DCS L-39 ALBATROS

STARTUP CHECKLISTS - provided with explanatory descriptions -



	INTERIC	OR INSPECTIONS	6	
1.	BATTERY SWITCH	ON		
	Keyboard command: The battery switch provides battery or extern aircraft. An emergency DC power source is provided b located in the nose compartment LH side. It is "BATTERY" switch located in the main CB/swi forward cockpit (and by the "NETW." switch i When power is supplied by the battery only, systems are disconnected automatically.	al power supply to the by a 24 V, 28 Ah battery s controlled by the itch panel in the n the aft cockpit). the IFF and RSBN		
2.	EXTERNAL POWER INDICATOR Keyboard command: N/A An external power receptacle for connecting source is located on the fuselage left side.	ILLUMINATES (WHEN EXTERNAL POWER SOURCE ATTACHED) an external power		EXTERNAL POWER INDICATOR LIGHT
LEF	T CONSOLE			
	Keyboard command: The flight suit ventilation controller controls a ventilation flight suit of both fwd and aft pilot placarded "SUIT VENTILATION", is located on cockpit. Rotating the controller CW increases	air flow passing to ts. The controller, the left console in each the air flow.		SUIT VENTILATION FLIGHT SUIT VENTILATION CONTROLLER
2.	OXYGEN SUPPLY	OPEN (CCW)		
	Keyboard command: Each pilot receives his oxygen supply through line, delivered from two cylinders and one sp when the pressure decreases, the lines can be that the oxygen may be used to supply the ot reducer in each circuit provides reduced oxyg diluter demand regulator. Both forward and aft pilots are equipped with	a separate pressure herical bottle. However, e interconnected so ther one. A pressure gen pressure to the n an oxygen mask; the		• OXYGEN •
	Both forward and art pilots are equipped with an oxygen mask; the oxygen system installation in the forward cockpit has a provisions to use an altitude compensating flight suit with hermetized pressure helmet. The pilot breathes ambient air up to flight altitude 2,000 m, from that altitude up to 8,000 m a mixture of air and oxygen. The ratio between air and oxygen depends on the cabin altitude. From flight altitude 8,000 m the pure oxygen is supplied to the mask. The mixture or oxygen is delivered to the mask either in dependence on pilot's breathing or pressurized pure oxygen can be continuously supplied if needed.			HELMET OXYGEN PRESSURE INDICATOR
	The oxygen shut-off valve, labeled "OXYGEN" part of left console in each cockpit. The valve CLOSED and OPEN. The valve, when turned C supply system.	, is installed in the aft has two positions: CW, opens the oxygen		OYYGEN PRESSURE AND FLOW INDICATOR

3.		NODM		
	- DILUTER DEMAND SWITCH			
	Keyboard command:		-	
	Diluter Demand Switch (2)		-	
	The diluter demand switch is located on a	n oxygen control panel	aB	
	and has two positions: "100% O ₂ " and "NC	RM". In the "NORM"		1 2
	position oxygen is supplied by the regulate	or depending on cabin		
	altitude and pilot's needs. In the "100% O_2	position pure oxygen		
	is delivered continuously.			Mar ale
	Emorgoney Owgon Switch (1)			OXYGEN CONTROL PANEL
	The red background switch "EMER" has tw	o positions. "OFF" and		
	"ON". For normal operation the switch is s	et to "OFF". When the		
	pressure regulation in the diluter demand	regulator fails, the		
	switch shall be moved to "ON" position an	d the oxygen is		
	delivered with positive pressure to the oxy	gen mask, with no		
	regulation.			
4.	HELMET VENTILATION	AS REQUIRED		
	Keyboard command:			
	The helmet ventilation system exhausts ca	rbon dioxide from the		
	helmet space and blows on the pilot.			
	When flight is executed with oxygen mask	helmet ventilation		HELMET VENTILATION SWITCH
	switch to OFF. When with pressurized helr	net, ON position.		
	· · ·	· · ·		
5.	FUEL SHUT-OFF LEVER			POSITION OPENED
	Keyboard command:	OUANDED		CLOSED
	A fuel shut-off valve is installed in the fuel	line, leading to the HP		X /
	pump, at the outlet of the fuel tank No. 5.	The valve is		$\mathcal{A} \mathcal{A}$
	mechanically controlled and operated fror	n either cockpit by a	€ S G	
	lever "FUEL SHUT-OFF VALVE". The valve is	s in open position		
	when the lever is fully pushed forward. In	this position the lever		FUEL SHUT-OFF LEVER
6.	PITOT HEAT BUITONS	OFF	-	
	Fach Pitot tube is equipped with a heating	element to prevent		
	ice accumulation. The elements are power	red by 27 V DC and		
	protected by two C/Bs labeled "PITOT TUB	E MAIN" and "PITOT		Ø STAND-BY Ø MAIN Ø
	TUBE STAND-BY", located on the aft CB/switch panel (E) in the			PITOT TUBE HEATING BUTTONS
	forward cockpit.			
7.	FDR SWITCH	OFF		
		GREEN LIGHT		
	Keyboard command:			
	The FDR, located on the LH side of the fuse	elage aft section,		
	records various A/C flight parameters. The	recording is done on		FDR SWITCH
1				
	a solid state EPROM PCB which has a capa	city of 1 MB,		

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0		SET		
ο.	Kauboard command:	351	-	
			-	
	Two band VHE/LIHE radio provides line-of-	-sight		
	communications. The radio does not have	a provision to select		
	individual frequency, but one of 20 preset	channels can be		
	selected. Frequency range is from 118 to 2	L40 MHz at VHF band		
	and from 220 to 389.95 MHz at UHF band	. The UHF/VHF radio		
	control boxes are located on the left conse	ole in each cockpit.		
	They operate in tandem connection being	switched by "RADIO		
	CONTROL" switch in each cockpit's audio	panel. The operating		/ 13 /
	control box is determined by illuminating	channel window.		
	Transmissions are made by pressing one of	f the PTT buttons	O	
	located on the throttle grips in each cockp	it. The radio is		P-SUEM
	powered by 28 V DC and 115 V AC at 400	Hz from the inverter I		•
	or inverter II, and is activated by "RDO" sw	vitch in the main		CONTROL BOX
	CB/panel in the forward cockpit.			
	Preset Channel Selector: The preset chan	nel selector nermits		
	the selection of one of 20 preset frequence	ies. The selected		
	channel number can be read in the channel	el window.		
	Memory Screw: Rotating the screw, the m	nechanical memory		
	card can be removed from the control box	, and the new		
	memory card with different selection can	be inserted.		
9.	AUDIO PANEL	SET	-	
	Keyboard command:		-	
	Radio Control Switch:			
	The switch is labeled "RADIO CONTROL" a	nd permits to change		
	the radio controls. Each movement of the	switch, no matter in		SQUELCH RADIO CONTROL
	command to the other one i.e. the control	l over the radio		SWITCH SWITCH
	can either be "taken" or "handed over". T	he channel window		E C C C C C
	will illuminate to indicate control of the ra	dio box in respective		RADIO CONTROL
	cockpits.	·		3 AUDIO PANEL
	Squelch Switch: The switch in on position	enables squelch		
	circuit which helps to eliminate backgrour	id noises during		
	normal reception. In OFF position the sque	elch circuit is disabled		
	to permit unhampered use of a weak sign	elch circuit is disabled al.		
10.	to permit unhampered use of a weak signation to be a signation of the second signature of the second s	elch circuit is disabled al. SET		
10.	normal reception. In OFF position the sque to permit unhampered use of a weak signs ICS CONTROL BOX Keyboard command:	elch circuit is disabled al. SET	-	
10.	normal reception. In OFF position the squa to permit unhampered use of a weak signs ICS CONTROL BOX Keyboard command: The intercom control box is located in bot	elch circuit is disabled al. SET h cockpits on the		Number Butter
10.	normal reception. In OFF position the squa to permit unhampered use of a weak signs ICS CONTROL BOX Keyboard command: The intercom control box is located in bot left console. Intercom controls are:	elch circuit is disabled al. SET h cockpits on the		
10.	ICS Volume Knob:	elch circuit is disabled al. SET h cockpits on the		
10.	ICS CONTROL BOX Keyboard command: The intercom control box is located in bot left console. Intercom controls are: ICS Volume Knob: The "INTERCOM" volume knob controls th	elch circuit is disabled al. SET h cockpits on the e volume of the		
10.	ICS CONTROL BOX Keyboard command: The intercom control box is located in bot left console. Intercom controls are: ICS Volume Knob: The "INTERCOM" volume knob controls th intercom audio signal to the headset in th	elch circuit is disabled al. SET h cockpits on the e volume of the e respective cockpit.		SINTERCOM MONOS VICLARE SETADOSTO ADF SINDOSTO ADF SINDOSTO ADF SINDOSTO ADF
10.	ICS CONTROL BOX Keyboard command: The intercom control box is located in bot left console. Intercom controls are: ICS Volume Knob: The "INTERCOM" volume knob controls th intercom audio signal to the headset in th The volume increases by rotating the knob	elch circuit is disabled al. SET h cockpits on the he volume of the e respective cockpit. o in the arrow		SINTERCOM MOROS SENAD-EV SENAD-EV JUGH OF SINTERCO SECS CONTROL BOX
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,			-	
	the volume of radio audio signal to the h cockpit. The volume increases by rotatin direction.	eadset in the respective g the knob in the arrow		
	Radio Control Switch: The "STAND-BY/M switch, when switched to the "STAND-BY parallel the headset to ICS amplifier in th switch function is to stand-by the ICS in o intercom amplifier malfunction. When in all controls are deactivated.	MAIN" radio control (" position, connects he next cockpit. The case of the next cockpit h "STAND-BY" position,		
	ADF Audio Switch: The "ADF/OFF" audio to the "ADF" position, enables to listen to	o switch, when switched o the ADF beacon signal		
11.	THROTTLE	FULL AND FREE		5 10 _6
	Keyboard command:			
	5 Intercom Button			7
	6 PTT Button			8
	7. Speed Brakes Switch			
	8. Throttle Friction Pawl			
	9. Finger-lift STOP			FWD THROTTLE GRIP
	10. Target Framing Grip			
12.	PITOT TUBE SELECTOR	MAIN		
	Keyboard command:			·
	The Pitot tube selector lever, located on	the left console in the		STBY
	forward cockpit, is labelled "PITOT TUBE	". It is a manually		TUBE
	operated selector valve with positions m	arked "MAIN" and		MAUN
	"STBY". With the lever at the "MAIN" po	sition, the system is fed		
	by pressure from the RH Pitot tube. "STE	BY" is the position to be		
	selected for the backup (left) system (exe	cept the static pressure		PITOT CONTROLS
	to the cabin pressure regulator which is a	still supplied from the		
			1	
13.	HELMET VISOR HEAT. PANEL	AS REQUIRED	1	
	Keyboard command:			
	When the helmet visor becomes fogged	during flight, it can be		
	electrically heated. The helmet visor hea	ting control panel is		
	iocated on the forward cockpit left consc system is protected by "SEAT/HEI MET" (C/P located on the aft		2 2
	CB/switch papel	L/ B located off the alt		13
	Cb/switch panel.		B	
	Helmet Visor Heating Switch:			
	When in "ON", the visor is automatically	defogged only if		Section 2
	required. The next position will switch of	f the automatic		
	heating.			0)8
	Helmet Visor Quick Heating Button:			
	In case of sudden visor fogging, the "QUI	ick push-button should		HELMET VISOR HEATING CONTROL PANEL
	helmet visor heating			
	nemet visor neuting.			
	Temperature Knob: Turning the knob. th	e current utilized by		
	the visor heating system is increased or o	decreased.		

