

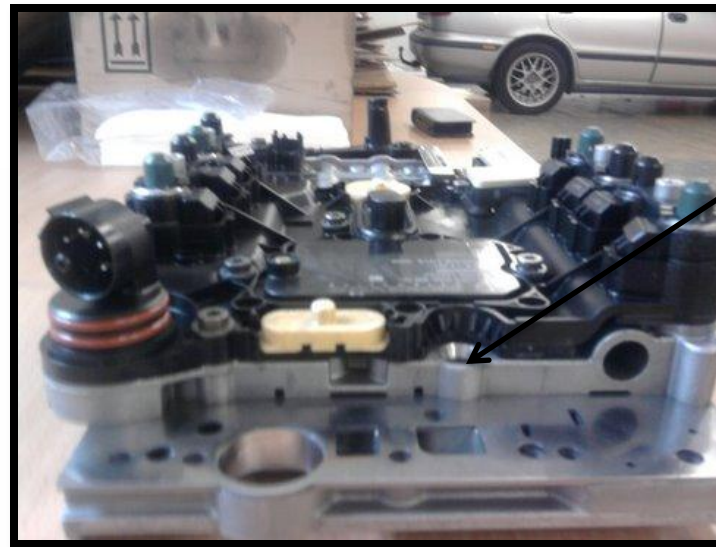
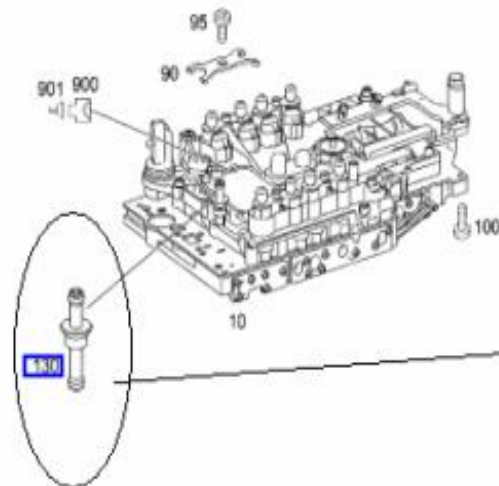


Mercedes-Benz 7-G SCN coding and programming

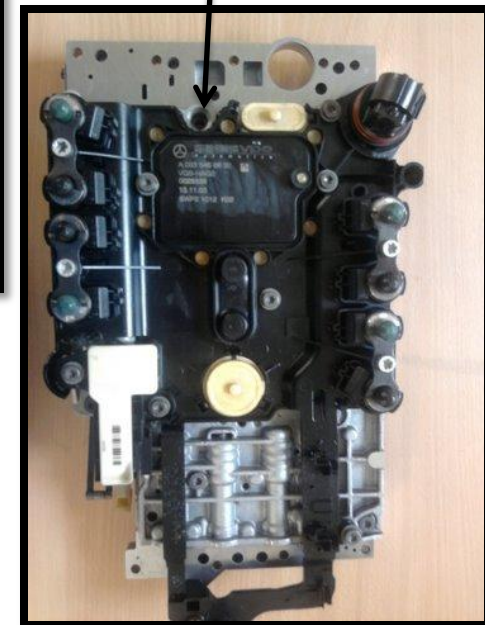
Screen by screen
process

Before starting the SCN coding it is worth remembering a few points.

1/ When fitting a new valve body to a 7g transmission care must be taken to remember to remove the oil feed pipe from the old valve body and swap it over with the new valve body, as failure to do this will result in loss of drive.

