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ENGINEERING

## **Remote Lock Installation**

**PROC-000004**

**(Version B)**



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## 1. Version History

Version	Description	Name	Date
A	Initial Release	Pat Derkacz	2020-07-19
B	Corrected Wiring	Pat Derkacz	2021-07-01

## 2. Overview

This procedure covers the installation of the IXXI Engineering Remote Lock and Trunk Release module into early and late model Porsche 964's.

**Number of required personnel:** 1

**Estimated time required to complete:** 30-90 minutes





## 3. Included in Kit

Part	Quantity
Remote Lock Module	1
Remote Lock Harness	1
Spare wiring connectors	3
Wire Tap Connectors	7
Remote FOB w/ PO5 Key Blank	2
Trunk Latch Actuator (Optional)	1
Trunk Latch Actuator Mounting Bracket (Optional)	1
Trunk Latch Actuator Wiring Harness (Optional)	1
Wire Rope Clamp (Optional)	1

## 4. Required Tools

Equipment/Items
Pliers
Flathead screwdriver
Electrical Tape
13mm wrench
6mm Allen key (late model only for seat removal)
10mm wrench (remote trunk release installation only)
T25 torx driver (remote trunk release installation only)

## 5. Procedure

### 5.1 Remote Lock Module Wiring

Review the connector and wiring on the remote lock module for reference



Figure 1 - Basic Remote Lock Module Connector

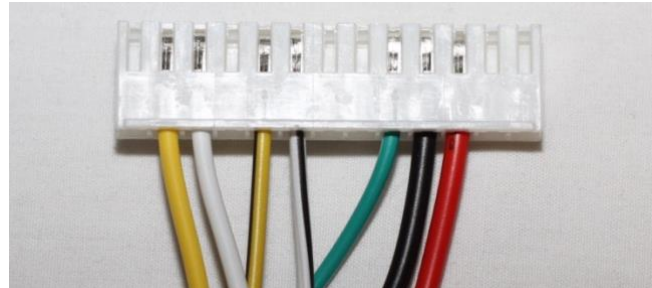


Figure 2 - Remote Lock Module Connector w/ Trunk Release



Figure 3 - Wiring Harness with All Connections

Pin	Color	Description	Notes
1	N/A	Not Used	
2	Yellow	Lock Ground	Prewired to harness ground
3	White	Lock Signal	
4	N/A	Not Used	
5	Yellow/Black	Unlock Ground	Prewired to harness ground
6	White/Black	Unlock Signal	
7	Brown	Turn Signal Lock/Unlock Indicator	Optional
8	N/A	Not Used	
9	Green	Trunk Release Signal	Prewired if ordered in kit
10	Black	Ground	
11	Red	Permanent +12V	
12	Brown	Turn Signal Lock/Unlock Indicator	Optional
13	Pink	Audible Lock/Unlock Trigger	Optional

## 5.2 Early 964 Wiring (1989-1990)

1. Locate the black central lock module that is mounted underneath the dash near the center of the car.

Please note that some 1990 models may fall under the “Late 964” installation instructions. Skip to next section if you do not see the same module that is pictured.



