- sockets at each station
  - headset jack and boomset connector (hand microphone connector (◄) for pilot, copilot, and third occupant
  - · headset jack for fourth occupant
- one interphone jack at the ground power receptacle
- boomsets for the pilot, copilot, and third occupant, and three hand microphones (fourth  $(\triangleleft)$ )
- three cockpit oxygen mask microphones
- one radio press-to-talk switch on each sidestick
- one SELCAL code selection panel (avionics compartment)
- two cockpit loudspeakers with separate volume controls
- if installed, a jack panel in the electronic compartment that groups the headset jack, service interphone jack, hand mike connector, and boomset
- an audio switching facility

If audio channel 1 or 2 fails due to a failure either in an ACP or the corresponding AMU, the crew can use the AUDIO SWITCHING selector to select the third audio channel.

INTERCOMMUNICATION SYSTEMS

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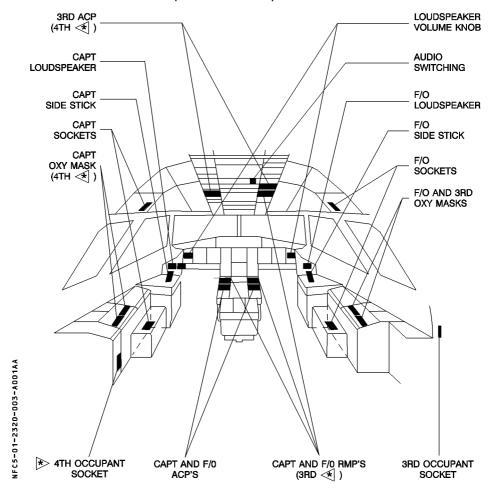
INTERCOMMUNICATION SYSTEMS

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## LOCATION OF COMPONENTS (PILOT'S STATION)



INTERCOMMUNICATION SYSTEMS

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#### CABIN INTERCOMMUNICATION DATA SYSTEM

The Cabin Intercommunication Data System (CIDS) transmits, controls, and processes signals for the following cabin systems:

- cabin and service interphone
- passenger address
- passenger lighted sign
- reading light
- general cabin illumination
- emergency evacuation signalling
- lavatory smoke indication
- passenger entertainment music and video ≤
- escape slide bottle pressure monitoring ◀

The CIDS has the following main components:

- two CIDS directors connected in parallel, one active and the other in standby.
- forward attendant panel for control of the cabin systems.
- programming and test module that allows the system to be reprogrammed after changes are made in the cabin configuration.

  FOR INFO

COCKPIT FUNCTIONS

1

2

DEU A

PASSENGER FUNCTIONS

CABIN ATTN FUNCTIONS

FWD ATTN
PANEL

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R

Decoder/Encoder Units (DEUs) are linked to the two directors.

- Type A units (for passengers) are along each side of the passenger cabin.
   The loudspeakers, lighted signs, call buttons, call lights and general illumination ballast units are divided into small groups each connected to a type A DEU.
- · Type B units (for attendants) are near the exit doors. The area call panels, attendant handsets, slide and door pressure sensors, and attendant indicator panels are connected to type B DEUs.



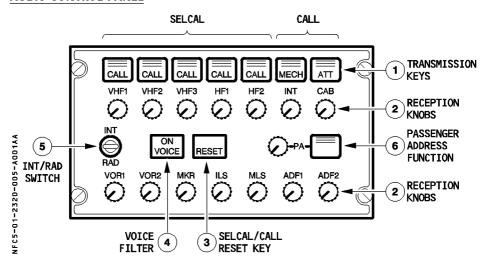
INTERCOMMUNICATION SYSTEMS

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STD 1.3.1

## **CONTROLS**

#### **AUDIO CONTROL PANEL**



## 1) Transmission keys

Pressed: The associated channel is selected for transmission.

The three green lines come on.

The pilot deselects the channel by pressing the pushbutton again, or by

selecting another channel.

CALL : The legend flashes amber (and buzzer sounds) when the SELCAL system

detects a call.

MECH : The legend flashes amber (and buzzer sounds) for a call from the nose

gear bay. The MECH light goes off after 60 seconds, if it is not reset.

: The legend flashes amber (and buzzer sounds) for a call from a cabin

attendant. The ATT light goes off after 60 seconds, if it is not reset.

