

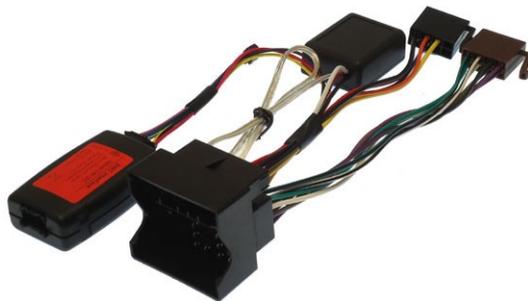
# 29-628HKM *InCarTec*

Mini <06 steering control interface with HK enabler

## Interface features

Audio controls on the steering wheel plus phone buttons

Interface to retain the use of the Harman/Kardon amplifier



## Connection instructions

**Connect the head unit specific patch lead to the interface first.** If using a universal patch lead, check it is setup correctly. Refer to the diagrams overleaf to check the patch lead is correct.

Connect the ISO connectors and patch lead to the new head unit.

Connect the 29-628HKM harness to the vehicle harness.

Test the steering controls.

Fit the head unit into place and test the steering controls again.

## Notes

The push button can be used to set features of the Harman/Kardon amplifier.

Short press cycles through the DSP modes of the amplifier. Spatial - Electronic - Instrumental - Festival.

Long press will activate/deactivate driver mode.

Extended press (three seconds or more) is fader control. Release the button when the desired balance is achieved.

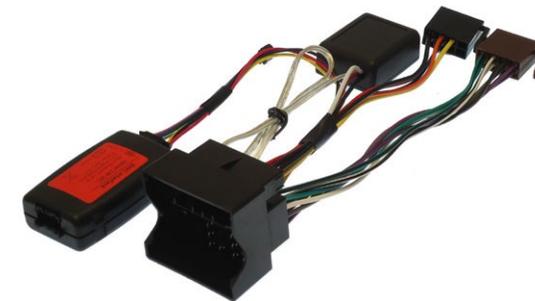
# 29-628HKM *InCarTec*

Mini <06 steering control interface with HK enabler

## Interface features

Audio controls on the steering wheel plus phone buttons

Interface to retain the use of the Harman/Kardon amplifier



## Connection instructions

**Connect the head unit specific patch lead to the interface first.** If using a universal patch lead, check it is setup correctly. Refer to the diagrams overleaf to check the patch lead is correct.

Connect the ISO connectors and patch lead to the new head unit.

Connect the 29-628HKM harness to the vehicle harness.

Test the steering controls.

Fit the head unit into place and test the steering controls again.

## Notes

The push button can be used to set features of the Harman/Kardon amplifier.

Short press cycles through the DSP modes of the amplifier. Spatial - Electronic - Instrumental - Festival.

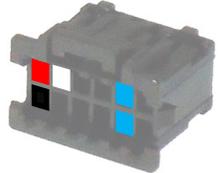
Long press will activate/deactivate driver mode.

Extended press (three seconds or more) is fader control. Release the button when the desired balance is achieved.

## Patch lead wiring configurations



**29-000 Self learning units**  
Single wires pins 1 and 2  
No loops



**29-001 Alpine**  
3.5 jack pins 1, 2 and 3  
Loop pins 9 + 10



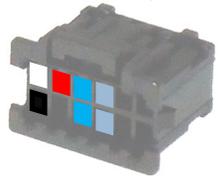
**29-003 Clarion**  
3.5 jack pins 2 and 3  
Loops 5 + 6 and 11 + 12



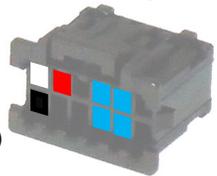
**29-004 JVC**  
Single wire pin 3, 3.5 jack  
pins 2 and 3  
Loop pins 11 + 12



**29-005 Kenwood**  
Single wire pin 3  
Loop pins 7 + 8



**29-007 Pioneer**  
3.5 jack pins 1, 2 and 3  
Loop 5 + 6 (some leads also  
have 7+8 looped, both are the same)



**29-008 Sony**  
3.5 jack pins 1, 2 and 3  
Loops 7 + 8 and 9 + 10



**29-011 Zenec**  
Single wire pin 3  
Loops 5 + 6, 7 + 8  
and 9 + 10



**29-012 Philips**  
Single wire pin 3  
Loops 5 + 6, 9 + 10  
and 11 + 12

## Troubleshooting

### Radio not turning on

Check there is an ignition power supply to the new head unit and the interface.

### Steering controls not working

Check the patch lead is correct and was connected to the interface before the interface was connected to the vehicle.

Reset the interface by completely disconnecting, wait for 2 minutes, then reconnect.

Check the purple wire is connected to a good ground.

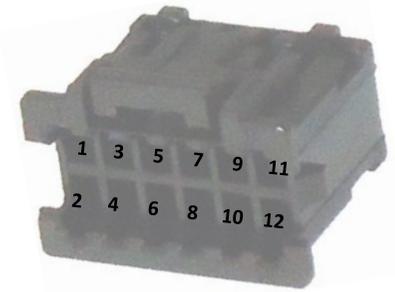
Check the wires in the harness are matching wires in the car, the white wire from the interface is for the steering control signal.

Check the interface has software version VX01 V2.38 or newer.

## Patch lead wiring configurations



**29-000 Self learning units**  
Single wires pins 1 and 2  
No loops



**29-001 Alpine**  
3.5 jack pins 1, 2 and 3  
Loop pins 9 + 10



**29-003 Clarion**  
3.5 jack pins 2 and 3  
Loops 5 + 6 and 11 + 12



**29-004 JVC**  
Single wire pin 3, 3.5 jack  
pins 2 and 3  
Loop pins 11 + 12



**29-005 Kenwood**  
Single wire pin 3  
Loop pins 7 + 8



**29-007 Pioneer**  
3.5 jack pins 1, 2 and 3  
Loop 5 + 6 (some leads also  
have 7+8 looped, both are the same)



**29-008 Sony**  
3.5 jack pins 1, 2 and 3  
Loops 7 + 8 and 9 + 10



**29-011 Zenec**  
Single wire pin 3  
Loops 5 + 6, 7 + 8  
and 9 + 10



**29-012 Philips**  
Single wire pin 3  
Loops 5 + 6, 9 + 10  
and 11 + 12

## Troubleshooting

### Radio not turning on

Check there is an ignition power supply to the new head unit and the interface.

### Steering controls not working

Check the patch lead is correct and was connected to the interface before the interface was connected to the vehicle.

Reset the interface by completely disconnecting, wait for 2 minutes, then reconnect.

Check the purple wire is connected to a good ground.

Check the wires in the harness are matching wires in the car, the white wire from the interface is for the steering control signal.

Check the interface has software version VX01 V2.38 or newer.