Guidelines for fitting Lockwood dials into a Mondeo (Diesel engine) approx' yr 2000 on)

(Part No. 8184)

Do not open this packet until you are absolutely sure that these dials match those in your car. Pay particular attention to the starting and finishing numerals / calibrations on each dial.

Choose a clean, well-illuminated work area. Use a shallow dish to hold all the small pieces that have to be replaced. You will need the usual hand tools and a hair dryer.

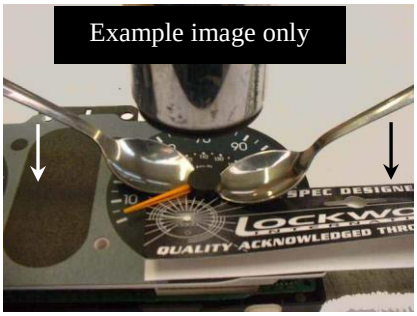
Firstly, with the engine cold but ticking over, make a drawing of the dials showing the exact position of each of the needles (this drawing will enable you to replace the needles back to their original position).

To fit the new dials you need to gain complete access to your original dial faces. To do this you need to remove the instrument cluster pod from the dashboard. You will need to disconnect the electrical connector from the back of the pod.

Now remove the black shroud and clear lens by removing the four screws (2 at the top edge & 2 at the bottom)

Lift of the front of the pod. The entire dial face is now completely exposed.

Remove the needle rest pegs by firmly pulling them out.



As your dials are back lit (illuminated from behind) they need to be removed, to do this you need to remove the 4 needles. **Removing & replacing the needles is safe and easy when this simple procedure is followed:** Firstly place a piece card over the digital display to protect it from the heat of the hair dryer (see illustration). Then take two teaspoons and carefully place the scoop ends of these spoons directly under opposite sides of the hub of the needle, exactly in line with each other (see illustration). **Do not place spoons near the digital displays.** Now, whilst an assistant applies heat from a hairdryer directly to the hub of the needle, exert steady, even, downward pressure on the spoon handles, as illustrated, as you do so, the needle will ease slowly from its spindle. (Holding the hairdryer about 50mm from the hub of the needle will expand the plastic hub & aid needle removal). Remove all of the needles in this manner.

With the needles removed you can now peel the existing black dial face from the back plate. Remove any adhesive residue from the backplate with methylated spirit.

On the back of the new Lockwood dials you will see a number of paper shapes, carefully remove the top layer (of paper) from these shapes to expose adhesive underneath. With all the adhesive exposed, position the new dials onto the back plate of the instrument pod, using the holes and outer shape as guides. When you are certain that the dials are in the correct position, smooth down the dials firmly and evenly with a clean soft cloth.

Replacing the needles.

With the Lockwood dials attached to the back plate, take the instrument pod and the needles (**without** the black shroud and clear lens) back to the car and re-connect the electrical block. Start the engine.

With the engine cold but 'ticking over, take the needles and gently ease each one onto its spindle in the position you recorded earlier on your drawing, but don't press it all the way home yet. With the needles fitted, you may wish to take the car on a short test drive to make sure they are working correctly. If a needle needs readjusting, simply ease it off and reposition it. When the needles are functioning correctly, press them a little further onto their spindles. Insert the needle rest pegs. The rest peg holes can vary in size; if the rest pegs appear too loose then simply apply 2 or 3 tiny dots of super-glue to the underside of the rest peg and clip into its hole (the needles put very light pressure on the rest pegs).

Disconnect the electrical block and take the pod back to your work surface to reassemble. Check that the dials & lens are clean, and then refit the black shroud and clear lens.

When the instrument cluster is fully reassembled, return it to the car, reconnect the electrical blocks and reassemble the dashboard. And again take the car on a short test-run to check that everything is working correctly.

These dials will be a perfect fit in the majority of vehicles referred to on the label, but sometimes, minor variations occur between models during manufacture at the car plant. If this has been the case with your car, it may be necessary for you to make very slight adjustments to the new dials, using a pair of scissors or a craft knife. If more than minor adjustments are necessary, please contact us immediately. Lockwood International make replacement dials for hundreds of different models and it would be impossible to give detailed instructions for every one. The above suggestions from Lockwood customers who have fitted our dials, coupled with a little common sense should be sufficient. But no responsibility will be accepted by the vendor for any damage caused whilst fitting these dials.