## Reception knobs

ATT

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These knobs allow the flight crew to select reception channels and to adjust their volume.

 Pressing and releasing the knob (knob out) selects the associated audio reception channel.

The integral white light comes on. Rotating the knob adjusts the volume.

 $-\,$  Pressing the knob (knob stays in) disconnects the associated audio reception channel.

<u>Note</u>: For reception of DME audio navigation signals associated to an ILS or MLS station, the ILS (or LS) pushbutton on the FCU must also be selected.

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## R (3) SELCAL/CALL RESET key

Pressing this key extinguishes CALL, MECH, and ATT lights.

## (4) ON VOICE key

This key allows the flight crew to inhibit the audio navigation signals (VOR, ADF) Pressing this key filters out ident signals and turns on the green ON light.

## (5) INT/RAD sw

This switch operates as a press-to-talk switch for boom mike or oxygen mask mike.

INT : Boom and mask mikes transmit on interphone regardless of

which transmission key is selected. For reception on interphone, the crew member must have INT selected (INT

reception knob out).

Neutral : Reception is normal. Boom and mask mikes do not transmit.

RAD (press and hold): Boom and mask mikes transmit on the radio selected on the

audio control panel.

## (6) Passenger address (PA) function

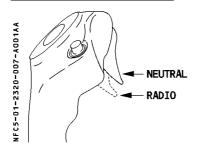
(Refer to PASSENGER ADDRESS 1.23.20, below).



## INTERCOMMUNICATION SYSTEMS

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#### SIDE STICK RADIO SELECTOR



This selector has the same function as the INT/RAD switch on the ACP.

NEUTRAL (spring-loaded): Boom and mask mikes are dead.

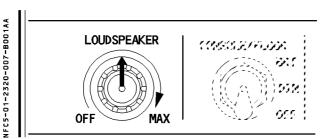
Reception is normal.

RADIO (squeezed) : Boom and mask mikes transmit through the equipment

selected by the transmission key on the ACP.

<u>Note</u>: If RADIO is selected on the side stick when the INT/RAD switch is on INT, the radio function has priority over the interphone function.

#### **LOUDSPEAKER VOLUME KNOB**



This knob adjusts the volume of the loudspeaker for radio communication.

OFF : Loudspeaker does not respond to signals from the aircraft's radio

equipment.

Clockwise rotation: Loudspeaker broadcasts signals from the aircraft's radio

equipment at increasing volume.

Note: This knob does not control the loudness of aural alert and voice messages.



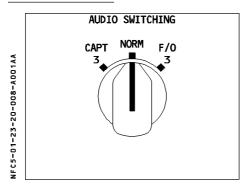
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#### **AUDIO SWITCHING**



The crew can switch to the third ACP if ACP1 or ACP2 fails.

When the crew does this, it takes away the third occupant's access to the acoustic

equipment. AUDIO 3 XFRD appears in green on the ECAM MEMO display.

NORM : Each crew member uses his dedicated communication equipment.

CAPT 3 : The pilot uses his acoustic equipment and the third occupant's ACP.

F/O 3 : The copilot uses his acoustic equipment and the third occupant's ACP.



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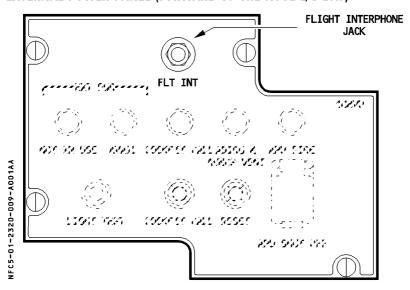
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#### **INTERPHONE SYSTEMS**

#### **FLIGHT INTERPHONE SYSTEM**

This system allows the flight crew members to communicate among themselves and, through a jack on the external power panel, with the ground mechanic.