2. Remove a small section of tape covering wiring harness attached to control module to expose wires

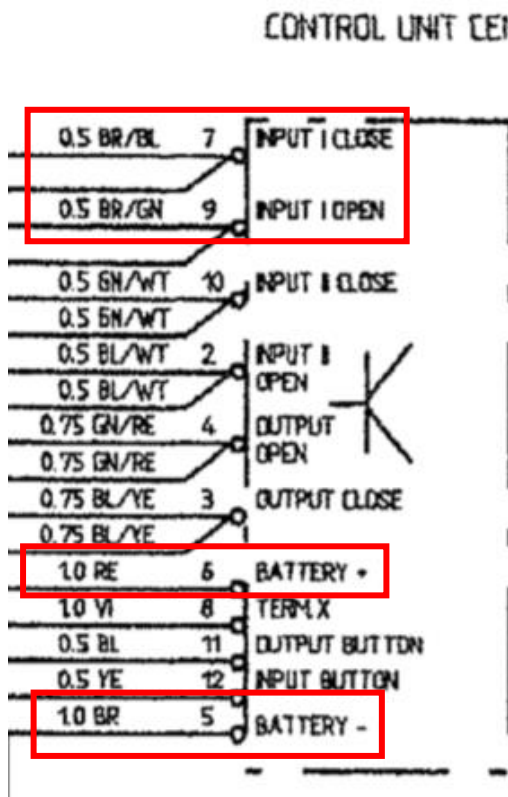


Figure 4 – Early 964 Central Lock Wiring Diagram

The wiring diagram above highlights the lock and unlock wires that will be tapped into for the remote lock module.

If turn signal lock/unlock indicators are wanted, wiring must be run from an alternate location. One method is to tap into the hazard switch wiring. Install the brown wires into the remote lock connector as shown in Figure 3. When unlocking the lights will flash twice, when locking lights will flash once.

Continue to Section 5.4 for details on how to connect wiring to car.

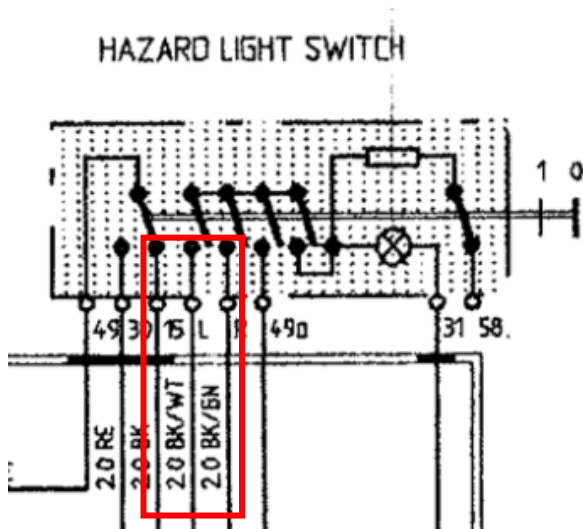


Figure 5 - Early 964 Hazard Light Switch Wiring

## 5.3 Late 964 Wiring (1991-1994)

1. Locate the silver central lock module that is mounted underneath the passenger side seat. The module has a yellow and black connectors attached to it.