	Helmet Visor Heating Switch			
	4. Temperature Controller			
	5. Quick Heating Button			
14.	EMERGENCY PARKING BRAKE	FORWARD (APPLY)		
	Keyboard command:			
	PARKING BRAKES		-	
	By moving the "PARKING/EMERG BRAKE" le	ver in the forward		
	cockpit, to the forward position, the parking	brakes are set		
	utilizing the emergency hydraulic circuit.			
	The wheel brakes operate only when a minir	num pressure of 50		
	kg/cm ² is applied to the main circuit. If the m	nain pressure falls		L L
	below this value, the wheel brakes can't be u	used normally and		\mathcal{Q}
	emergency braking is required.			
	EMERGENCY OPERATION:			
	If no pressure is available in the main circuit,	the brakes can still		
	be operated, using the pressure stored in the	e emergency		EMERGENCY/
	accumulator. In this case, however, the brak	es are not applied		PARKING BRAKE CONTROL HANDLE
	by means of the brake lever but by operation	n of the emergency		
	located on the left console in either cocknit	When applying		
	emergency brakes (moving the lever backwa	rds) the pressure 2		
	to 33 kp/cm^2 is derived from the emergency	circuit. In this case,		
	no differential braking is possible, since the h	ydraulic pressure		
	acts simultaneously and equally on both bral	kes and the antiskid		
	system will be by-passed.			
15	INCTRUMENT LICUTE CONTROL			
15.		WHILE		
15.	Keyboard command:	WHILE	-	
15.	Keyboard command: Each instrument on the instrument panel, in	both cockpits, is	 	
15.	Keyboard command: Each instrument on the instrument panel, in equipped with red or white bulbs for indirect	both cockpits, is t illumination. The		
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NOTE

When temperature is below zero degrees of Celsius, the pressure can drop down to 130 $\mbox{kg/cm^2}$

INS	FRUMENT PANEL			
1.	L/G CONTROL LEVER	DOWN		
	Keyboard command:			
	The landing gear operation is executed by lar	nding gear control		
	lever, located on the LH side of instrument pa	anels in both		
	cockpits. In its lower position the landing gea	r is extended		
	(down), in the upper position of the lever the	landing gear is		
	retracted (up). The aft cockpit landing gear co	ontrol lever has an		6
	additional middle neutral position, allowing t	o control landing		L/G CONTROL LEVER
	gear position by fwd cockpit controller.			(((((((((((((((((((((((((((((((((((((((
		NOTE		
	The L/G lever in the aft c	ockpit shall be in neutral	(center) position.	
2.	ACCELEROMETER			
	Keyboard command:	CHECK +IG	-	
	Two independent accelerometers are installe	d on the instrument	-	
	nanels one in each cocknit. In addition to the	instantaneous "σ"		
	pointer, there are two recording pointers, on	e for positive and		
	one for negative "g" loads, which follows the	instantaneous		and a start
	pointer to its maximum attained travel. The r	ecording indicating		
	pointer, thus providing a record of maximum	"g" loads		E 10 F 6 J
	encountered. To reset the recording pointers	to the normal "1 G"		
	position, the button on the lower right side o	f the instrument		
	shall be pressed. The scale of the instrument	is graduated from		ACCELEROMETER
	- 5 to + 10 with the 0 "g" indication at the two	elve o´clock position.		
	Limitations:			
	- "+8" max for the a/c weight up to 4,200 kg			
•	- "-4g" max for the a/c weight up to 4,200 kg			
3.				
	- GTRU UNIT ARRESTMENT LEVER	FIXED	-	
	Keyboard command:			2 6
	"CVPO" position the gure unit free meyomet	lever is set to		
	and the aiming reticle can displace on the op	tical combiner		
	according to flight conditions. In "FIXED" nosi	tion the gyro unit is		
	arrested and the aiming reticle is fixed	tion the gyro unit is		
	1. Gyroscopic Sight 5. Target I	Range Scale		
	2. Optical Combiner 6. Gun Car	mera		GYROSCOPIC SIGHT CONSOLE
	3. Mechanical Sight Control Lever 7. Target	Dimension Selector		
	4. Arrestment Lever 8. Brightne	ess Knob		
4.	AIRSPEED / MACH INDICATOR	CHECK		
	Keyboard command:		-	
	The Mach-IAS-TAS indicator, located on the in	nstrument panel in		
	each cockpit, provides indications for the ind	icated airspeed, true	e	100 mm-sacato *
	airspeed and Mach number. Two pointers (th	e wider for IAS and		
	the thinner for TAS), indicate the airspeed on	the fixed dial. The		
	IAS pointer indicates airspeed from 100 to 1,2	200 km/h while the		
	TAS pointer indicates airspeed from 300 to 1,	200 km/h. The		
	corresponding Mach number is indicated by	means of a yellow		MACH-IAS-TAS INDICATOR
	pointer in a window from 0.5 to 0.9 M. The N	lach meter also		
	incorporates the air speed sensor for automa	itic deployment of		

				1.0.11-L35C-1.217
	the speed brakes at 0.78 \pm 0.02 Mach and illu "M_{MAX"} warning light.	uminating of the		
	Limitations:	t ovtornal stores		
	- 0.8 M (the speedbrakes extend automatica	lly at 0.78 ± 0.02 M)		
5.	ALTIMETER	SET		
	Keyboard command:			
	The altimeter located on the instrument pan	el in each cockpit,		
	indicates aircraft altitude in meters. The two	pointer altimeter	€ <u> </u>	
	has two concentrically mounted pointers coo	led in length and		
	to 20,000 meters in 1,000 meters increment	s and the long outer		
	pointer indicates increments of 100 meters a	and pans of		
	hundreds. The smallest graduation is 10-met	er increments. The	Llo	8
	knob located in the left lower part of the inst	trument provides a		ALTIMETER
	barometric pressure setting from 670 to 790	mm of mercury		
	column.		1	
6.	RADAR ALTIMETER	CHECK		
		INDICATION SET DANGEROUS		
		HEIGHT	-	
	Keyboard command:	soluto boight from 0	-	
	to 750 meters over terrain and water. It cons	sists of a transmitter-		
	receiver, two antennas (one transmitting and	d one receiving) and		
	two height indicators, one in each cockpit.			
	The radio altimeter circuit is switched on by t	the "MRP RV" switch		
	located on the forward cockpit main C/B swi	tch panel and it is		
	powered by 28 V DC and 115 V AC 400Hz Iro	m the inverter i (or		
	HEIGHT INDICATOR:			
	The height indicator display is unevenly grad	uated; height from 0		6
	to 20 meters are graduated in 2 meter increments and from	nents, from 20 to		700 20 20
	in 50 meter increments, hence providing a m	ore detailed read-		
	out when the aircraft is at low heights.			Service 3
	A pointer moves along the scale from 0 (on t	he ground) to		`4
	over 750 m where it is hidden behind a black	scale sector to be		HEIGHT INDICATOR
	exposed as the A/C descends below 750 m. 1	The red flag appears		
	when receiver does not have any signal or w altimeter does not operate	nenever the radio		
	DANGEROUS HEIGHT WARNING:			
	A decision height (DH) knob is located on the	bottom RH corner		
	of each height indicator. By rotating the knol	o, a DH pointer		
	height pointer indicates a height which is equ	ual to or below the		
	height at which the DH pointer is set to, the	"DANGEROUS		
	ALTITUDE" light will illuminate in the respect	ive cockpit on the		
	warning panel accompanied by a time limite	d (7 sec		
	approximately) audio warning to the pilot's h	neadset and a yellow		
	dangerous height warning light on each heig	ht indicator.		



