

Manual: **Owner's Manual P/N 6A8WWNM-2-20
(INSTALLATION MANUAL, MAINTENANCE MANUAL AND
ILLUSTRATED PARTS BREAKDOWN)**

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INSTRUCTIONS

1. Before adding present change be sure that manual is valid.
Check existing List of Effective Page of the manual to be sure that all previous revisions are inserted.
(Do not insert this change if previous revisions not are inserted).
2. Insert this page before the LOEP.
3. Insert present change removing pages superseded and insert new pages as listed as follows:

Temporary Revision Number/ Data	Appendix/Section	Remove page	Insert page	Page Revision
*TR-2024-001 / 16 Jan. 2024	Appendix CJ / Section 04	From 4-10 to 4-12	From 4-10 to 4-12	TR-2024-001
	Appendix CJ / Section 04	-	From 4-13 to 4-18	TR-2024-001
	Appendix CJ / Section 04	-	From 4-19 and 4-20	Rev. CY
TR-2023-004 / 23 Sept. 2023	Appendix CB / Section 02	2-15	2-15	TR-2023-004
	Appendix CB / Section 02	2-16	2-16	CP
	Appendix CB / Section 02	2-19	2-19	CP
	Appendix CB / Section 02	2-20	2-20	TR-2023-004
	Appendix CB / Section 02	2-23	2-23	TR-2023-004
	Appendix CB / Section 02	2-24	2-24	TR-2023-004
	Appendix CB / Section 06	6-23	6-23	TR-2023-004
	Appendix CB / Section 06	6-24	6-24	CP
	Appendix CB / Section 06	6-25	6-25	TR-2023-004
	Appendix CB / Section 06	6-26	6-26	CP

* Shows the last issued Temporary Revision

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PHASE	OPERATION	RESULT	Operator Signature
<u>Test the ICS system</u>			
ES-10	Select cabin loudspeaker as output devices. See user Manual 6IFUM021-319 pag. 44 to 48	Check that on cabin speaker audio from video is loud and clear.	
ES-10	increase and decrease the volume. 6IFUM021-319 pag. 44 to 48	Check that on all output device the audio volume change according to the operation.	
ES-11	Press mute button (loudspeaker icon). 6IFUM021-319 pag. 44 to 48	Check that all output devices stop to play audio.	
ES-12	Select CAMERAS interface from the app. Select a camera AFT from the list and send video on TV1 Select Camera FWD and send on TV2. See user Manual 6IFUM021-319 pag. 57	Check that Video is showed independently on TV2 and on TV1.	

NOTE

Perform the following checks only if revision "B" is marked on the IFEEL SW version identification label (Ref. [Figure 4- 3](#)) or Service Bulletin SB-AB1-076 has been implemented and recorded on the helicopter log book.

PHASE	OPERATION	RESULT	Operator Signature
<u>Test the ICS system</u>			
ICS-1	Select INTERNAL CALL interface from the app. perform a "V-VIP CALL". See user Manual 6IFUM021-319 pag. 29 to 32	Verify that: V-VIP passengers and are connected and can talk themselves. communication is clear and no noise is present.	
ICS-2	Select INTERNAL CALL interface from the app. perform a "V-VIP + PILOT CALL". Pilots accept the call. See user Manual 6IFUM021-319 pag. 29 to 32	Verify that: starting the loop on the headphones you hear a chime. V-VIP passengers and the cockpit are connected and can talk themselves. communication is clear and no noise is present.	
ICS-3	Select INTERNAL CALL interface from the app. perform a "CABIN CALL". See user Manual 6IFUM021-319 pag. 29 to 32	Verify that: all passengers are in communication. communication is clear, and no noise is present.	
ICS-4	Select INTERNAL CALL interface from the app. perform a "CABIN + PILOT CALL". Pilots accept the call. See user Manual 6IFUM021-319 pag. 29 to 32	Verify that: starting the loop on the headphones you hear a chime. The cockpit and all passengers are in communication. communication is clear, and no noise is present.	
ICS-5	Select INTERNAL CALL interface from the app. perform a "CUSTOM CALL". See user Manual 6IFUM021-319 pag. 29 to 32	Verify that: starting the loop, only the selected seats are communicating communication is clear, and no noise is present.	

PHASE	OPERATION	RESULT	Operator Signature
ICS-6	Select ICS CALL interface from the app. See user Manual 6IFUM021-319 pag. 33	Verify that: starting the loop, only the selected seats are communicating communication is clear, and no noise is present.	
ICS-7	With right Direct cockpit call button perform a "Cockpit Call" Pilot accept the call.	Verify that: the LED on the button flashes during the outgoing call the call with the pilot the button LED is green there is a direct private call with the pilot. communication is clear and that there is no noise	
ICS-8	With left Direct cockpit call button perform a "Cockpit Call"	Verify that: the passenger is added to the private call communication is clear and that there is no noise	
ICS-9	using one of the two Direct cockpit call buttons check that during the call the passenger who presses the button leaves the call	Verify that: when the call with the pilot is closed, the button LED is amber	
ICS-10	With Direct cockpit call button close the call	Verify that: when the call with the pilot is closed, the button LED is amber	
ICS-11	From Cockpit AV900 perform a "Cabin Call" and accept using IFEEL App.	Verify that: Chime is played on all Headset. When the passenger accepts the incoming call all passengers are forced to enter the communication; the communication is clear, and no noise is present.	