2. Remove a small section of tape covering each of two wiring harnesses attached to control module to expose wires

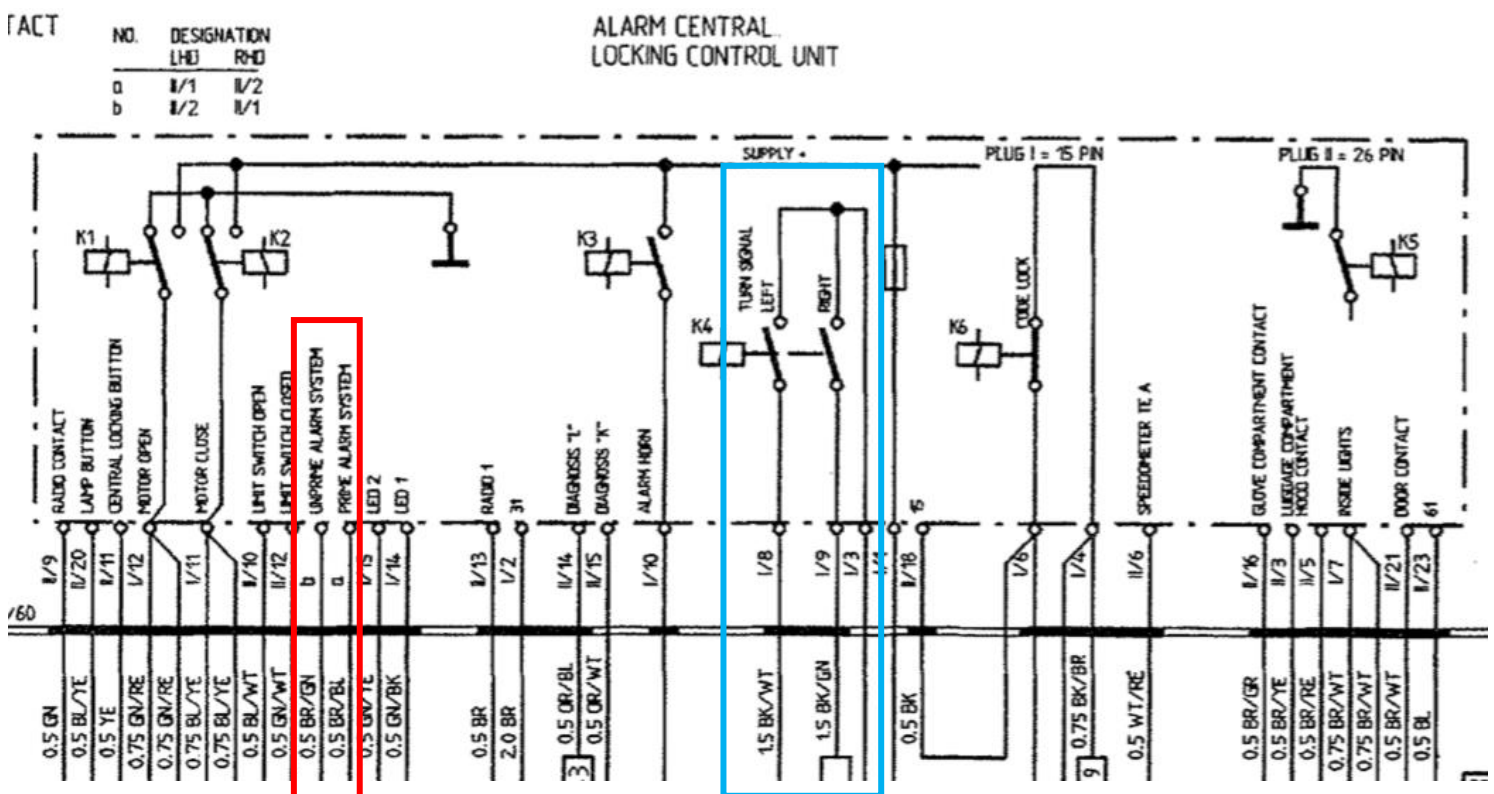


Figure 6 - Late 964 Wiring Diagram



The remote lock wiring is highlighted in red above and shows the “Unprime” and “Prime” alarm wires that are going to be tapped.