10. VERTICAL VELOCITY INDICATOR ZERO Keyboard command:	
Keyboard command:	
The combined vertical velocity/tum and slip indicator located	
on the instrument panel in each cockpit, indicates the rate of	
climb or descent in meters per second. (The turn and slip	
indicator, even though displaying on the same instrument face, is	
not part of the pressure instruments). The vertical velocity	
indicator scale is graduated from 0 to 80 m/sec. From 0 to 20	10 20
m/sec it is graduated in increments of 2 and from 20 to 80 m/sec	
in increments of 10 meters. The indicator has a 9-second delay.	MC SO
The slip indicator is a mechanical instrument which consists	
of a hall positioned in a tube full of liquid, acting as a pendulum	
and will slide to one side whenever the aircraft is flying an	/I/TURN & SLIP INDICATOR
uncoordinated flight. The turn indicator is a gyro instrument	
which provides a quantitative display of the rate of turn being	
performed. The display limits indicate a "rate 2" turn meaning	
360° turn per minute. The face of the instrument bears an	
example of speed and bank angle which will produce the above	
rate (45°at 350 km/h). The tum indicator gyro unit is powered	
by 36 V AC 400 Hz together with engine instruments.	
11. ADF INDICATOR CHECK	
Keyboard command:	30 3 6
The ADF indicator, one in each cockpit, provides information	27 9
about relative hearing to the tuned station. The pointer rotates	24 РАДИОКОВПАС 12
according signals from the ADF.	
according signals from the ADF.	
according signals from the ADF.	ADF INDICATOR
according signals from the ADF. 12. CLOCK	ADF INDICATOR
according signals from the ADF. 12. CLOCK Keyboard command:	ADF INDICATOR
Image: Control of the control of t	ADF INDICATOR
Image: Control of the control of t	ADF INDICATOR
Image: according signals from the ADF.	ADF INDICATOR
Image: Construct relative beaming to the tailed station. The pointer rotates according signals from the ADF. Image: CLOCK SET Keyboard command: SET 12-hour clocks are installed on the instrument panel in both cockpits. They are hand wound and equipped with two control buttons located on the lower side of the instrument. The total elapsed time available is 5 days. The lower left knob is used when	ADF INDICATOR
Image: Construct relative beaming to the tanked station. The pointer rotates according signals from the ADF. Image: CLOCK SET Keyboard command: SET Image: 12-hour clocks are installed on the instrument panel in both cockpits. They are hand wound and equipped with two control buttons located on the lower side of the instrument. The total elapsed time available is 5 days. The lower left knob is used when turned clockwise to wind the clock and when pulled out, to set	ADF INDICATOR
Image: according signals from the ADF.	ADF INDICATOR
Image: according signals from the ADF.	ADF INDICATOR
Image: according signals from the ADF.	ADF INDICATOR
Image: according signals from the ADF. Image: according signals from the accord and	ADF INDICATOR
Image: second relative beaming to the target station. The pointer rotates according signals from the ADF. Image: second relative beaming to the target station. The pointer rotates according signals from the ADF. Image: second rotation according to the target station. The pointer rotates according signals from the ADF. Image: second rotation according to the target station. The pointer rotates according signals from the ADF. Image: second rotation according to the target station. The pointer rotates according to the ADF. Image: second rotation according to the target station. The pointer rotates according to the target station. The total elapsed time available is 5 days. The lower left knob is used when turned clockwise to wind the clock and when pulled out, to set the clock. Pressing this button against spring pressure will actuate the 12 hour stop watch with minutes and hours (upper scale). A blue flag in the window, situated within this scale, indicates the stop watch is actuated. Pressing this button second time, will stop the elapsed time, a fact which will be indicated	ADF INDICATOR
Image: according signals from the ADF.	ADF INDICATOR
Image: according signals from the ADF. Image: according signals for the signal for	
according signals from the ADF. 12. CLOCK Keyboard command: 12.hour clocks are installed on the instrument panel in both cockpits. They are hand wound and equipped with two control buttons located on the lower side of the instrument. The total elapsed time available is 5 days. The lower left knob is used when turned clockwise to wind the clock and when pulled out, to set the clock. Pressing this button against spring pressure will actuate the 12 hour stop watch with minutes and hours (upper scale). A blue flag in the window, situated within this scale, indicates the stop watch is actuated. Pressing this button second time, will stop the elapsed time, a fact which will be indicated by a blue and white flag in the window. Pressing the button third time will reset the watch to the starting position which will be indicated by a white flag in the window. The button on the lower indicates the stop watch is charter the button on the lower indicates the stop watch be the offer the stop watch be the deviced by a bite offer the stop watch to the starting position which will be indicated by a white flag in the window. The button on the lower indicates the stop watch is the present the stop watch is actuated by a bite offer the stop watch is actuated by a bite offer the stop watch is actuated by a bite offer the stop watch is the present the stop watch is actuated by a bite offer the stop watch is the stop watch is actuated by a bite offer the stop watch is the present the stop watch is actuated by a bite offer the stop watch is actuated by a bite offer the stop watch is actuated by a bite offer the stop watch is actuated by a bite offer the stop watch is actuated by a bite offer the stop watch is actuated by a bite offer the stop watch is actuated by a bite offer the stop watch is actuated by a bite offer the stop watch is actuated by a bite offer the stop watch is actuated by	ADF INDICATOR
Image: according signals from the ADF. Image: according signals for the instrument panel in both cockpits from the two control buttons located on the lower signals button acockpits the watch to the starting position which will be	ADF INDICATOR
Image: Second control of the transferred statistics in the pointer rotated according signals from the ADF. Image: CLOCK SET Keyboard command: SET 12-hour clocks are installed on the instrument panel in both cockpits. They are hand wound and equipped with two control buttons located on the lower side of the instrument. The total elapsed time available is 5 days. The lower left knob is used when turned clockwise to wind the clock and when pulled out, to set the clock. Pressing this button against spring pressure will actuate the 12 hour stop watch with minutes and hours (upper scale). A blue flag in the window, situated within this scale, indicates the stop watch is actuated. Pressing this button second time, will stop the elapsed time, a fact which will be indicated by a blue and white flag in the window. Pressing the button third time will reset the watch to the starting position which will be indicated by a white flag in the window. The button on the lower right, when turned to the left, starts the clock and bring the minutes stop watch (lower 30 minutes scale) into standby mode.	ADF INDICATOR
Image: Second relative or charge or the tables of stations into pointer rotated according signals from the ADF. Image: CLOCK SET Keyboard command: SET 12-hour clocks are installed on the instrument panel in both cockpits. They are hand wound and equipped with two control buttons located on the lower side of the instrument. The total elapsed time available is 5 days. The lower left knob is used when turned clockwise to wind the clock and when pulled out, to set the clock. Pressing this button against spring pressure will actuate the 12 hour stop watch with minutes and hours (upper scale). A blue flag in the window, situated within this scale, indicates the stop watch is actuated. Pressing this button second time, will stop the elapsed time, a fact which will be indicated by a blue and white flag in the window. Pressing the button third time will reset the watch to the starting position which will be indicated by a white flag in the window. The button on the lower right, when turned to the left, starts the clock and bring the minutes stop watch (lower 30 minutes scale) into standby mode. Pressing the same button will then actuate the seconds pointer of the clock transformer with the minutes no inter (20 min) as the state of the state to the starting position with the second spointer of the clock transformer with the minutes no inter (20 min) as the state of the clock transformer with the minutes no inter (20 min) as the state of the clock transformer with the minutes no inter (20 min) as the state of the clock transformer with the minutes no inter (20 min) as the state of the clock transformer with the minutes no inter (20 min) as the state of the clock transformer with the minutes no inter (20 min) as the state of the clock transformer with the minutes no inter (20 min) as the state of the clock torecthere withe the scored spointer of the clock toreche	ADF INDICATOR
Image: according signals from the ADF. Image: according signals from the flow of the instrument. The total elapsed time, a fact which will be indicated by a	ADF INDICATOR
Image: according signals from the ADF. Image: according signals form the flag in the window. Pressing the button find time will reset the watch to the start	ADF INDICATOR
according signals from the ADF. 12. CLOCK SET Keyboard command: 12-hour clocks are installed on the instrument panel in both cockpits. They are hand wound and equipped with two control buttons located on the lower side of the instrument. The total elapsed time available is 5 days. The lower left knob is used when turned clockwise to wind the clock and when pulled out, to set the clock. Pressing this button against spring pressure will actuate the 12 hour stop watch with minutes and hours (upper scale). A blue flag in the window, situated within this scale, indicates the stop watch is actuated. Pressing the button second time, will stop the elapsed time, a fact which will be indicated by a blue and white flag in the window. Pressing the button on the lower right, when turned to the left, starts the clock and bring the minutes stop watch (lower 30 minutes scale) into standby mode. Pressing the same button will then actuate the seconds pointer of the clock together with the minutes pointer of the hands (second pointer of the clock and minutes pointer of the lower scale stop watch). Pressing the button again, will then stop the hands (second pointer of the clock and minutes pointer of the lower scale stop watch). Pressing the button a third time will	ADF INDICATOR
according signals from the ADF. 12. CLOCK SET Keyboard command: 12-hour clocks are installed on the instrument panel in both cockpits. They are hand wound and equipped with two control buttons located on the lower side of the instrument. The total elapsed time available is 5 days. The lower left knob is used when turned clockwise to wind the clock and when pulled out, to set the clock. Pressing this button against spring pressure will actuate the 12 hour stop watch with minutes and hours (upper scale). A blue flag in the window, situated within this scale, indicates the stop watch is actuated. Pressing this button second time, will stop the elapsed time, a fact which will be indicated by a blue and white flag in the window. Pressing the button third time will reset the watch to the starting position which will be indicated by a white flag in the window. The button on the lower right, when turned to the left, starts the clock and bring the minutes stop watch (lower 30 minutes scale) into standby mode. Pressing the same button will then actuate the seconds pointer of the clock together with the minutes pointer (30 min) on the lower stop watch. Pressing the button again, will then stop the hands (second pointer of the clock and minutes pointer of the lower scale stop watch). Pressing the button a third time, will reset the second pointer of the clock and minutes pointer of the lower scale stop watch). Pressing the button a third time, will	ADF INDICATOR

				1.0.11-L39C-1.2 P10
13.	CABIN PRESSURE / ALTIMETER ELEV.	CHECK FIELD ALT. DIFFERENCE ZERO		
	Keyboard command:			
	With the canopies closed, the engine r	running and ECS in		
	operation, the cabin is automatically p	operation, the cabin is automatically pressurized. Up to		
	2.000 m (6,500 feet) a slight positive differential pressure			
	is maintained. From 2.000 m (6,500 feet) and above, the differential pressure increases gradually to achieve a maximum			
	differential pressure at 7,000 m (23,00	00 feet). From		
	7,000 m (23,000 feet) and above, max	. differential pressure		
	is maintained. The cabin pressure is m	aintained by a pressure		
	regulating valve, which controls the ou	utflow of air from the		
	cabin. A cabin pressure safety valve is	utilized to prevent cabin		
	differential from exceeding positive or	negative. pressure limits,		
	in case of malfunction in the pressure	regulating valve.		
	CONTROLS AND INDICATORS:			ралена 2 далена 2
	A cabin pressure indicator, located in t	the forward cockpit		6
	instrument panel, indicates the cabin a	altitude and the differential		CABIN PRESSURE INDICATOR
	pressure between the outside pressur	e and the cabin pressure.		
	Climbing from sea level to 2,000 m (6,	500 ft), the cabin altitude		
	will rise almost together with the A/C	altitude, while the		
	differential pressure will indicate a low	v value of approximately		
	10.03 kp/cm^2 (0.4 psi).	lifforantial processo		
	will increase until it will reach approxi	mately 0.22 to		
	0.25 kn/cm^2 (0.33 nsi) (at 7.000 m/23	000 ft) and thereafter		
	will maintain that differential pressure			
	A "CABIN PRESSURE" warning light illu	minates in both		
	cockpits, should the cabin differential	pressure go beyond		
	the 0.28 kp/cm ² (3.96 psi) max. positiv	, ve, or -0.01 kp/cm ²		
	(-0.14 psi) max. negative (during dive)	allowable differential		
	pressure.			
14.	VOLTAMMETER	EXTERNAL		
		POWER		4030 20-
		VOLTAGE		20 V A 10
	Keyboard command:			10 10
	An instrument that combines the func	tions of a voltmeter and an		
	ammeter.			VOLTAMMETER
15.	ENGINE INSTRUMENTS	CHECK		And the second s
	Keyboard command:			
	RPM INDICATOR:			40
	The rpm indicator provides an indication	on of engine HPC and LPC		
	revolutions per minute in percent. Two	o separate, identical		A H HOCAION
	systems, one for each compressor are	utilized.		3-6
	Each system consists of a tachometer	generator which upon		
	rotation produces AC voltage output a	ind two tachometer		
	indicators, one in each cockpit. The sys	stem is completely self-		EGT INDICATOR
	indicator contains two pointers, and f	iectrical power. The	<u> </u>	
	The pointer with letter Lindicates the	HPC rpm and the pointer		240 80 C
	with letter II indicates the LPC rpm Re	padings range from 0 % to		
	110 % for both pointers.			
				C TRIPLE ENGINE INDICATOR

RPM Limitations:

- HPC RPM: 106.8 ± 1% max

- LPC RPM: 104% max

EGT INDICATOR:

The EGT indicator proves an indication of the Exhaust Gas Temperature measured at the point where combusted gases exit the turbine unit. The system consists of temperature transmitter located on the engine turbine ring and two indicators, one in each cockpit. The temperature transmitter output signal can be connected to only one indicator at the moment. The"EGT IND AFT/FWD" switch, located on the aft cockpit left console provides EGT indication to be displayed either in forward or aft indicator. Readings range from 0 to 900°C.

EGT Limitations:

EGT 645° max on the ground on TAKE UP regime EGT 670° max. in flight without de-icing on EGT 685° max. during engine start-up EGT 690° max. in flight with de-icing on EGT 700° max. in flight above 25,000 ft (8,000 m)

TRIPLE ENGINE INDICATOR:

The triple engine indicator contains three independent indicators:

- Oil pressure indicator

- Oil temperature indicator
- Fuel pressure indicator

Oil Pressure Indicator:

The oil pressure indicator system consists of a pressure transmitter and two indicators, one in each cockpit. The oil pressure is measured behind the high pressure oil pump. The oil pressure indication is displayed on the LH side of the triple engine indicator and its readings range from 0 to 6 kp/cm².

Oil Temperature Indicator:

The oil temperature indicator system consists of a temperature probe and two indicators, one in each cockpit. The oil temperature is measured in the oil tank. The oil temperature indication is displayed on the RH side of the triple engine indicator and its readings range from - 50 to 150°C.

NOTE

The oil temperature indicator in the aft cockpit does not display the actual oil temperature. It is permanently disconnected from the system.

