

## HD2D Kit Includes:



Pat. & Pat. Pend.  
2 x Black Actuator (BA)

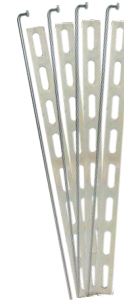


Pat. & Pat. Pend.  
HD-2D 2 x Blue Actuator (B5)  
HD-4D Add  
2 BA Black Actuators



5 Pin Plug

Wiring Harness



Mounting Brackets



Pat. & Pat. Pend.  
RC35a



Hardware

## Introduction

Before starting the installation please read these instructions carefully and familiarize yourself with the components of the kit.

On each door should be a button which moves when the door is locked. When the door trims are removed you will find this is joined to the lock with a rod. It is to this that the actuator's connecting rod is to be attached. Five wire actuators are fitted to the front doors.

## Fitting the actuators

- 1) Position the actuators parallel to the lock rod where it will not foul any moving parts such as the window mechanism.
- 2) The Actuator must be mounted on a flat surface, or alternatively to the mounting strip which can then be shaped to fit.
- 3) Use the template to mark out the holes and drill them approximately 3.5 mm in diameter.
- 4.) Attach the actuator using the self tapping screws, do not over tighten them or use a power screwdriver.

Connecting the actuator to the lock rod, cut and bend the connecting rod as shown in diagram "A". Clamp the two rods together using the block clamp and allen key as shown in diagram "B". Do not tighten the clamps until the electrical connections are complete.

Note: Bend the connecting rods similarly to the correct examples shown below.

## Wiring Procedure

Mount the control box inside the vehicle in a dry place. The connecting pins must point downwards.

Connect the 5 pin plug and the single black ground wire to the control box.

Run the 5 core cable to the front doors and the twin to the rear doors. Ensure that it does not obstruct any mechanism. Wires are connected to the actuators matching color to color (see the wiring diagram). Connect the positive wire last.

## Setting up and Testing

In the rear doors, fully extend the actuators. Tighten the clamp. Operating an actuator in a front door should now operate the rear locks.

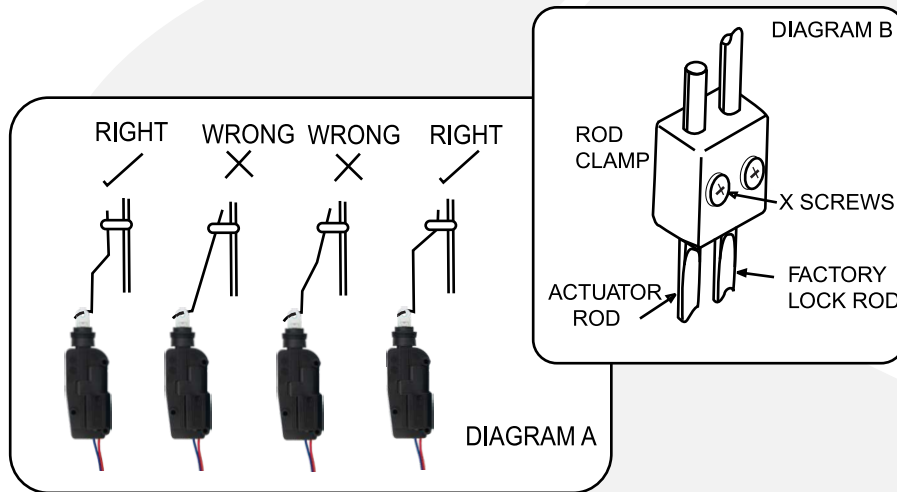
Similarly tighten the clamp in the front passenger's door. If the movement of your lock is less than the actuator's movement it may not trigger the actuator's internal switch. This problem is easily solved by moving the clamp by a small amount.

Test that this lock now operates the rear locks. (The doors may need to be closed for the locks to work.)

Repeat in the driver's door.



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### Trouble Shooting

- 1) All doors lock and unlock by themselves.  
Either the wires have been connected to non matching colors or the clamps in the front doors are not aligned correctly. Repeat the set up and test procedure more carefully.
- 2) When trying to lock the doors they return to unlock (or vice versa).  
Test with the doors closed. If not the fault is as problem 1.
- 3) Rear doors lock when the fronts unlock.  
Reverse the red and blue wires to both rear door actuators.
- 4) Nothing works.  
Check the ground connection of the black wire. Ensure the correct fuse is fitted (4 door-25 amp, 2 door-15 amp). Test that the positive power is live with the keys removed from the ignition.