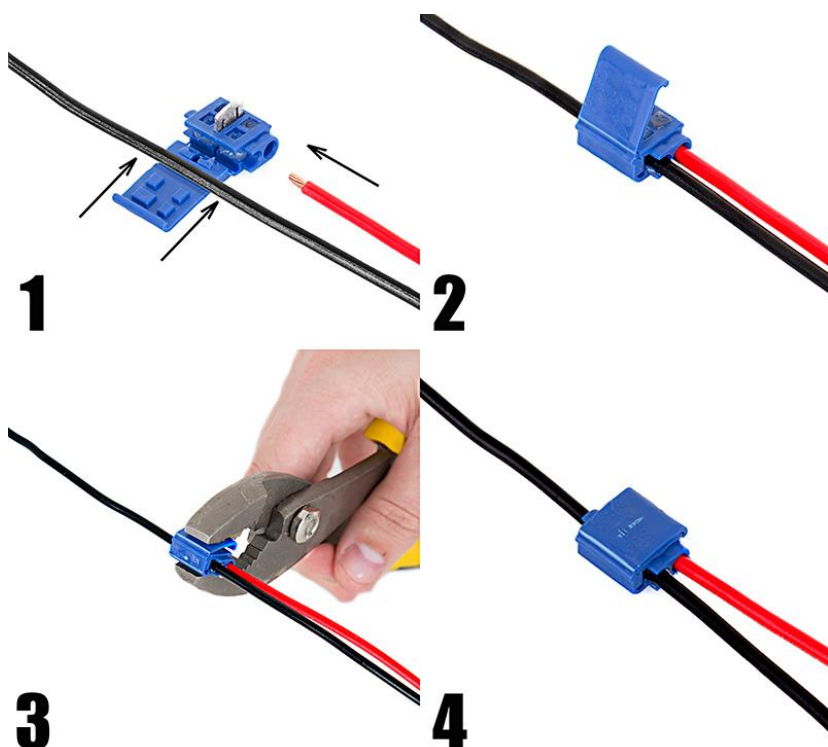
The turn signal indicator wiring is highlighted in blue and is easily accessed in late models from the same control module. If you would like the turn signals to flash when locking/unlocking the car, install the brown wires into the remote lock connector as shown in Figure 3 and connect to car wiring as shown in Section 5.4. When unlocking the lights will flash twice, when locking lights will flash once.

## 5.4 Connecting Wiring

1. Disconnect car battery
2. Prepare remote lock wiring harness and wire taps and attach as follows.

Remote Lock Harness	Car Wiring Harness	Purpose
Red	Red	Permanent 12V +
Black	Brown	Ground
White/Black	Brown/Green	Unlock Signal
White	Brown/Blue	Lock Signal
Brown	Black/White	Lock/Unlock Indicator (optional)
Brown	Black/Green	Lock/Unlock Indicator (optional)

In the below image, the existing car wiring would be the black wire, and the remote lock wiring is the red wire.



Additionally, a video on how to use wire taps can be found here: [https://www.youtube.com/watch?v=9U0N\\_BFHyaY](https://www.youtube.com/watch?v=9U0N_BFHyaY)

Skip to Section 0 if you are not installing the remote trunk release module. Otherwise move on to the next section.

## 5.5 Trunk Release Module

The remote door lock kit also comes with an optional trunk release module. This wiring harness for this assembly is pre-wired and ready for installation.

1. Ensure battery is still disconnected
2. Remove trunk carpet
3. Remove two screws holding cover panel on front of trunk



4. From underneath, using a flat head screwdriver, pry 4 clips holding trim covering latch mechanism





5. Locate the grommet within the passenger side footwell



6. The wiring harness comes without the plastic connector body attached – do not install body yet as it will ease wiring installation. Feed the long wiring harness up through the grommet. It will come up into the trunk between the firewall. A flashlight will be helpful to locate the wire and pull it upwards.

**Note:** Ensure metal connectors on end of harness are well taped to ensure they are not damaged while feeding the wiring harness





7. The wiring harness can then be guided through existing zip ties/brackets holding factory wiring to the body up until it reaches approx 10" past the trunk latch



8. Using a flat head screwdriver open locking tab on connector socket and Install harness leads as shown.

**Note:** Polarity is critical, ensure appropriate pins go to the correct side of the connector. It is extremely difficult to release the pins from the connector once they have been installed if you do not have a removal tool.