Fuel Pressure Indicator:

The fuel pressure indicator consists of a pressure transmitter and two indicators, one in each cockpit. The fuel pressure is measured in front of the fuel nozzle. The fuel pressure indication is displayed on the top part of the triple engine indicator and its readings range from 0 to 100 kp/cm². The oil and fuel pressure indicator is power supplied from



	the inverter III with 36 V, 400 Hz voltage. The indicator is supplied by the 28 V. The triple e is switched on by "ENGINE" switch, located o	e oil temperature Ingine indicator In the main	
	CB/Switch panel.		
	Limitations: OIL PRESSURE INDICATOR		
	 oil pressure 4.5 kp/cm² max 		
	- under 2 kp/cm ² at zero loads for short time only	/	
	OIL TEMPERATURE INDICATOR		
	- oil temperature from - 40°C min up to 90°C max	(
	- from- 5°C up to 90°C max operation		
	FUEL PRESSURE INDICATOR		
	- Fuel pressure 65 kp/cm ² max		
	ENGINE VIBRATION INDICATOR:	n of the engine main	
	ball-bearing and indicated on the engine vib	ration indicator.	
	Once exceeding the limits (40 mm/sec), an "	ENGINE VIBRATION"	
	warning light will accompany the indication.	Because of the	
	nature of the vibration sensor and the indica	itor, the readings and	
	the warnings are reliable only during a straig	ht and level flight	
	NOTE		
	The engine vibration speed on the ground sr	iould be monitored	
	operation, the vibration level should be obse	erved by the "ENGINE	
	VIBRATION" warning light. The readings of th	ne engine vibration	
	sensor and indicator become erroneous duri	ng aircraft	
	evaluations and aerobatics and therefore sh	ould not be taken	
	into consideration.		
	An engine vibration test button "CHECK VIBF	RATION" is located in	
	the forward cockpit on the LH console. Press	ing the button will	
	move the indicator to over 40 mm/sec and b	ring on the "ENGINE	
	VIBRATION [®] warning light. The engine vibrat	ion indicator is	
16	DIFFUSER AND SUIT TEMP, CONTR.		
		SET TEMPERATURE	
	Keyboard command:	fucor (and to the	
	ventilation flight suit) is controlled from a pa	inel located on the	20 0 но ни соод на со
	instrument right-hand forward console in th	e forward cockpit	
	and is similar in functions and method of op	erating to the cabin	DIFFUSER AND FLIGHT
	air-conditioning control switch and temp cor	ntroller, except for	CONTROL PANEL
	the fact that the temperature via the showe	r automatic temp	
17			VOLUME
17.	DII FUSER	CLOSE	REGULATION
	Keyboard command:		FLOW
	The flow coming out of the vent can he cont	rolled by rotating	DIRECTION
	(smaller) ring for volume regulation	on and the outer	
1	intervente in a server and the regulation.		 U

CENTER PEDESTAL

1.	SIGNAL FLARE BUTTONS	CHECK BASIC		
	Keyboard command:	FUSITION		
	The signal flares are provided to signal the ai	rfield control tower		
	of communication failure and during the communication loss of		A	Image: Constraint of the second secon
	loss or failure in the landing gear. flight contr	ols etc. Four signals		B G Green
	with different colors are housed in a launchir	ng box. located in		© © Yellow
	the RH side of the aft fuselage section. Laund	ching the signal		See
	flares is carried out by pressing the push-but	ton of the respective		S OFF
	color in the forward cockpit only. The aft coc	kpit is not provided	3	
	with signal flares control. The system is prote	ected by the "FLT		SIGNAL FLARES CONTROL PANEL
	RECOR/EKSR-46/KL-39" C/B on the aft CB/sw	vitch panel and		
	switched on by the "IDENT. FLARES" switch lo	ocated on the signal		
	flares control panel.			
2.	ARMAMENT PANEL	ALL OFF		
	Keyboard command:			
	The armament system provides the a/c with	the capability		
	to carry and deliver Air to Air and Air to Grou	ind weapon types.		
	The system includes the capability to jettison	the stores in		
	emergency. The armament system is protect	ed and controlled by		
	and one in the aft cocknit miscellaneous C/B	switch nanel Both		
	C/Bs have to be switched ON to enable the s	vstem operation by		
	the trigger located on the forward cockpit sti	ick grip (except in		
	emergency jettison operation). The stores re	leasing by the		
	trigger is blocked up the a/c speed 310 \pm 15 l	km/h. The a/c has		ANNAMENT FANEL
	two external armament stations, one on each	h wing.		
3.	LOWER INDICATION PANEL TO	ILLUMINATING ACCORDING TO		
	STORES	STORES		
	Keyboard command:			
	Store light (bomb symbol):	ing nulon (homb		
	rocket launcher missile launcher)	ning pyron (bonnb,		
	rocket laanener, missile laanenerj.			
	"EXPLOSIVE" light:			
	Indicates that the arm/safe bombs emergend	cy jettison switch is		
	in ARM position.			
	"A-A MISSILE" light			B ARMAMENT PANEL
	Indicates that the missile is suspended under	the appropriate		
	missile launcher.			
4.	PUS-0 LIGHT	ILLUMINATING		
	Keyboard command:			
	"PUS-0" intervalometer end position light – i	ndicates that the		
	automatic rockets firing system is in its zero	reference position.		
				· · · · · · · · · · · · · · · · · · ·
				ARMAMENT PANEL



RIGHT CONSOLE

1	PRESSURIZATION / ECS			
••	HANDI F	AFT POSITION		3-2
	Keyboard command:			
	After engine start, with the canopy locked ("	CANOPY UNLOCKED"		
	light is extinguished), and the ECS and pressu	rization handle fully		I. OFF
	forward ("AIRCONDIT OFF" light is extinguish	ed). the air-		2. CANOPIES SEALED 3. ECS ON
	conditioning system will supply modulated a	ir according to the		
	air-conditioning mode.	0		PRESSURIZATION LEVER
2		SET		
۷.	Keyboard command:			
	The ADE control box bears the following cont	rols		
	The ADT control box bears the following com	.1015.		
	Tune Indicator (1):			
	The pointer indicates the accuracy of ADF tu	ning. Maximal		
	deflection of the pointer should be set during	g ADF fine tuning.		
	·····	,		
	Volume Knob (2):			
	Turning this knob CW increases the volume of	of signal transferred		
	to pilot headset.			
	ADF Control Switch (3):			
	The control switch provides the possibility to	"take" or "hand		
	over" the ADF control.			
	Mode Switch (4):			
	Positioning the mode switch to "TLF", the ADF receives signals from station with permanent or modulated standard (A2) and			
	from station with permanent or modulated standard (A3) and allows its listening. In the "TLG" position the beat frequency is			
	allows its listening. In the TLG position the	signal (A1 A2)		
	generated to allow listening of identification	Signal (A1, A2).	A	
	Fuction Selector (5):			
	The five-position switch can be switched to o	ne of following		
	positions:	Ũ		3
				ADF CONTROL BOX
	• "OFF" - power supply disconnected,	ADF does not		
	operate			
	 "C AUT" - ADF operates in fully autor 	matic mode. As the		
	aircraft overpasses the outer beacon	, the ADF is		
	automatically re-tuned to preset inne	er beacon		
	frequency.			
	If the aircraft drifts from the approac	h entry sector, i.e.		
	$\pm 30^{\circ}$ from the runway axis, the system	em is automatically		
	re-tuned back to outer beacon frequ	ency to enable to		
	initiate the missed approach procedu	Ire. The ADF		
	automatic re-tuning operates only in	landing gear down		
	position.			
	• "C MAN" - ADE indicator needle auto	matically points to		
	tuned facility however the switching	between outer and		
	inner beacon should be executed ma	nually by means of		
	outer-inner beacon switch located ou	the instrument		
	panel in each cockpit.			

•	"ANT" - ADF system receives omnidirectional antenna	
	signals only. This mode is recommended for tuning a	
	specific beacon.	
٠	"LOOP" - If the automatic beacon tracking function has	
	failed, the direction to the beacon can be found manually	
	by rotating a goniometer. The goniometer is controlled	
	by means of "L/R" three position switch.	
	When the switch is moved from its center neutral	
	position to one of its end position, the goniometer starts	
	to rotate in the respective direction. Accurate beacon	
	direction finding is indicated either by means of less	
	audible beacon identification signal in the pilots headset,	
	or by minimum deflection of the tune indicator pointer.	
L/R Sw	itch (6):	
Moving	the "L/R" switch to one of its end position causes	
rotatin	g of ADF indicator needle. If the function selector is in	
either	CAUT or CIMAN position, the ADF indicator needle	
should	/P" switch releasing to neutral position. This feature	
unified	the ADE operation ability. The payt function of this switch	
ic doce	the ADF operation ability. The next function of this switch	
solocto		
3010010	· <i>j</i> .	
Freque	ncy Control Knobs (7.8.9):	
The AD	F frequencies can be set by means of triple rotary	
switche	es. The two identical knobs are marked "O" for outer	
beacon	frequency tuning (right knobs), and "I" for inner beacon	
(left kn	obs). Turning the outer larger knob selects hundreds of	
kHz, ce	nter toggle knob selects tens of kHz and inner small knob	
change	s units of kHz. Units of kHz are indicated on outer scale	
gradua	ted from I to 10, however this scale is not calibrated and	
shows	the units approximately only. The inner small knob can be	
mainly	used for fine tuning to achieve maximum deflection of	
the tun	e indicator pointer. The window beside the control knob	
indicate	es the selected frequency in kHz.	
Intensi	ty Knob:	
_		
Rotatin	g the knob increases or decreases the ADF control box	
lighting	; intensity.	

			1.0.11 2550 1.2117
3.	AUXILIARY SWITCH PANEL - SEAT UNBLOCKING SWITCH - CABIN HEATING - ENGINE INDICAT. EMERGENCY - ANTI ICING - NAVIGATION LIGHTS - SDU	GUARDED AUTOMATIC OFF OFF AS REQUIRED OFF	
	- RSBN	NAVIGATION	
	Keyboard command:		
	SEAT UNBLOCKING SWITCH: An electrical sequencing system is integrated system to prevent the danger of collision bet canopies or the pilots during ejection. The ele ensures that the pilot who initiates the ejecti forward or aft, will complete his ejection bef ejection commences. If both pilots initiate the the same time, the aft seat will have priority, malfunction occur in the first pilot ejection se causes the sequence to be interrupted and u second pilot ejection will not be initiated sind favour of the first pilot. Therefore an "UNLOG installed in both cockpits to overcome such a override the blocking effect by disabling the	I in the ejection ween the two ectrical sequencing ion first whether the ore the second pilot e ejection at exactly . Should a equence, which ncompleted, the ce it is blocked in CK EJECT''' switch is a situation and sequencing.	
	CABIN HEATING: Temperature of the air admitted into the calc four-position "CABIN HEATING" control switc console auxiliary switch panel in the forward Temperature control is maintained automati set temperature when the switch is at the "A position. When the switch is at the center (ne automatic control system is deactivated and mixing valve remains fixed in the position at was set to the off position. If the automatic co or if the desired temperature cannot be obta at the "AUTOMATIC" position, the switch ma "HEAT" or "COOL" position temporarily and b the temperature mixing valve is manually he the two extreme positions and deliver either	in is controlled by a ch located on the RH cockpit. cally according to UTOMATIC" eutral) position, the the temperature the time the switch control system fails ined with the switch y be held to the pack to neutral, thus ld in one of hot or cold air.	
	WARNING The manual "HEAT' or "COOL" position shoul bearing in mind that it takes some time for the temperature to actually enter the cockpit and should allow some time before a further man takes place. (Excessive hot air with a max of 2 be admitted into the cabin if the switch is he "HEAT' position for a longer period than nece CABIN AIR TEMPERATURE CONTROLLER: The Cabin air temperature controller is locate switch panel on the RH console in the forwar controller functions only when the cabin air temperature	d be used while ne desired air d therefore one nual adjustment 200° C (392° F) may ld at the manual essary.) ed on the auxiliary rd cockpit. The temp conditioning control	

With the temp controller. any temperature between I0° and 25°

C (50 and 77° F) can be selected by the pilot to be maintained automatically by the system.