PHASE	OPERATION	RESULT	Operator Signature
ICS-12	From Cockpit AV900 perform a "Passengers Address".	Verify that: <ul style="list-style-type: none"> - the voice from the cockpit is audible in the cabin loudspeakers. - into all passenger headphones the pilot voice is present, and all the other audio sources are paused; pop up is present in the IFEEL App. 	
<u>Test ECS ENVIRO System</u>			
ECS-1	In cockpit on ECS control panel, set: the "HEAT/COND" switch in "OFF" position.	Verify that on Tablet the ECS status led is unlighted and shows "ECS OFF".	
ECS-2	In cockpit on ECS control panel, set: the "HEAT/COND" switch in "VENT" position.	Verify that on Tablet the ECS status led is lighted and shows "ECS ACTIVE".	
ECS-3	Repeat the operation at previous point for "A/C RECYCLE", "FULL AUTO", "MAN HEAT", "RAM ONLY" positions.		
ECS-4	In cockpit on ECS control panel, set: the "PAX CONTROL" switch in "PAX" position and the "HEAT/COND" switch in "OFF" position.	Verify that on the Tablet is showed the label "CABIN CONTROL DISABLED".	
ECS-5	In cockpit on ECS control panel, set: the "PAX CONTROL" switch in "PAX" position and the "HEAT/COND" switch in "VENT" position.	Verify that on the Tablet is showed the label "CABIN CONTROL ENABLED".	

PHASE	OPERATION	RESULT	Operator Signature
ECS-6	Repeat the operation at previous point for "A/C RECYCLE", "FULL AUTO", "MAN HEAT", "RAM ONLY" positions.		
ECS-7	In cockpit on ECS control panel, set: the "PAX CONTROL" switch in "PAX" position and the "HEAT/COND" switch in "MAN HEAT" position.	Verify that on HMI the FAN control is enabled, and TEMPERATURE control is disabled.	
ECS-8	Select ECS interface from the app. change "Ventilation speed". See user Manual 6IFUM021-319 pag. 34	Check if: fan speed varies according to settings.	
ECS-9	In cockpit on ECS control panel, set: the "PAX CONTROL" switch in "PAX" position and the "HEAT/COND" switch in "FULL AUTO" position.	Verify that on HMI the FAN and TEMPERATURE controls are enabled.	
ECS-10	Select ECS interface from the app. change "Temperature level". See user Manual 6IFUM021-319 pag. 34	Verify that: the cabin temperature varies according to settings.	
ECS-11	Select ECS interface from the app. "Set AUTO ventilation speed". See user Manual 6IFUM021-319 pag. 34	Verify that: on HMI the AUTO status led is lighted. the fan speed varies according to settings.	
ECS-12	Select ECS interface from the app. "Switch temperature unit". See user Manual 6IFUM021-319 pag. 34	Verify that: the button temperature unit label on the HMI switches between °C and °F.	

PHASE	OPERATION	RESULT	Operator Signature
ECS-13	Repeat steps from 1 to 12 using Wired HMI located on the cockpit instead of IFEEL App on tablet. See user Manual 6IFUM021-319 pag. 18 and 19		
ECS-14	Turn off ECS.		
<u>Test 115 V_{AC} Power</u>			
VAC-1	Activate output pressing activation button on cockpit cabinet and then, measure output voltage and frequency on the 115 V _{ac} sockets.	Verify that: voltage is 115 Vac ± 2 Vac and that frequency is 60 Hz ± 0,5 Hz.	
VAC-2	Apply a load of 200 W on each 115 V _{ac} socket.	A total load of 400 W is applied to the inverter.	
VAC-3	Measure output voltage and frequency on the 115 V _{ac} socket.	Verify that: voltage is 115 Vac ± 2 Vac and that frequency is 60 Hz ± 0,5 Hz.	
<u>Test USB Power</u>			
USB-1	Activate output pressing activation button on cockpit cabinet, then connect the MP3 reader (or equivalent device) on the USB charger socket.	Verify that: the MP3 player is charging.	
USB-2	Repeat the operation at previous point for all USB charger socket.		
<u>Test NVG System</u>			
NVG-1	activate the NVG command in the cockpit	Verify that: the Touch in the cockpit is off. the switch 115 / USB light on / off is in NVG	