## EXTERNAL POWER PANEL (FORWARD OF THE NOSE L/G BAY)



#### **COCKPIT OPERATION FOR GROUND MECHANIC COMMUNICATION**

**MECH** INT RECEPTION INT/RAD SW PUSH TO TALK TRANSMISSION KNOB ON ACP ON ACP ON HANDMIKE KEY ON ACP **BOOMSET** INT OR **PRESSED** OUT OR OXYGEN RAD MASK **HANDMIKE PRESSED** OUT **PRESSED** 

R



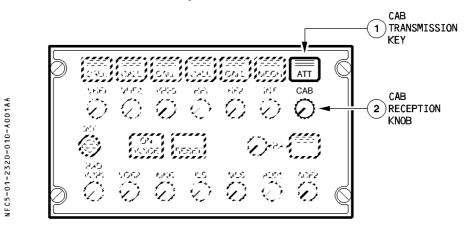
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# COMMUNICATIONS INTERCOMMUNICATION SYSTEMS

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#### CABIN INTERPHONE SYSTEM

The system allows the flight crew to communicate with the flight attendants, and the flight attendants to communicate among themselves.



## 1) CAB transmission key

Pressed : Three green lines come on.

Boom, mask, and hand mikes may be used for cabin

interphone.

## (2) CAB reception knob

Pressed and released: The integral white light comes on.

(knob out) The station receives audio signals from the cabin.

Rotating the knob adjusts the volume.

Pressed : The white light goes out.

(knob in) The cabin interphone is disconnected.

#### COCKPIT OPERATION FOR CABIN COMMUNICATION

	CAB TRANSMISSION KEY ON ACP	CAB RECEPTION KNOB ON ACP	INT/RAD SW ON ACP	PUSH TO TALK ON HANDMIKE
BOOMSET OR OXYGEN MASK	PRESSED	OUT	RAD	ı
HANDMIKE	PRESSED	OUT	-	PRESSED

INTERCOMMUNICATION SYSTEMS

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#### SERVICE INTERPHONE SYSTEM

The system allows for communication between:

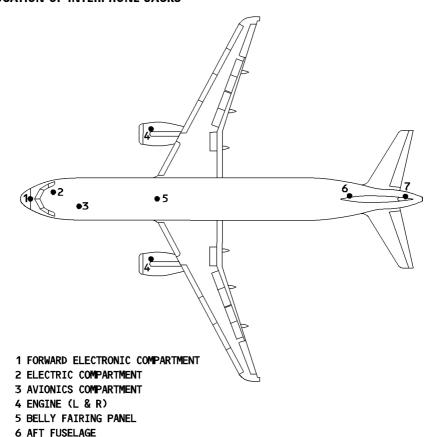
- the flight crew and the service interphone jacks
- the flight attendant stations and the service interphone jacks
- the different service interphone jacks.

The Service Interphone system has:

- seven interphone jacks
- an OVRD switch located on the overhead panel.

The audio lines from the interphone jacks are connected to both CIDS directors.

#### LOCATION OF INTERPHONE JACKS

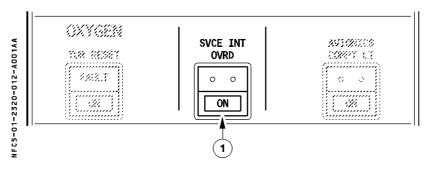


7 NEAR APU BAY

## INTERCOMMUNICATION SYSTEMS

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## **CONTROLS AND INDICATORS AT OVERHEAD PANEL**



## (1) SVCE INT OVRD pb sw

Auto: Ground personnel can communicate with the flight crew by means of the service interphone jacks 10 seconds after the aircraft has landed. The landing gear must be compressed.

ON : Communication is possible when the landing gear is not compressed. The ON light is white.

#### **COCKPIT OPERATION**

R

	CAB TRANSMISSION KEY ON ACP	CAB RECEPTION KNOB ON ACP	INT/RAD SW ON ACP	PUSH TO TALK ON HANDMIKE	SVCE INT OVRD PB SW
BOOMSET	PRESSED	OUT	RAD	-	SEE ABOVE
HANDMIKE	PRESSED	OUT	-	PRESSED	CONDITIONS.



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INTERCOMMUNICATION SYSTEMS

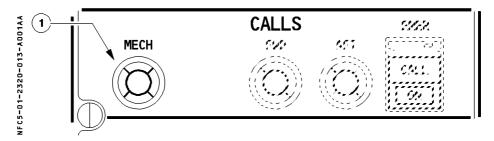
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#### **CALL SYSTEMS**

## **GROUND MECHANIC CALL**

The system allows the flight crew and ground mechanics to communicate with each other.