ENGINE INDICAT. EMERGENCY:

The indication of the inverter III failure will be recognized by the "INV. 3 x 36 V FAIL" caution light illumination. To restore the power, the triple engine indicator (oil and pressure indicator), fuel indicator, turn indicator and longitudinal trim indicator can be connected to the inverter IV by "ENGINE INDICAT. EMERG" switch, located on auxiliary switch panel in the fwd cockpit left console.

ANTI ICING:

The "ANTI-ICING" de-icing switch is located on the RH console auxiliary switch panel in the forward cockpit. It is a three position switch indicating OFF, AUTOMATIC and MANUAL. The system is powered by 115 V AC and protected by "DE-ICING SIGNAL."C/B located on the main CB/switch panel and the two shut-off valves are protected by "DE-ICING AIR SHOWER" C/B located on the aft CB/switch panel.

AUTOMATIC OPERATION:

With the switch set to the automatic position, the system utilizes the sensor located on the left side of the nose, to detect ice formation on the aircraft. When icing conditions are detected by the sensor, a signal is sent to activate the "icing/snowflakes" caution light on the caution and advisory panel in both cockpits. Together with the actuation of the caution light, a relay is energized that causes both shutoff valves to open, thereby directing the bleed air to the deicing surfaces. Opening of the shut-off valves is indicated by "DE-ICING ON" light on the caution/advisory panel in both cockpits. If there is no other ice indication after heating of the sensor and 20 seconds break, both shut-off valves will close. The system is disabled when the nose wheel is on the ground (WOW switch depressed).

MANUAL OPERATION:

With the switch at the manual position, the operation is not sensor dependent. The switch in "MANUAL" position commands the shut-off valve to open and bleed air is directed to the deicing surfaces. The "DE-ICING ON" light will illuminate in the caution/advisory panel. In manual operation, the nose wheel micro-switch will have no effect on the system operation.

NAVIGATION LIGHTS:

The NAV lights are controlled by two three-position switches, located on the right console auxiliary switch panel in the forward cockpit (position lights control panel "NAVIG. LIGHTS"): - Mode control: Can be selected to flash position "FLICKER", middle OFF or steady "FIXED" position. - Intensity control "BRIGHTNESS": Can be selected to DIM (30%), BRT (60%) or MAX (100%). This switch functions only if the mode control switch is out of OFF position. The NAV lights are powered by 28 V DC and protected by the "NAV. LIGHTS/HAND LAMP" C/B on the Aft CB/

Swich Panel in the forward cockpit.

SDU: The SDU system provides pilot with precision approach capability to 60 m AGL at the runway threshold. The SDU signals are displayed on the ADIs in both cockpits. The SDU system is powered by 28 V DC and 3 x 36 V AC at 400Hz, and protected by the "SDU" circuit breaker on the main CB/switch panel. The system can be switched on by means of "SDU" switch located on the forward cockpit auxiliary switch panel. The pilot switches on the SDU system manually after penetrating area of stable receiving the localizer signal, which is indicated by disappearing of the "K" warning flags. SDU activation is indicated by hidden "K" and "I" warning flags on the RMI.	
NOTE Before the SDU system activation, the bearing pointer should be set at the runway course	
The aircraft can be steered using SDU pointers only when is clearly and unbrokenly receiving the signal of glide slope and localizer beams, which is indicated by both the "K" and "I" warning flags disappearing.	
RSBN: The following controls belong the RSBN system:	
 RSBN mode switch labeled "RSBN". The mode switch has three positions: "LANDING", "NAVIG." and "GLIDE PATH". In the "LANDING" position the aircraft is guided at the landing approach by the glide slope and localizer beams of landing station; in the "NAVIG" position the aircraft location (course and distance to/from the station) is displayed, and in the "GLIDE PATH" position the aircraft is guided during descent at the constructed electronic glide path. 	
 RSBN test button "TESTING". When the button is depressed, the RSBN system should set distance 291.5 ± 3 km at the range indicator and course 117° ± 2° at the RMI. 	
 Identification button "IDENTIF". When the button is depressed the aircraft's symbol at the air traffic controllers display is highlighted. 	
 RSBN control box lighting intensity knob "RSBN LIGHTING" should be used to set suitable RSBN control box lighting intensity. 	

4.	RSBN CONTROL BOX	SET		
	Keyboard command:			
	The RSBN control box is located on the forwa	ard cockpit left		
	console.			
	NAV Channel Selector:			
	Turning the selector sets the NAV channel. T	he selected channel		
	number is displayed in "NAVIGATION" windo	ow.		
	LDG Channel Selector:			
	Turning the selector sets the LDG channel. The selector sets the LDG channel.	ne selected channel		
	number is displayed in "LANDING" window.			
	Distance Switch:			
	The "DISTANCE INITIAL SETTING" switch, onc	e positioned to		
	either side, decrease or increase the distance	e displayed on the		
	RSBN range indicator. Releasing the distance	switch, the new		
	range is set.			
	Course Switch:			
	The "AZIMUTH INITIAL SETTING" switch, or	nce positioned to		
	either side, rotates the HSI's compass card. F	Releasing the switch,		
	the new course is set.			6 7 8 9
	Distance Correction Light:			
	When the green "DISTANCE CORRECTION" lig	ght illuminates, the		
	distance to the station is evaluated with a m	aximum accuracy,		
	which the system is capable in radio touch w	ith station. If the		
	distance correction light does not shine, the	aircraft is beyond		G
	autonomously with lower accuracy.	ed by the system		RSBN CONTROL BOX
	Course Correction Light			
	When the green "AZIMUTH CORRECTION" lig	oht illuminates		
	the bearing to the station is evaluated with a	i maximum		
	accuracy, which the system is capable in radi	o touch with station.		
	If the course correction light does not shine,	the aircraft		
	is beyond the station range and the bearing	is computed by		
	the system autonomously with lower accura	cy.		
	Volume Knob:			
	The "VOLUME CONTROL" knob, when turned	d CW increase the		
	RSBN station audio signal to the pilot's heads	set.		
	Zero Course Button:			
	When the "AZIMUTH 0 SETTING" button is d	epressed, rotating		
	the potentiometer will set the zero course. I	his button is used		
	ior maintenance purposes offiy.			
	5. Volume Knob 9. Distance	Switch		
	6. Course Correction Light 10. LDG Char	nel Selector		
	7. Distance Correction Light 11. NAV Char 8. Course Switch 12. Zore Course	nnel Selector		
	0. COUISE SWILLII 12. 200 COU			

5. FOUR HYDRAULIC EMER. LEVERS

FORWARD AND SAFETY WIRED

		WIRED		
	Keyboard command:			
	Control during emergency operation is by means of hand valves, actuated by emergency extension and interconnection control handles. These handles can be actuated from either cockpit with equal priority and in any order. After an emergency operation has been executed, it is possible and legitimate to return any emergency operated consumer, to its initial position. The position returned to, will be the one selected by the normal controls. (In order to return to normal operation the respective emergency handle must be restored to normal in both cockpits.) The landing gear emergency lever placarded "HYD EMER" followed by an extended LG symbol and located on the aft right console in each cockpit, provides emergency means of extending the landing gear, in case an electrical or hydraulic malfunction should prevent use of the main system. When this lever is operated by moving backward, a separate emergency LG extension circuit is fed by the emergency accumulator operates the landing gear and door actuating cylinders until the landing gear is locked at the down position. In this case, the doors remain open. The landing gear can be retracted in emergency by means of main LG control lever, however first the main and emergency hydraulic circuits must be interconnected by moving the "MAIN AND EMER HYDRAULIC INTERCONNECT" lever backward. In this case, both forward and aft cockpits emergency UG extension levers must be placed in the forward position.			E CONTROL LEVER
6.	W/C & A LIGHTS INTENSITY CONTROLS - CHECK - BRIGHTNESS	LIGHTS ILLUMIN.		
	Keyboard command:		1	
	Dimming of the following items is accompli	ished by the dimming	1	
	rheostat, located on the RH console in each	n cockpit:		
	rheostat, located on the RH console in each - Master Caution light - All warning, caution and advisory lights - Landing gear electrical indicator panel - Flap electrical indicator panel - Trim indicators	n cockpit:		WWRNING-LIGHT INTENSITY