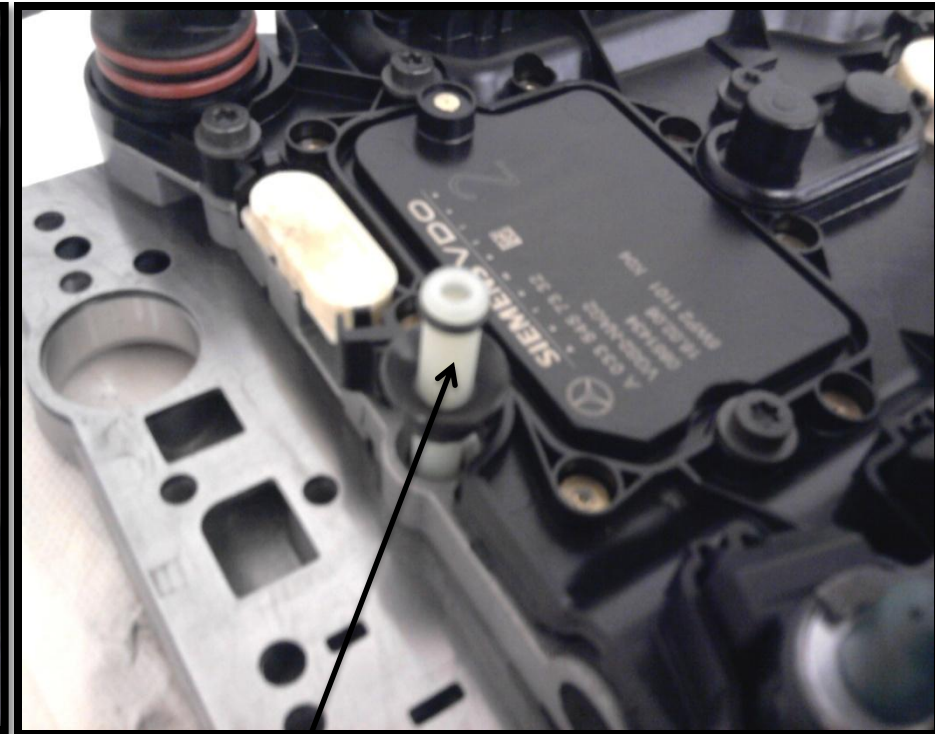
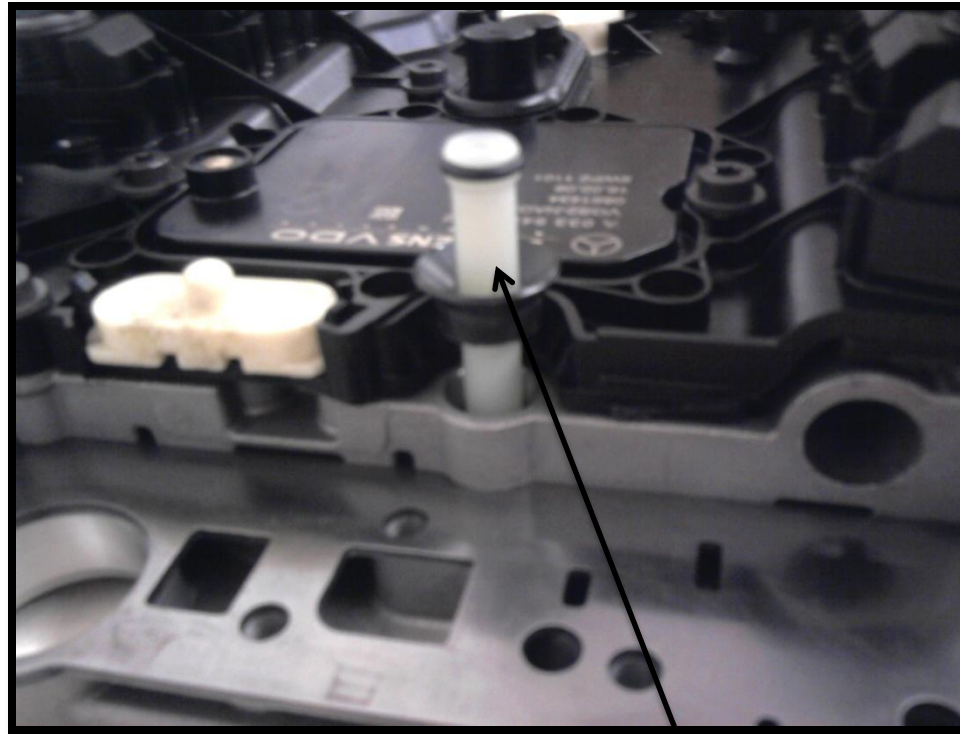


Oil feed pipe location



Oil filler pipe needs swapping over when fitting new valve body.

