



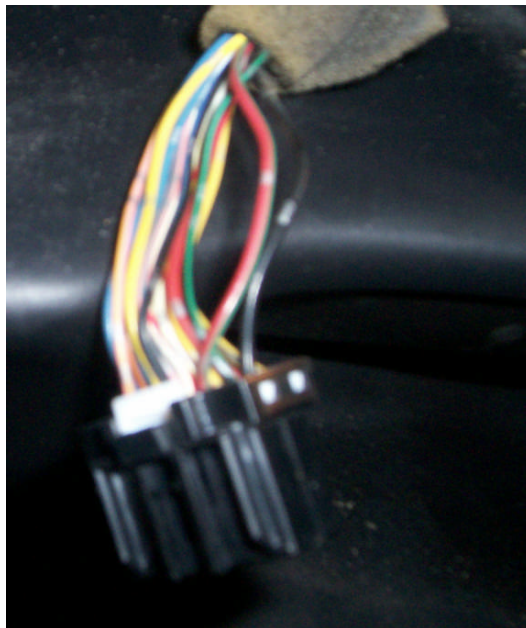
**Install guide for Shift-i in a
1998 to 2002 Ford Falcon**



1. Take off the 2 screw covers for the Instrument cluster shown below and undo the 2 Phillips head screws holding the cluster in. Push down at the base of the cluster near the odometer display then pull the cluster out using the 2 screw holes at the top.



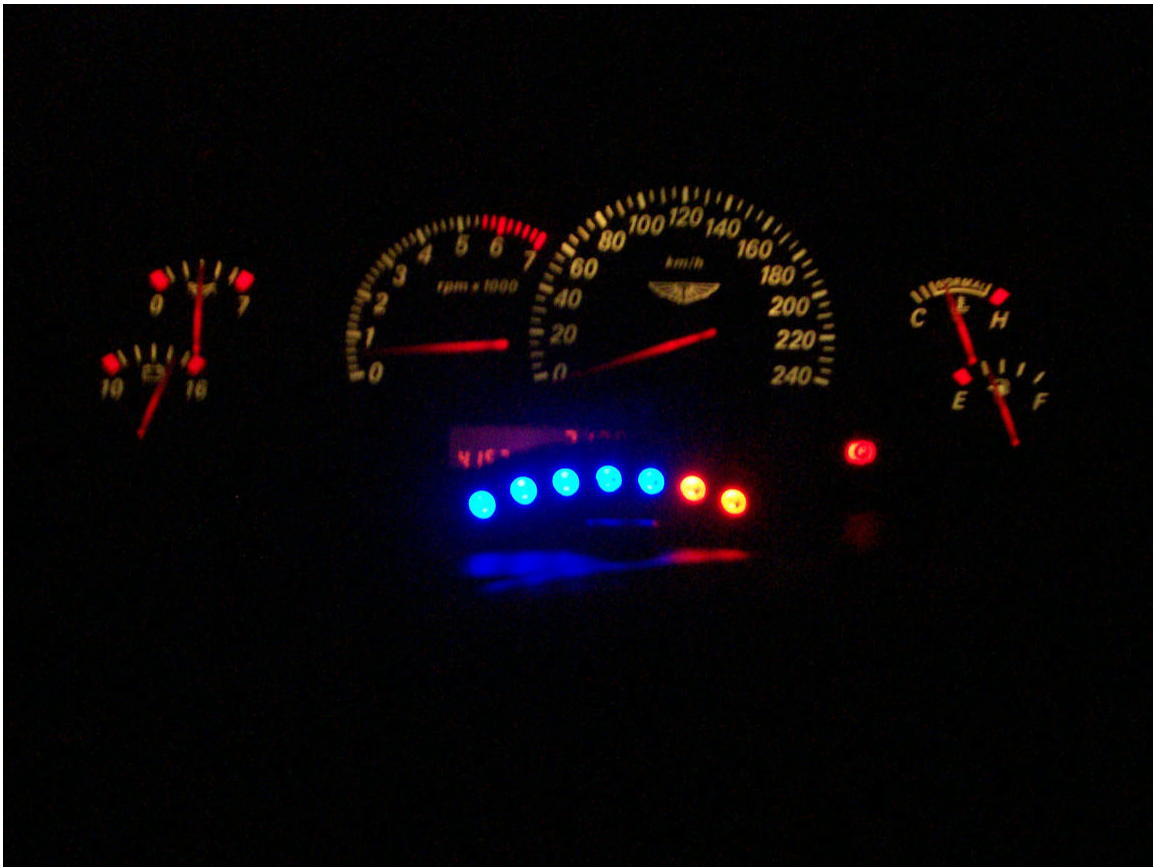
2. Disconnect the connections at the back of the cluster (Mid and Hi series cluster have 3 connectors one on the left and 2 on the right)
3. Once disconnected we need to concentrate on the left hand side connector. You need to locate the following wires
 - Pin 1 – Black = Ground
 - Pin 4 – Red & Dark Green = Ignition
 - Pin 16 – Pink & White or Pink & Blue = Tacho input 0 to +12v pulsed