PHASE	OPERATION	RESULT	Operator Signature
<u>Test the Moving Map</u>			
MM-1	Select MOVING MAP interface from the app. (make sure that GPS is active and flight plan is selected). See user Manual 6IFUM021-319 pag. 36	Check that: on tablet is showed Moving map with helicopter located in the right position. check that slideshow is active and all views are showed. check that flight data are coherent with FMS parameter.	
MM-2	Tap on tablet screen and use functions Zoom, Pan and Tilt. See user Manual See user Manual 6IFUM021-319 pag. 36	Check that: Moving Map is responsive to manual command.	
MM-3	Send the video on TV1 and on TV2 See user Manual See user Manual 6IFUM021-319 pag. 36	Check that: Moving Map interface is correctly	
<u>Test the LIMO Window</u>			
LW-1	Select LIMO interface from the app perform short press up. See user Manual 6IFUM021-319 pag. 35	Check that: Limo window goes up until button is pressed.	
LW-2	perform short press down. See user Manual 6IFUM021-319 pag. 35	Check that: Limo window goes down until button is pressed.	
LW-3	perform "up" long press. See user Manual 6IFUM021-319 pag. 35	Check that: Limo window is fully closed.	
LW-4	perform "down" long press. See user Manual 6IFUM021-319 pag. 35	Check that: Limo window is fully opened.	

PHASE	OPERATION	RESULT	Operator Signature
LW-7	On the Limo Window Pilot Switch perform short press up.	Check that: Limo window goes up until button is pressed.	
LW-8	On the Limo Window Pilot Switch perform short press down.	Check that: Limo window goes down until button is pressed.	
LW-9	On the Limo Window Pilot Switch perform "up" long press.	Check that: Limo window is fully closed.	
LW-10	On the Limo Window Pilot Switch perform "down" long press.	Check that: Limo window is fully opened.	
<u>Test of the Admin Feature</u>			
AF-1	Switch S108 "Cabin Power" in OFF position. Wait for two minutes and then switch S108 in ON position again.		
AF-2	During IFEEL Start-Up, tap more than 4 times on text "please wait" on cockpit wired HMI. See user Manual 6IFUM021-319 pag. 20	Check that: "Maintenance Mode On" message is shown. Open Home -> controls UI and check that Admin button is present. Access to Admin UI and check if password is required.	
<u>Test of the Logo Feature</u>			
LO-1	Select LOGO interface from the app. See user Manual 6IFUM021-319.	Check that: On FWD monitors is present the LOGO image.	

NOTE

Perform the following checks only if revision "C" is marked on the IFEEL SW version identification label (Ref. [Figure 4-3](#)) or Service Bulletin SB-AB1-076 has been implemented and recorded on the helicopter log book.

1. Perform all test reported on the latest revision of User manual 6IFUM021-319 and verify the following:

PHASE	OPERATION	RESULT	Operator Signature
-	Start up the system	Check that: On IFEEL Tablet Video GUI Source has Logo source selected at start-up	
-		Check that: All cabin monitors show Customer Logo source	
-	Enter in "Air Conditioning" GUI	verify that default temperature is showed in °F	

P/N:

NC:

Sw Ver: A B C D E F G H

Date:

Figure 4-3 IFEEL SW version identification label

4 - 6 TROUBLESHOOTING

Trouble	Possible Cause	Remedy
IFEEL computer is not powered.	ICS breaker is not closed.	Close ICS breaker.
	CABIN POWER switch is OFF and/or CB168, CB167, CB166 breakers are not closed.	Set CABIN POWER switch to ON and/or close the CB168, CB167, CB166 breakers.
	Interface cable assy or rack cable assy is not damaged. Connectors are not properly connected.	Perform continuity check on the cable assy according to wiring diagrams shown in Section 5. Properly connect connectors.
	K4705 relay in the equipment rack is damaged.	Repair or replace K4705 relay.
TCM unit is not powered.	ECS breaker is not closed.	Close ECS breaker.
	CABIN POWER switch is OFF and/or CB168, CB167, CB166 breakers are not closed.	Set CABIN POWER switch to ON and/or close the CB168, CB167, CB166 breakers.
	Interface cable assy not damaged. Connectors are not properly connected.	Perform continuity check on the cable assy according to wiring diagrams shown in Section 5. Properly connect connectors.
	K9601 relay in the equipment rack is damaged.	Repair or replace K9601 relay.
Ethernet switch is not powered.	ETH breaker is not closed.	Close ETH breaker.
	CABIN POWER switch is OFF and/or CB168, CB167, CB166 breakers are not closed.	Set CABIN POWER switch to ON and/or close the CB168, CB167, CB166 breakers.
	Interface cable assy not damaged. Connectors are not properly connected.	Perform continuity check on the cable assy according to wiring diagrams shown in Section 5. Properly connect connectors.
	K4705 relay in the equipment rack is damaged.	Repair or replace K4705 relay.

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