*Figure 7 - Pin orientation with connector latch open*

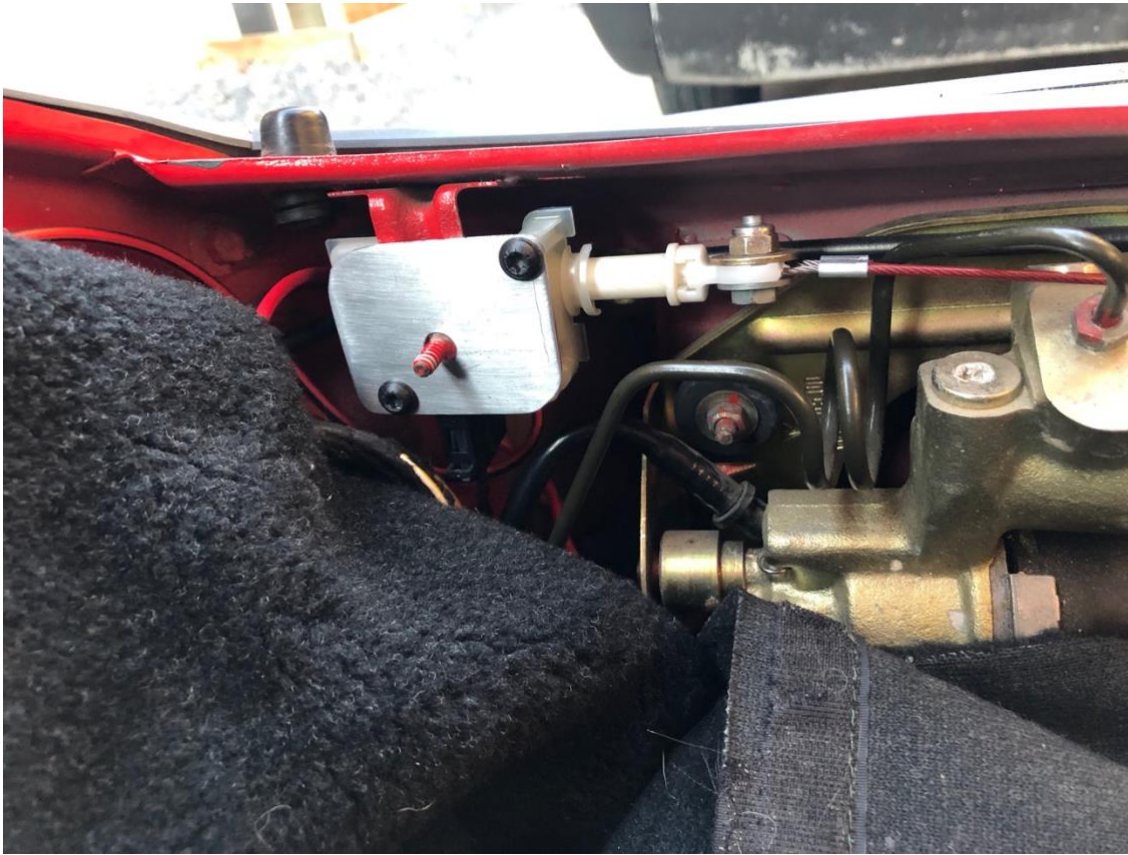


*Figure 8 - View from back side of connector*

9. Clip connector latch back into locked position
10. Snap white end of release cable assembly onto latch actuator
11. Position actuator behind metal bracket in trunk

