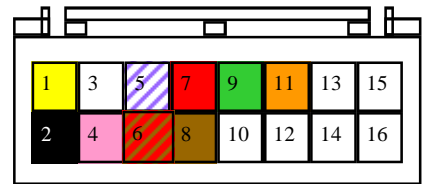
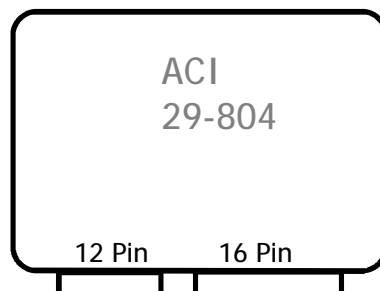




Part number 29-804  
 BMW 1(E81/2/76/8) 3series (E90/1/2/3) X1 E84, X5 E70, Z4  
 Automotive CAN Steering Control & service Interface.

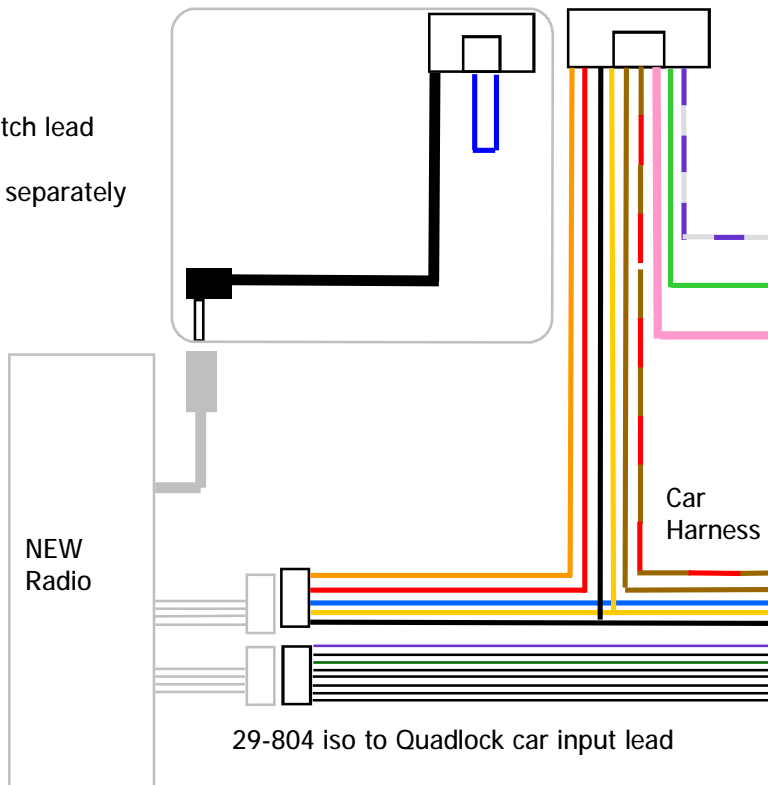
**Steering Control Functions:**

- |             |                       |
|-------------|-----------------------|
| Volume up   | CAN Service           |
| Volume Down | Steering Control      |
| Seek Up     | Handbrake             |
| Seek Down   | Reverse               |
| Source      | Illumination          |
| Preset      | Ignition 12V (key in) |
| Mute        |                       |
| Phone       |                       |



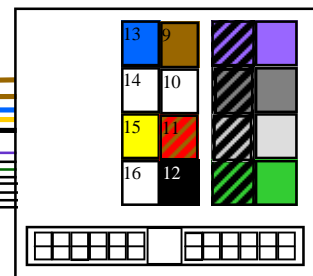
- |                 |              |            |                 |
|-----------------|--------------|------------|-----------------|
| 1- Yellow       | Battery in   | 9- Green   | Handbrake       |
| 2- Black        | Ground       | 10-NC      |                 |
| 3- NC           |              | 11- Orange | Illumination ou |
| 4- Pink         | Speed pulse  | 12-NC      |                 |
| 5- Purple/White | Reverse      | 13-NC      |                 |
| 6- Brown/Red    | CAN High     | 14-NC      |                 |
| 7- Red          | Ignition out | 15-NC      |                 |
| 8- Brown        | CAN Low      | 16-NC      |                 |

