

ALCOLOCK™ Focus



Installation and services manual

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SAFETY AND PRECAUTIONS

The ALCOLOCK Focus camera is designed for easy and safe operation. The following precautions should be followed:

ATTENTION!

- This guide is intended for authorized service technicians only
- Ensure vehicle gear is in park (or neutral with parking brake engaged) and there is sufficient ventilation for vehicle exhaust before beginning this procedure
- Ensure the vehicle engine is off before and during installation of the ALCOLOCK Focus camera
- DO NOT connect the ALCOLOCK Focus camera before the vehicle electrical system has been inspected
- ALCOLOCK LR device, ALCOLOCK Focus camera and all cabling must be positioned so as not to obstruct vehicle operation
- Keep ALCOLOCK LR device, ALCOLOCK Focus camera and all cabling away from components that may move or become hot
- Use existing hardware and holes where available to minimize vehicle modification
- All wire connections must be soldered, taped and sealed only after ALCOLOCK LR device and ALCOLOCK Focus camera have been installed and function verified
- DO NOT use butt or clip connectors to seal wiring, as this may lead to corrosion, intermittent power, intermittent functionality and other avoidable issues

INTRODUCTION

The ALCOLOCK Focus camera is used as part of the ALCOLOCK LR alcohol interlock system in compliance monitoring programs. It is necessary in jurisdictions which require photographic evidence that the correct person is providing a breath alcohol test. It is mounted on an interior surface (dashboard or similar) and aligned to point at the face of the driver.

This manual provides instruction for the connection, positioning, removal and troubleshooting of the ALCOLOCK Focus camera (79-007553). The process outlined in this manual should be performed in conjunction with the corresponding processes outlined in the *ALCOLOCK LR Installation and services manual* (60-000249). These processes are referenced throughout this manual.

REQUIRED TOOLS

- Right-angle Phillips screwdriver

ACS PARTS

- Camera full assembly (79-007553)
- Power harness cable (13-001143)
- USB cable (13-001144)
- Double sided tape (27-000188)
- Tamper proof plug (58-000664)
- Heat-shrink (94-000251)
- ALCOLOCK LR Installation and services manual (60-000249)

CAMERA INSTALLATION

WIRING

1. Strip 1-2 cm (1/3" – 5/8") off the wire ends of the ALCOLOCK Focus camera's Power Harness Cable (13-001143).
2. Connect the BLACK wire to a ground source (GND).
3. Connect the RED wire to a source of 12V DC.
4. Connect the YELLOW (CANH) wire from the ALCOLOCK FOCUS camera Power Harness Cable to the YELLOW-RED wire from the ECU Harness Cable (13-001102).
5. Connect the BLUE (CANL) wire from the ALCOLOCK Focus camera Power Harness Cable to the BLUE-WHITE from the ECU harness cable.
6. Solder and seal heat-shrink (94-000251) over each soldered connection once the camera has been tested and confirmed to be functioning.
7. Insert the USB end of the ALCOLOCK Focus camera Power Harness Cable wire to the back of the camera. Tighten the tamper-proof screw and place seal over top.

MOUNTING CAMERA

1. Locate a flat area suitable for camera mounting where the camera will not obstruct the view of the driver.
2. Use alcohol wipes to clean the mounting area thoroughly.
3. Peel the backing off one side of the double-sided adhesive and stick it to the base of the camera.
4. Peel the backing off the other side of the double-sided adhesive and secure the camera to the prepared mounting location.

HANDSET INSTALL PROCEDURE WITH CAMERA

NOTE: *The process detailed below should be completed concurrently with the "HS Install Procedure and ITE Install Transaction" process described in section 16.0 of the LR installation and services manual (60-000249).*

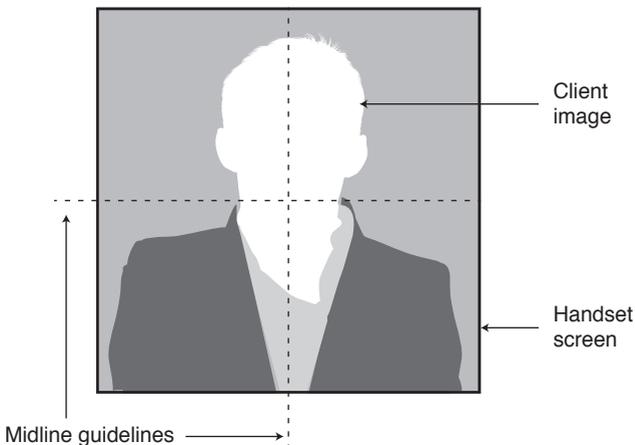
1. In the **SERVICE** menu, scroll to the **Install** option by pressing **Prev** or **Next**, then press **Select**.
2. The screen will display **Do you want to install camera?** Press **Yes**.
3. Continue with the steps of a standard install procedure. At the end of the procedure, the LR screen should display a live feed from the ALCOLOCK Focus camera.

4. Confirm and acknowledge camera function by pressing **Continue**. If the camera is not functioning properly, you will have to replace the camera and begin again.
5. Once the in-car service is complete, the handset will display “**Install Complete Connect to PC**”. Disconnect the handset and proceed to the PC/ITE service outlined in section 16.4 of the LR installation and services manual (60-000249).