#### **CONTROLS AND INDICATORS ON OVERHEAD PANEL**



## 1 MECH pb

Pressed (and held): COCKPIT CALL lights up blue on the external power panel in the

nose L/G bav.

An external horn sounds.

Released : COCKPIT CALL remains lighted.

The ground mechanic can extinguish it by pressing the RESET

button on the external power panel. The external horn stops

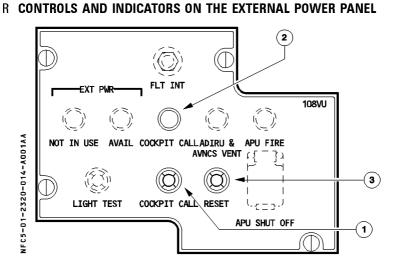
sounding.



## INTERCOMMUNICATION SYSTEMS

COMMUNICATIONS

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## 1) COCKPIT CALL pb

Pressed: This calls the cockpit.

The MECH lights flash amber on the ACPs and a buzzer sounds.

Released: The MECH lights go out after 60 seconds if they are not reset on the

ACPs.

The buzzer stops.

## (2) COCKPIT CALL It

The blue light appears when cockpit calls the ground mechanic. An external horn also sounds.

## (3) RESET pb

R Pressed: The COCKPIT CALL light goes out.



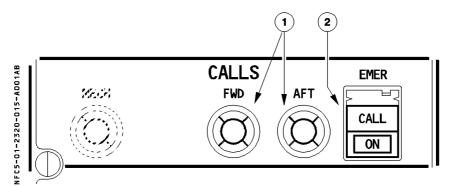
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INTERCOMMUNICATION SYSTEMS

#### **CABIN CALL SYSTEM**

This system is for communication between the cockpit and the cabin.

#### CALL FROM THE COCKPIT



## 1 FWD/AFT pb

Pressed : A red light comes on at the corresponding area call panel.

CAPTAIN CALL appears at the corresponding attendant indication panel

and a green light comes on.

A high-low chime sounds through corresponding loudspeaker.

## 2 EMER pb sw (guarded)

ON : Pink light flashes at all area call panels. EMERGENCY CALL appears on

all attendant indication panels. High-low chime (repeated 3 times)

sounds through all loudspeakers.

ON It : This light flashes white for an emergency call from the cockpit to the

cabin.

CALL It : This light flashes amber for an emergency call from the cockpit to the

cabin.

For an emergency call from the cabin to the cockpit:

- The white ON light and amber CALL light flash.

- The amber ATT lights flash on the audio control panels.

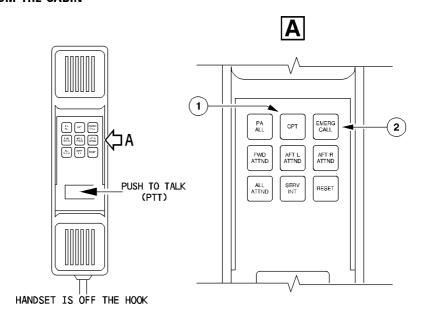
- Three long buzzers sound in the cockpit.

The system resets when the attendant hangs up the relevant handset.

## INTERCOMMUNICATION SYSTEMS

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#### **CALL FROM THE CABIN**



1 CPT

NFC5-01-2320-016-A001AA

Pressed: In the cockpit, the ATT lights flash on the ACP, and a buzzer sounds.

This buzzer is inhibited during takeoff and landing.

In the cabin, "CAPTAIN" appears at the AIP where the CAPT button was pressed.

## R (2) EMER CALL

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R R

R

R R

	R	Pressed	:	In ·	the	cockpit	:
--	---	---------	---	------	-----	---------	---

- The ATT lights flash on the ACP.
- The EMER CALL and EMER ON pushbutton lights flash on the overhead panel.
- A buzzer sounds
  - It is inhibited during takeoff and landing.
  - In the cabin, "EMERGENCY CALL" is displayed on the AIP.



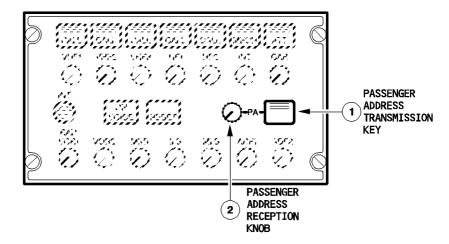
## INTERCOMMUNICATION SYSTEMS

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#### **PASSENGER ADDRESS**

The passenger address allows flight personnel to make announcements to passengers in the cabin through loudspeakers. It can be operated from the cockpit (with ACP or handset) or from the cabin (attendant stations).