722.9 transmissions continued:



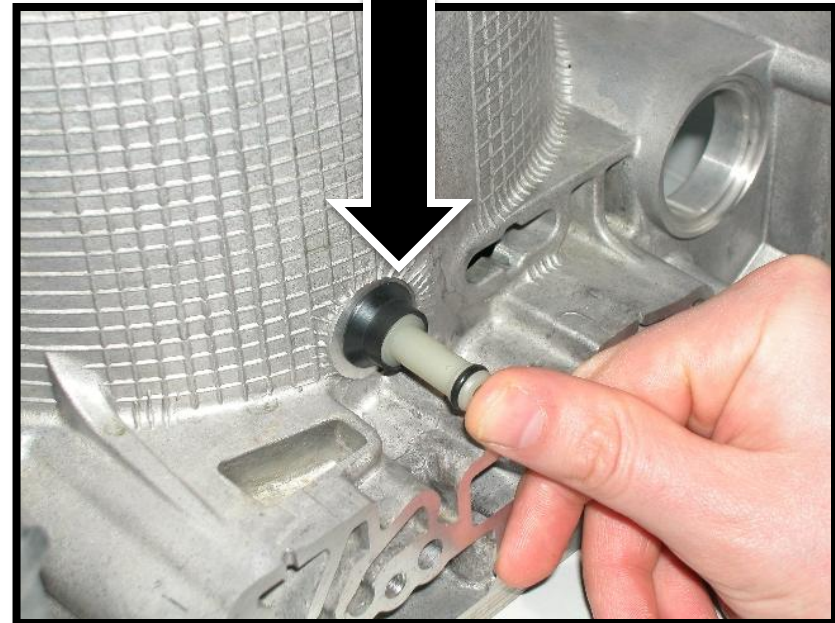
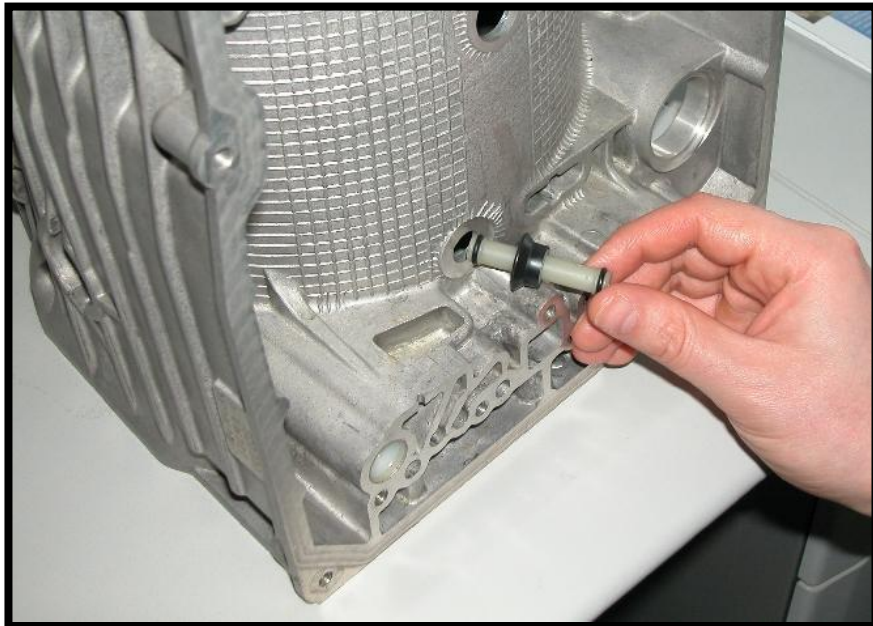
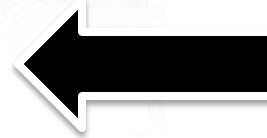
When replacing the valve body on the 722.9 gearbox remember to remove the oil feed pipe from the shown location ,and fit as next page suggests.