 InterNAULIC BAUGE CONTROL Reybad command: Initiations: Pressure in main circuit 135-150 kg/cm² Pressure in memergency circuit after engine start 150 kg/cm² Due to decreasing pressure during high attitude flight the pressure in emergency circuit and gradually drop to 120 kg/cm³ at aircraft maximum celling. The pressure in the emergency circuit is recovered again when the aircraft descends. GMK CONTROL BOX - MODE SWITCH - HEMISPHERE SWITCH - LATITUDE SELECTOR SET LATITUDE SLECTOR The GMK control box is installed in the forward cockpit RH console only. Hemisphere Switch: The 'GAK's witch can be set to either north "N" or south "S" position according to the earth hemisphere where the navigation flight is to be frow. The position sting due to automatic correction of GMK gyroscope position in GC mode.: Mode Switch The 'GAK's tarting process, which lasts 3 minutes in MC mode of 5 minutes in GC mode. When the test switch 'CHECK' is moved to 0 (zero) position, the RMI compass card shall rotate to position zero degrees, when in 300 degrees position the GMK system in the GMK control box and front control panel. Men the test switch is released to its can be excut operation of the GMK system in the GMC mode. The test switch 'CHECK' is moved to 0 (zero) position, the RMI compass card shall rotate to position zero degrees, when in 300 degrees position the compass card shall indicate 300 heading. The allowable indication totence is a 10 degrees. The compass card frequenting the GMK control box and front control panel. Men the test switch is released to its center neutral position, the RIS compass card shall rotate box and indicate atual heading. Latitude Selector: The latitude selector. The latitude selector. The latitude selector. The latitude exten here and on scale above the selector. The selected latitude can be read on scale above the selector. Hardiae fundate 	7		CONDITION		
Interfactors: - Pressure in main circuit 135-150 kp/cm ² - Pressure in main circuit 135-150 kp/cm ² - Pressure in emergency circuit and rengine start 150 kp/cm ² - Due to decreasing pressure during high attitude flight the pressure in emergency circuit can gradually drop to 120 kp/cm ² at aircraft maximum celling:. The pressure in the emergency circuit is recovered again when the aircraft descends. 8. GMKC CONTROL BOX MC - MODE SWITCH MC - HEMISPHERE SWITCH SET - Keyboard command: The GMK control box is installed in the forward cockpit RH console only. The "GA" switch can be set to either north "N" or south "S" position according to the earth hemisphere where the navigation flight is to be flown. The position setting is due to automatic correction of GMK gyroscope position in GC mode. Gyro Drift Indicator provides pilot with the same information as the gyro drift indicator on the directional gyro front control panel. Mode Switch The test switch verifies the correct operation of the GMK system in the GMK starting proces, which hasts 3 minutes in MC mode or 5 minutes in GC mode. When the test switch "CHECK" is moved to 0 (zero) position, the RMI compass card shall rotate to position in gradual provide indicator on both the GMK control bax and front control panel. Mode Switch The test switch were the navigation flight is to be flown, the RMI compass card shall indicate 30° heading. The allowable indication to prace is a 10 degrees. The com	1.		CONDITION		
 Limitations: Pressure in main circuit 135:150 kp/cm² Pressure in memergency circuit after engine start 150 kp/cm² Due to decreasing pressure during high attitude flight the pressure in emergency circuit can gradually drop to 120 kp/cm² a direct maximum celling. The pressure in the emergency circuit is recovered again when the aircraft descends. BMK CONTROL BOX MODE SWITCH MCC HEMISPHERE SWITCH SET LATITUDE SELECTOR SET Keyboard command: The GMK control box is installed in the forward cockpit RH console only. Hemisphere Switch: The "GMK control box is installed in the forward cockpit RH console only. Hemisphere Switch: The "GAR is switch can be set to either north "N" or south "S" position according to the earth hemisphere where the navigation flight is to be flow. The position stelling is due to automatic correction of GMK gyroscope position in GC mode. Gyro Drift Indicator: The mode switch The mode switch can select one of the GMK operation modes: MC or GC. Mode Switch The test switch verifies the correct operation of the GMK system in 300 degrees, shich hasts 3 minutes in MC mode or 5 minutes in GC mode. Mode flow the thets switch "CHCCK" is moved to 0 (eroi) position, the RMI compass card shall rotate to position inter on position, the RMI compass card shall rotate to position ing the indicator on both the GMK control box and from tourtor on patel. Med contember set when the avergent or difficingit is to be flown crao beset by latitude s		Keyboard command:			HYDRAULIC MAIN EMER
 Pressure in main circuit 135-150 kp/cm² Pressure in emergency circuit after engine start 150 kp/cm² NOT Due to decreasing pressure during high attitude flight the pressure in emergency circuit can gradually drop to 120 kp/cm² at aircraft maximum celling. The pressure in the emergency circuit is recovered again when the aircraft descends. 6. GMK CONTROL BOX MODE SWITCH MC HEMISPHERE SWITCH SET HEMISPHERE SWITCH SET Keyboard command: The GMK control box is installed in the forward cockpit RH console only. Hemisphere Switch: The "GA" switch can be set to either north "N" or south "S" position according to the earth hemisphere where the navigation flight is to be flown. The position setting is due to automatic correction of GMK gyroscope position in GC mode. Gyro Drift Indicator provides pilot with the same information as the gyro drift indicator on the directional gyro front control panel. Mode Switch The test switch verifies the correct operation of the GMK system in the MC mode. The test can be executed after terminating the GMK starting process, which hast 3 minutes in MC mode so for on (preor) position, the RMI compass card shall rotate to position the campass card shall rotate to position the compass card shall contario to the group drift indicator no both the GMK control box and front control panel. D degrees. The compass card reposition the HIS compass card shall notate back and indicate actual heading. Latitude Selector: The latitude estity is required due to automatic correction of GMK gyro position in GC mode. The selected lat		Limitations:			
- Pressure in emergency circuit after engine start 150 kp/cm ² MoTe Due to decreasing pressure during high attitude flight the pressure in emergency circuit can gradually drop to 120 kp/cm ² at aircraft maximum celling. The pressure in the emergency circuit Is recovered again when the aircraft descends. 8. GMK CONTROL BOX - MODE SWITCH - HEMISPHERE SWITCH SET - LATITUDE SELECTOR SET Keyboard command: The GMK control box is installed in the forward cockpit RH console only. Hemisphere Switch: The 'GAR' switch can be set to either north 'N' or south 'S'' position according to the earth hemisphere where the navigation flight is to be flown. The position in GC mode. Gyro Drift indicator Correction of GMK gyroscope position in GC mode. Mode Switch The mode switch can select one of the GMK operation modes: MC or GC. Test Switch The test switch verifles the correct operation of the GMK system in the MC mode. The test can be executed after terminating the GMk control basis and that's minutes in MC mode or 5 minutes in GC mode. When the test switch 'CHECK' is moved to 0 (zero) position, the RMI compass card shall rotate to position needs: a 10 degrees, when in 300 degrees position the Compass card shall indicate 300' heading. The allowable indicator on both the GMK control box and front control panel. Latitude Selector: The latitude selector. The latitude setting is required due to automatic correction of GMK gyro position in GC mode. Latitude Selector: The latitude selector. The latitude setting is required due to automatic correction of MK gyro position in GC mode. The selected latitude can be read on scale above the selector.		- Pressure in main circuit 135-150 kp/cm ²		150 200 150	
NOTE Due to decreasing pressure during high attitude flight the gressure in meregency circuit can gradually drop to 120 kp/cm² at arccraft maximum celling. The pressure in the emergency circuit is recovered again when the aircraft descends. 8. Stream Control DoX • MODE SWITCH MC • HEMISPHERE SWITCH SET • Keyboard command: The GMK control box is installed in the forward cockpit RH console only. The GMK control box is installed in the forward cockpit RH console only. Correction of GMK gryoscope position in GC mode. Gyro Diff Indicator The "GA" switch can be set to either north "N" or south "S" position according to the earth hemisphere where the navigation flight is to be flown. The position setting is due to automatic correction of GMK gryoscope position in GC mode. Cyro Diff Indicator provides pilot with the same information as the gryo drift indicator on the directional gryo front control panel. Mode Switch The tots where the stars a minutes in MC mode or 5 minutes in GC mode. When the test switch "Subter Nument the Subtom 200 (preso position the compass card shall rotate to position to the propass card shall indicate 300' heading. The allowable indication tolerance is a 10 degrees. The compass card reposition fight is to be flown card ball indicate actual heading. Line "GAK subter the navigation flight is to be flowin the GMK control box and front control panel. When the test suby		- Pressure in emergency circuit after engi			
NOTE Due to decreasing pressure during high attitude flight the pressure in emergency circuit a gradually drop to 120 kp/cm² at aircraft maximum celling. The pressure in the emergency circuit is recovered again when the aircraft descends. 8. GMK CONTROL BOX MC • MODE SWITCH MC • HEMISPHERE SWITCH SET - LATITUDE SELECTOR SET Revisor dommand: The GMK control box is installed in the forward cockpit RH console only. Hemisphere Switch: The GMK control box is installed in the forward cockpit RH console only. The "SABAII fA" indicator provides pilot with the same information as the gyro drift indicator on the directional gyro front control panel. Mode Switch The "SABAII fA" indicator provides pilot with the same information as the gyro drift indicator on the directional gyro front control panel. Mode Switch The test switch verifies the correct operation of the GMK system in the MC mode. The test can be executed after terminating the GMK starting process, which lasts 3 minutes in MC mode or 5 minutes in SO degrees position in corrupas card shall rotate to position tecompass card shall rotate to position in geno difficator on both the GMK control box and front control panel. When the test system is released to its center neutral position, the HS compass card shall rotate boast and indicate on both the GMK control box and front control panel. When the test system is released to its enter neutral position the compass card shall rotate boast and indicate actual heading. Lattude Selector: The latit					
Due to decreasing pressure during high attitude flight the pressure in emergency circuit agradually drop to 120 kp/cm² at aircraft maximum ceiling. The pressure in the emergency circuit is recovered again when the aircraft descends. Image: Comparison of the comparison of		NOTE			
pressure in emergency circuit can gradually drop to 120 kp/cm² at aircraft maximum celling. The pressure in the emergency circuit is recovered again when the aircraft descends. 8. GMK CONTROL BOX • MODE SWITCH • HEMISPHERE SWITCH • LATITUDE SELECTOR SET Keyboard command: The GMK control box is installed in the forward cockpit RH console only. MC Hemisphere Switch: The 'GA' switch can be set to either north 'N' or south 'S' position according to the earth hemisphere where the navigation flight is to be flown. The position setting is due to automatic correction of GMK gyroscope position in GC mode. Gyro Drift Indicator: The ''SABAII As' indicator provides pilot with the same information as the gyro drift indicator on the directional gyro front control panel. Image: Control box is installed to the GMK operation modes: MC or GC. The test switch can select one of the GMK operation modes: MC or GC. Image: Control box is not set and be executed after terminating the GMK starting process, which lasts 3 minutes in MC mode or 5 minutes in GC mode. When the test switch ''CHECK' is moved to 0 (zero) position, the RMI compass card shall rotate to position zero degrees. When in 300 degrees position the compass card shall indicate 300' heading. The allowable indicator on both the GMK control box and front control panel. When the test switch is released to its center neutral position, the HIS compass card shall rotate back and indicate actual heading. Latitude Selector: The taitude selector: The latitude selector: The latitude selector. The latitude selector. The selected latitude can be read on scale above the selector.		Due to decreasing pressure during high at		G	
aircraft maximum ceiling. The pressure in the emergency circuit INDUME is recovered again when the aircraft descends. MC • MODE SWITCH MC • LATITUDE SELECTOR SET Keyboard command: The GMK control box is installed in the forward cockpit RH console only. Hemisphere Switch: The "GA" switch can be set to either north "N" or south "S" position according to the earth hemisphere where the navigation flight is to be flown. The position setting is due to automatic correction of GMK gyroscope position in GC mode. Gyro Drift Indicator: The "GAE switch can select one of the GMK operation modes: MC or GC. The test switch can select one of the GMK operation modes: MC or GC. The test switch verifies the correct operation of the GMK system in the MC mode. The test can be executed after terminating the GMK starting process, which lasts a minutes in MC mode or 5 minutes in GC mode. When the test switch 'CHECK' is moved to 0 (zero) position, the MM compass card shall rotate to position zero degrees, when in 300 degrees position the campas card reprositioning shall be accompanied by illumination of the gyro drift indicator on both the GMK control box and front control panel. When the test switch is released to its center neutral position, the HS compass card shall rotate back and indicate actual heading. Latitude Selector: Latitude selector: The rode switch The eatomak and indicate actual heading. Latitude selector: The automak and indicate actual heading. Latitude select		pressure in emergency circuit can gradual		HYDRAULIC PRESSURE	
is recovered again when the aircraft descends. 8. GMK CONTROL BOX • MODE SWITCH • HEMISPHERE SWITCH • HEMISPHERE SWITCH • LATITUDE SELECTOR Set Reyboar dommand: The GMK control box is installed in the forward cockpit RH console only. Hemisphere Switch: The "GA" switch can be set to either north "N" or south "S" position according to the earth hemisphere where the navigation flight is to be flown. The position in GC mode. Gyro Drift Indicator The "SABAIL fA" indicator provides pilot with the same information as the gyro drift indicator on the directional gyro front control panel. Mode Switch The mode switch can select one of the GMK operation modes: MC or GC. Test Switch The test switch werifies the correct operation of the GMK system in the MC mode. The sets can be executed after terminating the GMK starting process, which lasts 3 minutes in MC mode or 5 minutes in GC mode. When the test switch "CHECK" is moved to 0 (zero) position, the RMI compass card shall notate to position or planel. When the test switch is released to its center neutral position, the HIS compass card shall indicator on both the GMK control box and front control panel. When the test switch is released to its center neutral position, the HIS compass card shall indicator no both the GMK control box and front control panel. When the test switch is released to its center neutral position, the HIS compass card shall notate back and indicate actual heading.		aircraft maximum ceiling. The pressure in	the emergency circuit		INDICATOR
8. GMK CONTROL BOX - MODE SWITCH - HEMISPHERE SWITCH - LATITUDE SELECTOR MC SET SET Keyboard command: MC Control box is installed in the forward cockpit RH console only. Hemispher Switch: The "GA" switch can be set to either north "N" or south "S" position according to the earth hemisphere where the navigation flight is to be flown. The position setting is due to automatic correction of GMK gyroscope position in GC mode. Gyro Drift Indicator Gyro Drift Indicator provides pilot with the same information as the gyro drift indicator on the directional gyro front control panel. Mode Switch The mode switch can select one of the GMK operation modes: MC or GC. Test Switch The test switch verifies the correct operation of the GMK system in the MC mode. The test can be executed after terminating the GMK starting process, which last 3 minutes in MC mode or 5 minutes in GC mode. When the test switch "CHCK" is moved to 0 (zero) position, the RMI compass card shall rotate to position zero degrees, when in 300 degrees position the compass card shall indicate 300" heading. The allowable indication tolerance is ± 10 degrees. The compass card shall boable indication tolerance is ± 10 degrees. The compass card shall boable indication tolerance is ± 10 degrees. The compass card shall boable indication tolerance is ± 10 degrees. The compass card and heading. Latitude Selector: The latitude selector: The latitude selector. The latitude selector. The latitude selector. The latitude selector. The latitude selector. The selected latitude can be read on scale above the selector. Heading free individe selector and provide in of GMK gyro position in GC mode. The selected latitude can be read on scale		is recovered again when the aircraft desc	ends.		
Image: Switch of the second	8				
• HEMISPHERE SWITCH SET • LATITUDE SELECTOR SET Keyboard command: SET Keyboard command: SET The GMK control box is installed in the forward cockpit RH console only. Image: Console only. Hemisphere Switch: The "GA" switch can be set to either north "N" or south "S" position according to the earth hemisphere where the navigation flight is to be flown. The position setting is due to automatic correction of GMK gyroscope position in GC mode. Gyro Drift Indicator: The "3ABAII fa" indicator provides pilot with the same information as the gyro drift indicator on the directional gyro front control panel. Mode Switch The mode switch can select one of the GMK operation modes: MC or GC. Test Switch The test can be executed after terminating the GMK strating process, which lasts 3 minutes in MC mode or 5 minutes in GC mode. When the test switch "CRC" is moved to 0 (zero) position, the RMI compass card shall rotate to position zero degrees, which also 3 drift indicator on both the GMK control box and front control panel. When the test switch is released to its center neutral position the HIS compass card shall rotate box and indicate actual heading. Latitude Selector: Latitude selector. The latitude setting is required due to automatic correction of GMK gyro position in GC mode. The selected latitude can be read on scale above the selector. The latitude selector. Heading from allows is indicate actual heading. Latitude Selector: Latitude selector. The latitude setting is required due to automatic c	0.		MC		
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The selected latitude can be read on scale above the selector.		due to automatic correction of GMK gyro	position in GC mode.		
Hooding Switch		The selected latitude can be read on scale	e above the selector.		
Hooding Switch					
neauing Switch:		Heading Switch:			