## 1) PA transmission key

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Pressed and held : The flight crew may use a boom, mask, or hand mike to

make an announcement. Three green lines come on.

Note: The flight crew may use a cockpit handset to make PA announcements

without action on the ACPs.

## (2) PA reception knob

Pressed and released: The message goes to the loudspeakers and the integral

(knob out) white light comes on.

The flight crew can rotate the knob to adjust the volume.

Pressed : The PA system is disconnected.

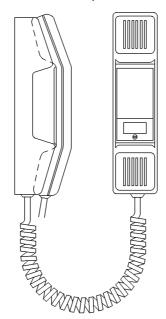
(knob in) The white light goes out.

# COMMUNICATIONS INTERCOMMUNICATION SYSTEMS

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## **Cockpit handset**

The cockpit handset at the bottom of the pedestal is for PA announcements.



## PA from cockpit

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	PA TRANSMISSION KEY ON ACP	PA RECEPTION KNOB ON ACP	PUSH TO TALK ON HANDMIKE	PUSH TO TALK ON HANDSET
BOOMSET OR OXYGEN MASK	PRESSED	OUT		
HANDMIKE	PRESSED	OUT	PRESSED	
HANDSET				PRESSED

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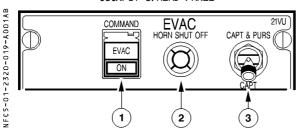
#### COMMUNICATIONS

INTERCOMMUNICATION SYSTEMS

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## **EMER EVAC**

#### COCKPIT O/HEAD PANEL



FWD/AFT ATTENDANT PANEL **EVAC** RESET

## O O EVAC O CMD 5 6

## COMMAND pb

ON : In the cockpit : — EVAC light flashes red.

Horn sounds.

In the cabin : — EVAC lights flash at FWD and AFT attendant panels.

Evacuation tone sounds.

Off : The alert is stopped.

The EVAC light flashes red when the alert is activated.

## (2) HORN SHUT OFF pb

Pressing this button silences the cockpit horn.

## (3) CAPT and PURS/CAPT sw

CAPT and PURS: The alert may either be activated from the cockpit or the cabin.

CAPT : The alert may only be activated from the cockpit.

If one of the cabin CMD pushbuttons is pressed, only the cockpit

horn sounds for 3 seconds.

## (4) CMD pb

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R

Pressing this button activates the alert, if the cockpit switch is at the CAPT & PURS position.

Pressing it again stops the alert.

## (5) RESET pb

Pressing this button silences the EVAC tone.

## (6) EVAC It

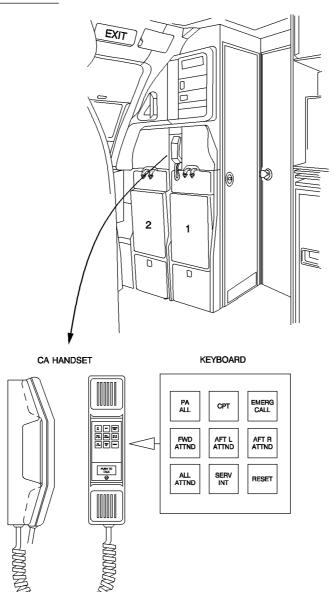
This light flashes when the alert is activated.



# COMMUNICATIONS INTERCOMMUNICATION SYSTEMS

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## **PURSER STATION**



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COCKPIT VOICE RECORDER

SEQ 205

DESCRIPTION

The cockpit voice recorder (CVR) records:

- direct conversations between crew members in the cockpit
- all aural warnings sounded in the cockpit
- communications received and transmitted by radio
- intercommunication conversations between crew members
- announcements transmitted over the passenger address system, if PA reception is selected on the third audio control panel.

Only the last 2 hours of recording are retained.

The CVR system consists of:

- a remote microphone behind the overhead panel.
- a "hot mike" function, which records the crew members voice directly from their microphone, even if the push to talk switch is not activated.
- a crashproof four-track recorder, equipped with an underwater locating beacon, in the aft section of the aircraft
- a control panel on the overhead panel.