Radio patch lead  
 29-xx  
 Supplied separately



- Purple/white- Reverse +12V
- Green— Handbrake
- Pink— Speed pulse 1khz

**29-804 Connector– Wire Entry Side**



- |              |             |
|--------------|-------------|
| 9-Brown      | CAN low     |
| 10-NC        |             |
| 11-Brown/Red | CAN High    |
| 12-Black     | Ground      |
| 13-Blue      | Antenna     |
| 14-NC        |             |
| 15-Yellow    | Battery 12V |
| 16- NC       |             |

1. Connect the 12 pin Head-unit adapter (see overleaf for models) to the main ACI Black box. **It is very important that this lead is connected before any power is supplied to the unit.**
2. Make sure that the 16 pin connector is plugged in .
3. Connect the radio ISO connectors to the ACI harness and then the Quadlock connector to the car's original connector.
4. Turn on the key ignition and check to see that 12V power is being supplied to the new radio.
5. Check the steering functions
6. Connect ground to car chassis to prevent audio noise

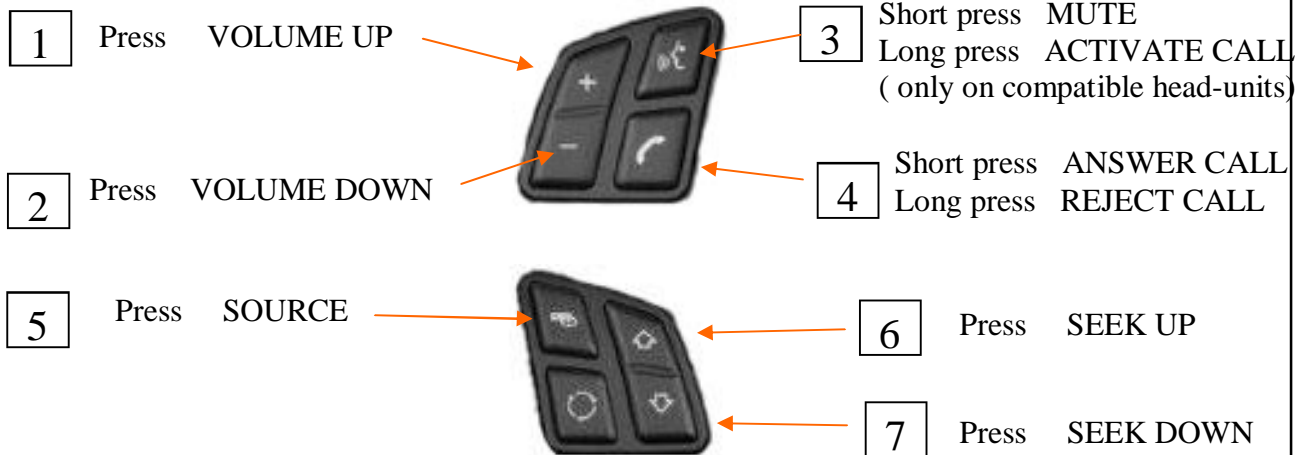
Note. To reset the ACI unit ( to plug in a different Head-unit adapter) remove the power supply three times.

**Ignore the microswitch between the two connectors . The normal correct position for this switch is towards the larger 16 pin connector.**

NOTE: BMW cars with Efficient Dynamics . The permanent 12V supply behind the radio does not stay live all the time. On these cars you should run a separate 12V power supply from the battery

## 29-804 Operation instructions for BMW

### BMW switch operation for aftermarket head-units.



#### Important

#### BMW Cars with Start stop technology.

The battery voltage on the permanent feed will drop to a level which may cause a reset on the aftermarket head-unit.

Use InCarTec part numer 10-604 to maintain the voltage.

#### BMW cars with OEM parking sensors

Removing the original radio will cause the loss of sound from the parking sensors and loss of warning chimes from seat belts and lights.

Use InCarTec part number 25-513 to keep parking and warning chimes

#### CHOOSE THE CORRECT HEAD-UNIT PATCH LEAD FROM THOSE BELOW

**IMPORTANT NOTE :Patch lead Item 29-020 Pioneer/Sony IS NOT SUPPORTED on 29-8xx CAN Series interfaces. Use 29-007-3v Pioneer and 29-008 Sony.**