		If the GMK operates in MC mode, moving	the "HDG. SELECT"		
		switch to either position will align the GM			
		heading. If the GMK operates in GC Mode			
		SELECT" switch to either position will cau			
		in the respective direction hence rotating			
		gyro (compass card) rotation is terminate			
		switch is released to its center neutral po	sition, and the GMK		
		proceeds operation in GC mode with new			
Γ	0				
	9.	JFT-REG. TEST			
		Keyboard command:			
		The EGT limiting system is controlled by t	he electronic block. The		
		temperature transmitters (thermocouple			
		block with electrical signal proportional v	vith FGT_Based on that		
		signal the electronic block then controls	ooth the limiting and the		
		shutoff valves operation and signal lights	illuminating. The		
		electronic block is supplied with 28 V and	l switched on by the		
		"IPT REG" switch located on the forward	cocknit aft CB/switch		
		nanel			
		If necessary the EGT limiting system can l	ne manually switched		
		off by guarded EGT limiting system disable	e switch located on the		
		forward cocknit LH console. The switch is	labeled "OFF IPT REG"		
	forward cockpit LH console. The switch is labeled OFF JPT REG.				
	While the "LPT 730°C" light comes on during flight, it does not				
	extinguish after EGT drops below that value and remain lighting				
	even after landing. In that case, the engine is automatically				
		shut down after nose wheel touches dow			
		The system can be tested on the ground			
		test switch "IPT -REG. TEST" located on th			
		console Positioning the switch to positio	n I will cause the "LP.T.		
		700°C" light to come on and in position II	the "LP T 730°C" light		
		to come on.			
F	40				
	10.		SETCODE		
		Keyboard command:			
		The IFF control box is located under the F	the cabin frame in the		
		forward cockpit only.			
		Code Selector (4):			
		The relevant identification code can be se	elected by the code		
		selector in a range from 1 to 12.			
					Ö Ö Ö
		Power Switches (7)			9 1 2 1 0 5
		The doubled switch labeled "FEEDING" sv	vitches on the IFF		
		system.			
		Demon Light (2)			
	Power Light (2):			6	
		The red advisory light labeled "FEED. CHE	CK" illuminates when		IFF CONTROL BOX
		the IFF system is power supplied.			
I		Emergency Switch (9):		1	
		The switch "ENCOU at a billion of the	o		
		The switch "EMERG" should be switched	on whenever		
		The switch "EMERG" should be switched emergency conditions are detected. Swit	on whenever ching on the emergency		
		The switch "EMERG" should be switched emergency conditions are detected. Swit switch will warn the air traffic controller a	on whenever ching on the emergency about the emergency		

END				
 1. Transmission Indicator 2. Power light 3. Code Selection Indicator 4. Code Selector 5. Voltage Regulator 	6. Circuit Breaker7. Power Switches8. Test Socket9. Emergency Switch			



	 End of transfer from wing-tip tanks 	- "WING TIP TANKS" light			
	IIIuminates.				
	- Quality indication decreases.				
	from then onwards, is accompanied	by "150 KG FUEL"			
	warning light.	,			
	The fuel indicator should indic	cate value according the flight	mission to be flown.		
5			BRAIION button.		
э.	ADI / RIVII Keyboard command:	OPERATIVE	_	62-20-	
				13 12 11	
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
				9 S S S S S S S S S S S S S S S S S S S	
6.	THROTTLE	STOP		5 10 6	
	Keyboard command:			CC	
				9 7	
				Sector Se	
				Contraction of the second seco	
			1000	B EWD THROTTLE GRIP	
7					
1.	Keyboard command:				
				FDR SWITCH	
8.	VOLTAMMETER	CHECK			
		22 V MINIMUM		30 ⁴⁰³⁰ 20	
	Keyboard command:				
				VOLTAMMETER	
NOTE					
	Do not attempt an engine battery start if battery voltage is less than 22 V.				
	WARNING				
	Failure to comply to equipme	y the next step could result in nt or injury to pilot in aft cock	damage pit.		
9.	AFT CANOPY	CLOSE	G . F	<u> </u>	
	Keyboard command:				
				CANOPY LOCK HANDLE	



	E	NGINE START		
		CAUTION		
The that	engine throttle finger-lift, for retarding the-throttle fro the forward pilot be aware and prepared to retard the	m IDLE to STOP is availal throttle to STOP in case of must be shut down.	ble in the forward cockpit of an engine hot start or at	only. It is therefore crucial any other time the engine
lf you	were instructed to request engine start permission, t	NOTE Surn on INVERTOR I, INVE	RTOR II and RDO. When pe	ermission request ist done,
	Before engine start, instruct the grou	CAUTION nd crew to set wheel choo	ks under the main landing	ı gear.
1.	TURBO START BUTTON	DEPRESS FOR 2 SECONDS		
	Keyboard command:			
	Pictures from the sim after leaving closed-be	eta status!		
2.	TURBINE STARTER LIGHT	ON BY 25 SEC. MAX		
	Keyboard command:			Wild TP DIG OF WYANY Duess DIGSON MYANY
				OCCOS AL ALTA DEMAN
			Y L	CAUTION & ADVISORY LIGHTS PANEL
3.	ENGINE START BUTTON	DEPRESS FOR 2 SECONDS		
	Keyboard command:		-	
	Pictures from the sim after leaving closed-be	eta status!		
4	THROTTI F	IDI F		5 10 6
		WITHIN 3 TO 6 SECONDS FROM STEP 3		, , , , , , , , , , , , , , , , , , , ,
	Keyboard command:	•		8
				FWD THROTTLE GRIP
5.	RPM, TRIPLE ENGINE, EGT	CHECK		100 %
	INDICATORS	VALUES	-	
			-	
				EGT INDICATOR
				TRIPLE ENGINE INDICATOR

				ENCINE VIBRATION INDICATOR
		CAUTION	L	
	• If the APU starter is not disconned	cted within 45 sec., abort start a	and switch APU to STOP (TURBO STOP switch).
	• If the EGT rises rapidly and appro	aches the high limit, abort start	t immediately.	
	Strong tail wind can cause an EGI	temperature increase and agg	ravate fire condition. Obse	erve the following:
		NOTE		
	If any of the following conditions is	s not met, abort start sequence	by retarding the throttle t	o STOP.
	 HPC RPM RISE WITHIN 8 SEC. MINIMUM 20% RPM WITHIN 15 SEC. EGT RISE WITHIN 25 SEC. WHEN HPC RPM 30 %, LPC RPM START TO INCREASE MAX EGT 685°C CONTINUOUS HPC RPM RISING 41.5 - 44.5 % TURBINE STARTER LIGHT GOES OUT IDLE RPM WITHIN 50 SEC. 			
6.	ENGINE AT IDLE RPM	56 ± 1.5 %	-	
	Keyboard command:			RPM INDICATOR
7.	OBSERVE THE FOLLOWING: - OIL PRESSURE - CAUTION AND WARNING LIGHTS Keyboard command:	2 kp/cm ² MINIMUM OUT FOLLOWING: HYD.SYS FAIL ENG. MIN. OIL PRESS.		TRIFICE ENDICATOR
				FRE WEEKON M MX 15 NA MORENON SAT VERNON CANONY VERNON SAT VERNON CANONY VER
				CAUTION & ADVISORY
		END		LIGHTS FAIREL

	AF	TER START CHEC	KS	
1.	CANOPY	CLOSE AND LOCK CANOPY UNLOCKED LIGHT		
	Keyboard command:			
	The aircraft is equipped with individua	I canopies for the forward		
	and aft cockpits which are opened and	l closed independently.		
	The canopies are hinged at the right a	nd open upward; from the		
	LH side.			///
	Make sure to lift the canopy from the	left otherwise it may be		A I
	released of its hinges on the right.			
	the externals locking lovers and the ca	nonviettison levers,		
	Securing rods are installed to hold the	canopy jettison levers.		
	position.	currepy at the open		CANOPY LOCK HANDLE
	The internal canopy locking levers are	located on the left cabin		
	rail in each cockpit. It has a red mark in	n the forward locked		
	position. In the closed position, each c	anopy is held by four		
	locks. The locks in each canopy are ope	ened or closed		
	simultaneously by the canopy locking	ever through a		
	mechanical linkage. To open the canor	by, the internal canopy		
	lever is tilted inboard and then pulled	backwards.		
2.	PRESSURIZATION / ECS			
			-	
	Keyboard command:			
	of the windshield and canonies of both			
	an air bottle with a volume of 2 liters a			
	Two stage reduction valves located in			
	gradually this pressure to 1.52-1.59 kp	/cm ² (22-23 psi) which is		
	adequate for canopy sealing. The pres	sure in bottles is indicated		dir.
	on the pressure gage located on the ai	rcraft nose LH side		PRESSURIZED
	together with the filling port.			DEPRESSURIZED
	Sealing effect of the windshield and ca	nopies is established after		
	closing and locking the canopies locks	and moving the Cabin		CABIN PRESSURIZATION AND ECS HANDLE
	done from either cocknits	enter position. This can be		
	When unlocking the canopy without d	e-pressurizing first		
	(and/or during election), the air in the	sealing tubes is drained		
	automatically. However during normal	operation this is highly		
	unrecommended as the canopies can s	spring out of their hinges.		
	The Cabin pressurization and ECS hand	lle may be placed to		
	center or forward position, only after l	ooth canopies are		
	locked.			
3.	MAIN CB / SWITCH			
	- GENERATOR MAIN AND			
	GENERATOR EMERG.	AND GENERATOR LIGHTS OUT	- F	
	Keyboard command:			
	The main DC power supply system con	sists essentially of a 9 kW		
	engine-driven generator. For the gene	rator to be connected to		
	witchboard in the forward cockrit	vitch, located on the main		<u> </u>
	generator to be connected to the now	er supply, the following		MAIN C/B SWITCH PANEL
	generator to be connected to the power supply, the following conditions shall be met:			