SETTING THE OPTIMUM CAMERA ANGLE

1. After the PC/ITE installation procedure is complete and the handset reconnected, remove the vehicle from the garage.
2. Position the client in the driver's seat.
3. Pivot the camera left and right at the base to centre the driver's head horizontally as in Fig.1. Confirm the correct position via the live feed on the handset screen.
4. Tighten the two (2) screws in the base to lock-in the angle.
5. Pivot the camera face up and down to position it so the driver's crown (top of the head) is just below the top of the picture (as in Fig. 1). Confirm the correct position via the live feed on the handset screen.
6. Tighten the two (2) screws at either side of the camera head to lock-in the angle.
7. Approve the image by pressing the Left button.
8. Insert tamper-proof plugs to cover the angle adjusting screws on the base and on the sides.
9. Complete the handset activation procedure.

Fig. 1: Subject positioning



MONITORING

NOTE: *The process detailed below should be completed concurrently with the “HS Monitor Procedure, ITE Calibration and Monitor Transactions” process described in section 21.0 of the LR installation and services manual (60-000249).*

1. In the **Service** menu, scroll to **Monitor** and press **Select**. The handset screen will display **“Insert USB drive”**.
2. Insert the USB drive into the USB cable (13-001144). Once the USB drive is connected and detected by the camera, the image transfer from the camera memory begins automatically.

NOTE: *If the USB key still has files on it from previous use, the handset screen will display “USB drive contains data”. Choose the “Delete” option to clear the USB. Image transfer will then begin.*

3. Once the image transfer has begun and is in progress, continue the standard in-car monitoring procedure. Once the image transfer and standard in-car procedure have been completed, the handset screen will display **“Monitor Complete Connect to PC”**.

NOTE: *If the standard monitoring procedure is completed before the image transfer has completed, a message will appear on the handset indicating that more time is needed.*

4. Remove the USB drive and disconnect the handset.
5. Proceed with PC/ITE calibration and monitor transactions as outlined in section 21.4 of the LR installation and services manual (60-000249).
6. After the PC/ITE Monitoring transaction is complete, reconnect the handset to the vehicle. The display will read **“Drive out of garage”**.
7. Remove the vehicle from the garage and instruct the client to sit in the driver’s seat.
8. Verify that the camera is correctly angled to point at the client’s face while seated in a normal driving position (as in Fig.1, see page 4) using the live feed on the handset, and that the position of the ALCOLOCK Focus camera has not been moved since the initial installation.
9. Approve the image by pressing the left button.
10. Complete the monitoring process.

CAMERA REMOVAL

NOTE: This process detailed below should be completed concurrently with the “Device Removal” process described in section 22.0 of the LR installation and services manual (60-000249).

1. In the **Service** menu, scroll to the **Removal** option and press **Select**. The handset screen will display “**Insert USB drive**”.
2. Insert the USB drive into the USB cable (13-001144). Once the USB drive is connected and detected by the camera, the image transfer from the camera memory begins automatically.

NOTE: If the USB key still has files from previous use, the handset screen will display “**USB drive contains data**”. Choose the “**Delete**” option to clear the USB. Image transfer will then begin.

3. Once the image transfer has begun and is in progress, continue the standard removal procedure. Once completed, the handset will display “**Removal Complete Connect to PC**”.

NOTE: If the standard removal procedure is completed before the image transfer has completed, a message will appear on the handset indicating that more time is needed.

4. Remove the USB drive and disconnect the handset. Proceed with ITE Removal Transaction outlined in section 22.5 of the LR installation and services manual (60-000249).
5. Remove heat shrink and unsolder all wire and ground connection of the camera Power Harness Cable.
6. Remove camera from mounting surface and use alcohol wipe to eliminate any residue.

NOTE: If all images are not downloaded from the camera memory during the removal process, the camera must be sent back to ACS for picture retrieval. The camera will not allow re-installation to another vehicle prior to being sent back to ACS.

CAMERA EXCHANGE

If the camera is diagnosed as not able to take a picture or communicate during the install or monitor procedure, an error message will be displayed on the handset screen followed by a prompt to connect a new camera. Only use new cameras from ACS or cameras which have been fully cleared of all previous images prior to start installing. Cameras with files still on them should be sent back to ACS as soon as possible for retrieval.

In the case of physical damage to a camera, there is an opportunity to exchange the camera with a new one before the “**Connect to PC**” message appears during the Install or Monitor procedures.

TROUBLESHOOTING

The ALCOLOCK V3 device may not accept a breath test and could display error messages instead. To minimize errors, make sure that the handset is connected properly, the vehicle battery is in good condition and that mobile phones are not in use during breath tests. The following is a list of messages (including error messages) that the handset may display:

ISSUE	POSSIBLE CAUSE	SOLUTION
ECU is unable to detect camera	<ul style="list-style-type: none">• Camera is defective• Camera is not connected	<ul style="list-style-type: none">• Check connections between ECU and camera. If problem persists, use new camera and/or ECU
No image is displayed on the handset	<ul style="list-style-type: none">• Camera optical system obstructed• Camera defective	<ul style="list-style-type: none">• Unobstruct view of camera• Replace camera with new one
Camera is not accepted at camera exchange	<ul style="list-style-type: none">• Camera memory is not empty• Camera defective	<ul style="list-style-type: none">• Send camera back to ACS and replace with new one
Camera is not accepted at install	<ul style="list-style-type: none">• Camera memory is not empty• Camera defective	<ul style="list-style-type: none">• Send camera back to ACS and replace with new one
USB cable is missing	<ul style="list-style-type: none">• Camera has been damaged	<ul style="list-style-type: none">• Return to ACS and replace camera with new one

