

# TECHNICAL BULLETIN



## MODEL/DERIVATIVE:

New 214/216, New 414/416/420, 111/114,  
214/414/220/420, 620 Turbo, 820, Mini

Bull. No: 0012

CDS. ref: R6538bu

Issue: 1

Date: 3.04.96

## AFFECTED RANGE:

MEMS vehicles only.

All with the following ECM cover identification:-

ECM covers with no screws visible (1.6 MEMS version ECM tin type covers with 4 screws visible, also 'X' impression (1.9 MEMS version)

Note: ECM covers with 6 screws visible are not applicable (1.3 MEMS version)

## PROBLEM:

### POOR IDLE FOLLOWING ENGINE/MEMS REPAIR - ECU ADAPTION

Following certain Engine/Engine Management related repairs, customer may complain of poor engine idle quality, either too high, too low, idles erratically or has a tendency to stall. Such repair types are as follows:-

Engine replacement.

- Cylinder head/valve decoke i.e. to correct valve sticking.
- Fuel pressure related repairs.
- Oxygen sensor replacement.
- Injector replacement.

If vehicle is returned to customer in the condition described it may then be rejected as unacceptable, this may then result in an ECM replacement in an attempt to provide an immediate solution.

Investigation of ECM's replaced under warranty show no real fault exists other than map settings away from standard.



1.6 MEMS

1.9 MEMS



A6538RME1

## CAUSE:

When any MEMS vehicle develops certain engine component faults which affect tune condition, the ECM will try to 'adapt' in an attempt to correct the tune irregularity. If the source of the problem is subsequently corrected, the

ECM may not immediately re-set back to standard but take several miles and a variety of driving conditions to re-adapt.

All MEMS vehicles have the ability to adapt and will eventually re-adapt on their own following a repair, however 1.6 MEMS and 1.9 MEMS vehicles only can be corrected instantly by using TestBook, see procedure below.

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**ACTION:**

The ECM may be returned to its original default condition by using the 'Re-Set Adaptions' facility introduced with the latest TestBook CD release - 'DRC0003', although this CD is primarily for New 200 & New 400 it may be used for MEMS 'Re-Set Adaption' on any MEMS 1.6/1.9 vehicle by using 'Expert Toolbox'.

**Procedure:**

**Response & Action**

1. Select 'Expert Toolbox'.
2. Select New Rover 400, New 200 or other, - Press 'Continue'.
3. Enter Vin if New 400 or New 200, press continue, skip by pressing 'Continue' if other models.  
Note: If no Vin can be entered a Warning message appears, - press 'Ignore'.
4. If New 400 or New 200, confirm Vin and press 'Continue', skip by pressing 'Continue' if other models.
5. 'EXPERT TOOLBOX AUTHORISATION' screen appears, press 'Continue'.
6. 'SYSTEM SELECTION' screen appears - select either engine size 1.4/1.6 or 2.0 for New 400 or 1.4/1.6 for New 200, if other vehicles select engine size as appropriate.
7. 'MEMS ECM COMMUNICATION' screen appears, prepare vehicle as per screen instructions, then press 'Continue'.
8. 'INITIALISATION' screen appears with information.
9. 'Select Required Option' screen appears - select 'ECM Options'.
10. Option screen appears, select 'Reset Adaptions'.
11. 'RESET ADAPTIVE VALUES' screen appears, press 'Continue' and proceed as instructed.

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*PARTS INFORMATION:*

**Not Applicable**

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*WARRANTY CLAIMS:*

The above 'Re-Set' procedure should only be carried out following the repair conditions mentioned in the 'Problem' section, therefore use the appropriate MEMS system check SRO as per the SRO manual. This may be used in addition to the causal component SRO time.