	 "NETW." switch in the aft cock 	pit in ON position	
	 generator voltage is higher that 	an battery voltage	
	 external power source disconr 	nected from the aircraft	
	·		
	As the generator connects to the powe	er supply, the	
	"GENERATOR" warning lights extinguish in both cockpits. The		
	voltammeter then indicates the genera	ator output voltage 28.5 V	
	and current actually provided by the g	enerator to the power	
	supply. If the voltage provided by the g	generator drops below the	
	permissible value, the generator is aut		
	from the power supply and the "GENE	RATOR" warning light	
	comes on.	5.5	
	The auxiliary generator is connected to		
	"GENERATOR EMERG." switch located	on the main CB/switch	
	panel in the forward cockpit.		
4.		UN	
	Keyboard command:	445.14 40011	
	The static semiconductor single-phase	115 V, 400Hz inverter	
	supplies alternating current to the UHI	-/UHF radio, ADF, radio	
	altimeter, marker, ice sensor, engine v	ibration transmitter and	
	ECS valves and is connected to the circ		
	"INVERTOR I" switch located on the ma		
	forward cockpit.		
	The inverter II is of the same type as the	ie inverter I. It supplies	MAIN C/B SWITCH PANEL
	current to IFF, RSBN and missile seeker	r heads. The inverter	
	is activated by switching "INVERTOR II"	'switch on the	
	main CB/switch panel in the forward c	OCKDIT.	
	, ,		
5.	RDO, MRP-RV, RSBN, DE-		
5.	RDO, MRP-RV, RSBN, DE- ICING SIGNAL, SDU	ON	
5.	RDO, MRP-RV, RSBN, DE- ICING SIGNAL, SDU Keyboard command:	ON	
5.	RDO, MRP-RV, RSBN, DE- ICING SIGNAL, SDU Keyboard command: RDO:	ON	
5.	RDO, MRP-RV, RSBN, DE- ICING SIGNAL, SDU Keyboard command: RDO: Connects and protects ICS and radio.	ON	
5.	RDO, MRP-RV, RSBN, DE- ICING SIGNAL, SDU Keyboard command: RDO: Connects and protects ICS and radio.	ON	
5.	RDO, MRP-RV, RSBN, DE- ICING SIGNAL, SDU Keyboard command: RDO: Connects and protects ICS and radio. MRP-RV:	ON	
5.	RDO, MRP-RV, RSBN, DE- ICING SIGNAL, SDU Keyboard command: RDO: Connects and protects ICS and radio. MRP-RV: Connects radio altimeter and marker.	ON	
5.	RDO, MRP-RV, RSBN, DE- ICING SIGNAL, SDU Keyboard command: RDO: Connects and protects ICS and radio. MRP-RV: Connects radio altimeter and marker.	ON	
5.	RDO, MRP-RV, RSBN, DE- ICING SIGNAL, SDU Keyboard command: RDO: Connects and protects ICS and radio. MRP-RV: Connects radio altimeter and marker. RSBN:	ON	
5.	RDO, MRP-RV, RSBN, DE- ICING SIGNAL, SDU Keyboard command: RDO: Connects and protects ICS and radio. MRP-RV: Connects radio altimeter and marker. RSBN: Connects RSBN system and inverter IV	ON .	
5.	RDO, MRP-RV, RSBN, DE- ICING SIGNAL, SDU Keyboard command: RDO: Connects and protects ICS and radio. MRP-RV: Connects radio altimeter and marker. RSBN: Connects RSBN system and inverter IV	ON .	A D D D D D D D D D D D D D D D D D D D
5.	RDO, MRP-RV, RSBN, DE- ICING SIGNAL, SDU Keyboard command: RDO: Connects and protects ICS and radio. MRP-RV: Connects radio altimeter and marker. RSBN: Connects RSBN system and inverter IV DE-ICING SIGNAL:	ON	MAIN CB SWITCH PANEL
5.	RDO, MRP-RV, RSBN, DE- ICING SIGNAL, SDU Keyboard command: RDO: Connects and protects ICS and radio. MRP-RV: Connects radio altimeter and marker. RSBN: Connects RSBN system and inverter IV DE-ICING SIGNAL: Connects icing signalization system.	ON	MAIN CB SWITCH PANEL
5.	RDO, MRP-RV, RSBN, DE- ICING SIGNAL, SDU Keyboard command: RDO: Connects and protects ICS and radio. MRP-RV: Connects radio altimeter and marker. RSBN: Connects RSBN system and inverter IV DE-ICING SIGNAL: Connects icing signalization system.	ON .	MAIN C/B SWITCH PANEL
5.	RDO, MRP-RV, RSBN, DE- ICING SIGNAL, SDU Keyboard command: RDO: Connects and protects ICS and radio. MRP-RV: Connects radio altimeter and marker. RSBN: Connects RSBN system and inverter IV DE-ICING SIGNAL: Connects icing signalization system. SDU:	ON	A A A A A A A A A A A A A A A A A A A
5.	RDO, MRP-RV, RSBN, DE- ICING SIGNAL, SDU Keyboard command: RDO: Connects and protects ICS and radio. MRP-RV: Connects radio altimeter and marker. RSBN: Connects RSBN system and inverter IV DE-ICING SIGNAL: Connects icing signalization system. SDU: Protects SDU direct command landing	ON system to network.	MAIN CB SWITCH PANEL
5.	RDO, MRP-RV, RSBN, DE- ICING SIGNAL, SDU Keyboard command: RDO: Connects and protects ICS and radio. MRP-RV: Connects radio altimeter and marker. RSBN: Connects RSBN system and inverter IV DE-ICING SIGNAL: Connects icing signalization system. SDU: Protects SDU direct command landing WINGTIP TANKS	ON system to network. AS REQUIRED	MAIN CB SWITCH PANEL
5.	RDO, MRP-RV, RSBN, DE-ICING SIGNAL, SDU Keyboard command: RDO: Connects and protects ICS and radio. MRP-RV: Connects radio altimeter and marker. RSBN: Connects RSBN system and inverter IV DE-ICING SIGNAL: Connects icing signalization system. SDU: Protects SDU direct command landing WINGTIP TANKS Keyboard command:	ON system to network. AS REQUIRED	MAIN CB SWITCH PANEL
5.	RDO, MRP-RV, RSBN, DE-ICING SIGNAL, SDU Keyboard command: RDO: Connects and protects ICS and radio. MRP-RV: Connects radio altimeter and marker. RSBN: Connects RSBN system and inverter IV DE-ICING SIGNAL: Connects icing signalization system. SDU: Protects SDU direct command landing WINGTIP TANKS Keyboard command: Air bleed from HP compressor is direct	ON system to network. AS REQUIRED :ed into wing tip tanks and	MAIN C/B SWITCH PANEL
5.	RDO, MRP-RV, RSBN, DE-ICING SIGNAL, SDU Keyboard command: RDO: Connects and protects ICS and radio. MRP-RV: Connects radio altimeter and marker. RSBN: Connects RSBN system and inverter IV DE-ICING SIGNAL: Connects icing signalization system. SDU: Protects SDU direct command landing WINGTIP TANKS Keyboard command: Air bleed from HP compressor is direct pressurizes them. Fuel is then fed from	ON system to network. AS REQUIRED red into wing tip tanks and the wingtip tanks until all	MAIN C/B SWITCH PANEL
5.	RDO, MRP-RV, RSBN, DE-ICING SIGNAL, SDU Keyboard command: RDO: Connects and protects ICS and radio. MRP-RV: Connects radio altimeter and marker. RSBN: Connects RSBN system and inverter IV DE-ICING SIGNAL: Connects icing signalization system. SDU: Protects SDU direct command landing WINGTIP TANKS Keyboard command: Air bleed from HP compressor is direct pressurizes them. Fuel is then fed from fuel is transferred into the delivery tan	ON	Image: Second
5.	RDO, MRP-RV, RSBN, DE-ICING SIGNAL, SDU Keyboard command: RDO: Connects and protects ICS and radio. MRP-RV: Connects radio altimeter and marker. RSBN: Connects RSBN system and inverter IV DE-ICING SIGNAL: Connects icing signalization system. SDU: Protects SDU direct command landing WINGTIP TANKS Keyboard command: Air bleed from HP compressor is direct pressurizes them. Fuel is then fed from fuel is transferred into the delivery tan the "WING TIP TANKS" light illuminates	ON system to network. AS REQUIRED red into wing tip tanks and n the wingtip tanks until all ik, when upon completion, s.	MAIN CB SWITCH PANEL
5.	RDO, MRP-RV, RSBN, DE-ICING SIGNAL, SDU Keyboard command: RDO: Connects and protects ICS and radio. MRP-RV: Connects radio altimeter and marker. RSBN: Connects RSBN system and inverter IV DE-ICING SIGNAL: Connects icing signalization system. SDU: Protects SDU direct command landing WINGTIP TANKS Keyboard command: Air bleed from HP compressor is direct pressurizes them. Fuel is then fed from fuel is transferred into the delivery tan the "WING TIP TANKS" light illuminate: The bleed air will still flow through the	ON system to network. AS REQUIRED red into wing tip tanks and in the wingtip tanks until all ik, when upon completion, s. wingtip tanks into the	MAIN C/B SWITCH PANEL
5.	RDO, MRP-RV, RSBN, DE-ICING SIGNAL, SDU Keyboard command: RDO: Connects and protects ICS and radio. MRP-RV: Connects radio altimeter and marker. RSBN: Connects RSBN system and inverter IV DE-ICING SIGNAL: Connects icing signalization system. SDU: Protects SDU direct command landing WINGTIP TANKS Keyboard command: Air bleed from HP compressor is direct pressurizes them. Fuel is then fed from fuel is transferred into the delivery tan the "WING TIP TANKS" light illuminate: The bleed air will still flow through the fuselage tanks in order to maintain the	ON system to network. AS REQUIRED red into wing tip tanks and in the wingtip tanks until all ik, when upon completion, s. wingtip tanks into the e fuselage tanks	MAIN CO SWITCH PANEL

B VOLTAMMETER



CAUTION Should an icing sensor is not in the air stream on the ground, it does not indicate icing conditions. If the engine is started at icing conditions with ambient temperature below 5°C, position the anti-ice mode switch to MANUAL and leave it there the whole time the engine is running on the ground.						
8.	ANTI-ICE MODE SWITCHAUTOMATIC OR MANUALKeyboard command:The "ANTI-ICING" de-icing switch is located on the RH console auxiliary switch panel in the forward cockpit. It is a three position switch indicating OFF, AUTOMATIC and MANUAL. The system is powered by 115 V AC and protected by "DE-ICING SIGNAL."C/B located on the main CB/switch panel and the two shut-off valves are protected by "DE-ICING AIR SHOWER" C/B located on the aft CB/switch panel.AUTOMATIC OPERATION: With the switch set to the automatic position, the system utilizes the sensor located on the left side of the nose, to detect ice 		n the ground.	Commension South and the second seco		
9.	AIR DIFFUSER Keyboard command:	AS REQUIRED		VOLUME REGULATION		
				FLOW DIRECTION REGULATOR		
10.	IFF	ON	_			
	Keyboard command: Power Switch: The doubled switch labeled "FEEDING" switches (7) on the IFF system.					
END						