4. You need to run the wiring depending on where you want the Shift-i to sit. This one is running down the steering column and into the dash area just below the cluster.
5. Splice into the wires and solder the corresponding wires using the table below.

Wire	Cluster Color	Shift-i Color
Ground	Black	Black
Ignition	Red & Dark Green	Black & Red
Tacho Input	Pink & White or Pink & Blue	Black & Blue

6. Once you have soldered the wires and have used the electrical insulation tape to stop the wires touching and shorting out. Then connect the cluster and switch the ignition on and the Shift-i unit should light up if not refer to the manual troubleshooting.



7. Once everything is working put the cluster back in and then you can mount the Shift-i use some wax & grease remover to clean the surface before applying the double sided tape.
8. Calibrate the unit according to the manual and to your required driving style

Here is a List of pin outs for the left had side connector for the cluster handy to locate the wires if unsure.

AUI Falcon Low/Mid/High Series Instrument Cluster Right Hand Side Instrument Cluster Connector (Common for all models - J2)			
Pin 1	Power Ground	Ground	Black
Pin 2	Signal Ground	Ground	Black / Light Green
Pin 3	Low Coolant	Resistance	Yellow / Red
Pin 4	Ignition Power	+12V with Ignition On	Red / Dark Green
Pin 5	Low Oil Warning (Low Series) Oil Pressure (Mid/High Series)	0V Low Oil 0V Low Pressure, 12V High Pressure	White / Red
Pin 6	Door Ajar (Low / Mid Series) Front Drivers Door open (High Series)	Ground when any door open Ground when Drivers door open	Black / Light Blue (Low/Mid) White (Hi)
Pin 7	Fuel Sender	Resistance	Yellow / Dark Green
Pin 8	Spare (Low and Mid Series) MDC Tx Data (High Series)	Output to Trip/Climate Control Center	Orange
Pin 9	Spare (Low and Mid Series) MDC Rx Data (High Series)	Input from Trip/Climate Control Center	Yellow
Pin 10	Low Washer Fluid Input	Switch to ground for low fluid	Pink / Yellow
Pin 11	Spare (Low Series) Traction Control Warning Lamp (Mid/High Series)	Ground to Illuminate	Dark Blue
Pin 12	Airbag Audible warning	Open Collector	Orange / Yellow
Pin 13	EEC V Data (Serial)	Open Collector	(Sheilded Data Line)
Pin 14	Diagnostic ISO Serial I/O	Open Collector Pullup Batt	Not Connected
Pin 15	LCD Dimmer Input 2 Stage (Low Series) LCD Dimmer Input Variable (Mid/High Series)	Ground/Resistance Open Collect PWM Output from Bem	White
Pin 16	Tacho Input	Pulsed from 0V to +12V	White / Pink
Pin 17	Speed Input	Pulsed from 0V to +12V	Light Blue / White (Hi) / White (Low)
Pin 18	Speed Output	Pulsed form 0V to +12V	White
Pin 19	Speedo Sender power supply	+8.2V	Red (Hi) / Yellow/Light Green (Low)
Pin 20	Battery Power	+12V	Black / Orange