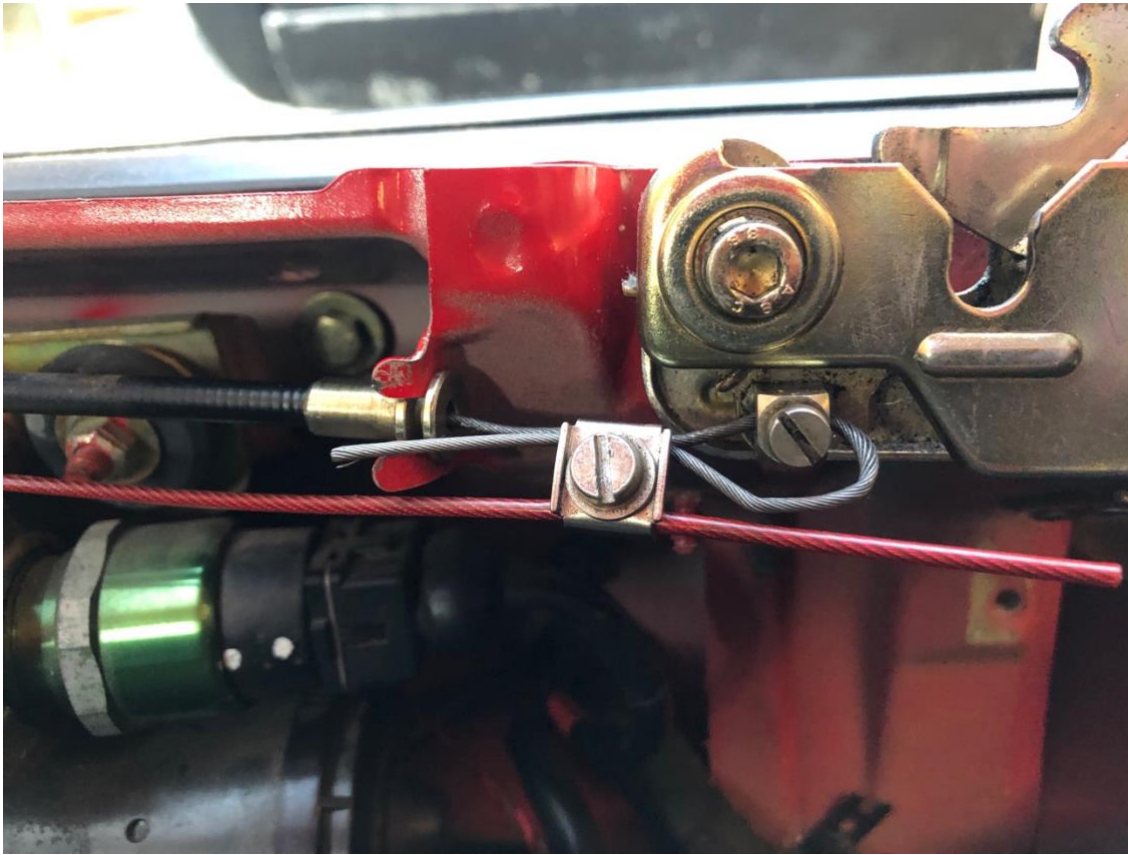


12. Sandwich metal bracket in trunk between supplied metal plate and actuator. Tighten down with supplied screws until snug.



13. Connect wiring harness to actuator

14. Using either the existing or supplied wire clamp, attach red release cable to trunk latch as shown. Some slack in the cable is acceptable as the actuator has a long stroke.



15. Continue to next section to test actuator mechanism



## 5.6 Audible Lock/Unlock Indicator

Additionally, a siren/horn can be triggered during lock/unlock. This can be achieved using the existing horn in the car, or with a standalone siren that must be purchased separately. The horn/siren 12V positive is connected to the pink wire as shown in Figure 3 and negative connected to chassis ground. Just as with turn signal indicators, the module will honk once for lock and twice for unlock.

## 5.7 Test Lock System

1. Reconnect battery
2. Lock and unlock doors using remote
  - a. If lock/unlock operation is reversed, switch white and white/black wires on remote lock wiring harness
  - b. This can be done by using a small screwdriver and pushing the metal tab inside the connector down to release the pin
3. If the lock/unlock trigger does not work, listen for a “click” coming from the relay inside the remote lock module
  - a. If module does click, ensure that the lock and unlock trigger wires are securely fastened to the correct wires on the car’s wiring harness
  - b. If there is no “click” the module is not getting power, check 12V and ground connections

## 5.8 Test Trunk Release System

1. Push trunk latch down manually without closing hood. Keep hood open and hold trunk release button for approx. 3 seconds on remote
  - a. If actuator moves but latch does not release, adjust tension on cable
  - b. If actuator does not move, polarity on wiring harness has likely been installed incorrectly and must be swapped

## 5.9 Reassembly

Once testing is successful reinstall parts in reverse order that they were removed

## End of Procedure