It is energized automatically:

- on the ground during the first 5 minutes after the aircraft electrical network is energized
- on the ground with one engine running
- in flight

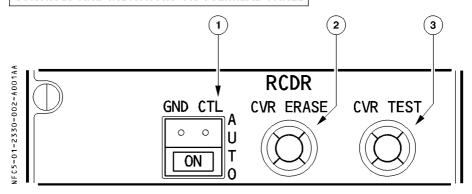
On the ground, it is stopped automatically 5 minutes after the last engine shutdown. On the ground, the crew can energize the CVR manually by pressing the GND CTL pushbutton.



COCKPIT VOICE RECORDER

1.23.30 P 2 SEQ 001 REV 34

## **CONTROLS AND INDICATORS ON OVERHEAD PANEL**



## (1) GND CTL switch (spring-loaded)

ON

: The CVR, DFDR, and QAR ≤ are on.

The ON light comes on blue.

**AUTO** 

: The CVR, DFDR, and QAR < are on, according to the

logic. (See page 1).

## (2) CVR ERASE pushbutton

Pressed for 2 seconds

: This completely erases the tape, if :

- The aircraft is on the ground, and

- The parking brake is on.

## (3) CVR TEST pushbutton

Pressed and held

: This activates the test, if the CVR is on (the GND CTL pushbutton pressed, or during the first 5 minutes after energization of the aircraft electrical network), and the

parking brake is on.

Refer to the FCOM 3.03.06, p. 2 for additional

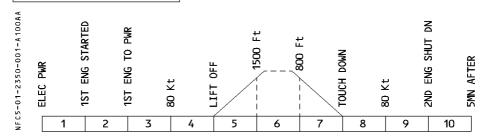
information.



WARNINGS AND CAUTIONS

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#### **WARNINGS AND CAUTIONS**



E / WD: FAILURE TITLE conditions	AURAL WARNING	MASTER LIGHT	SD PAGE CALLED	LOCAL WARNING	FLT PHASE INHIB
CIDS 1 + 2 FAULT  VHF 1(2) (3) EMITTING  HF 1 (2) EMITTING  Transmitter emitting more than 60 s  SATCOM FAULT ( ◀ )	SINGLE CHIME	MASTER CAUTION	NIL	NIL	3,4,5 7,8
ACARS FAULT ( ◀ )	NIL	NIL			

## **MEMO DISPLAY**

This display shows AUDIO 3 XFRD in green, if the AUDIO SWITCHING selector is not on NORM.

If ACARS is installed, the display shows:

- ACARS CALL in green, pulsing, if ACARS has received a message from the ground requesting a voice conversation
- VHF 3 : VOICE in green, if VHF3 is operating in voice mode and ACARS communication is interrupted
- ACARS  $\dot{\text{MSG}}$  in green, pulsing, if ACARS has received a message from the ground
- ACARS STBY in green, if ACARS communications between the aircraft and the ground are lost

In addition, if SATCOM is installed the display shows SATCOM ALERT in green, when a message with a priority level below 4 is received from the ground.



**ELECTRICAL SUPPLY** 

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**BUS EQUIPMENT LIST** 

		NORM				
		AC	DC	AC ESS	DC ESS	нот
	VHF1				Х	
	VHF2		DC2			
	VHF3 ∢		DC1			
	HF1 ⊲			SHED		
	HF2 ⊲	AC2				
	RMP1				Х	
	RMP2		DC2			
DADIO	RMP3 ∢		DC1			
RADIO COMMUNICATIONS	CAPT ACP				Х	
COMMONICATIONS	F/O ACP				Х	
	THIRD ACP		DC1			
	FOURTH ACP ⊲		DC1			
	SELCAL		DC1			
	FLT INTERPHONE				Х	
	CAPT LOUDSPEAKER				Х	
	F/O LOUDSPEAKER		DC2			
	EXT HORN					HOT 2
Cabin Intercomm Data Sys	CIDS1		GND/FLT		Х	
	CIDS2		GND/FLT		Х	
	DEU (A/B)		GND/FLT		Х	
COCKPIT VOICE	CVR CTL				SHED	
RECORDER	CVR			SHED		
ACARS ⊲		AC1				