7-G SCN coding and programming

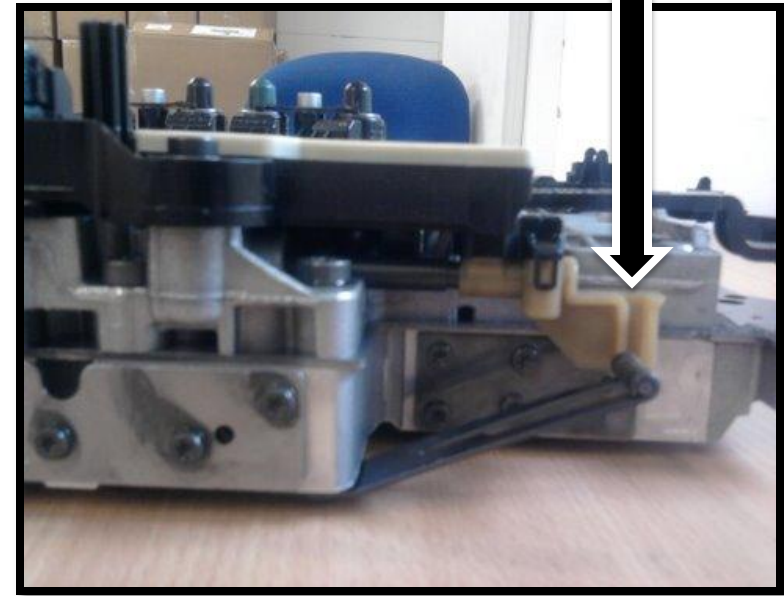
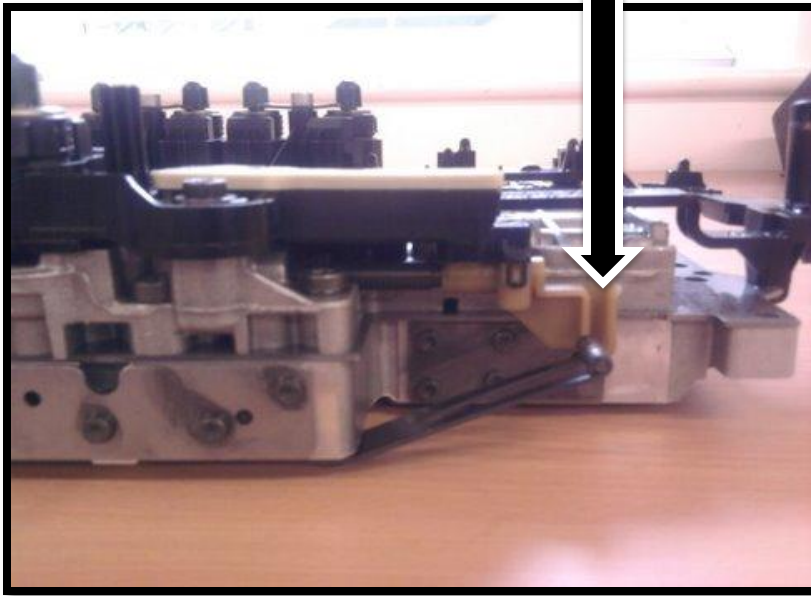
It is simpler to install the pipe into the gearbox (as shown here) and assemble the valve body on to it.



Make sure the oil feed hose is correctly and firmly installed from old valve body assembly



2/ When fitting a new 7g valve body it is important that the selector linkage is correctly located in the sliding gate, as it will be impossible to complete the start up procedure with autologic.



3/ When carrying out SCN coding and drive authorisation, it is essential that you have cleared all stored faults in all other control units, (especially engine ECU) and also have a good stable vehicle voltage : (battery charger correctly installed on the vehicle) . Also make sure the autologic is powered by its mains adapter. Failure to do this may result in SD flash programming failing and the control module may sustain permanent damage .

7-G SCN coding and programming

It is also worth remembering that if you are re-flashing the original 7-g transmission you will delete all previous saved gear change adaptation data. And the smoothness of gear changing may indeed be worse than before .

note: problems such as harsh gear changing are hardly ever cured by re-flashing the 7-g valve body , however if a re-flash or control unit programming is carried out the learning process for range selector must also be carried out ,failure to do this will result in harsh gear engagement or a possible non start situation. Also a long road test to carry out gear shift adaptations will also be required.

we have become aware that sometimes when fitting a 7-g transmission to a **ML-164** or **RCLASS -251** chassis range vehicle , If 7-g programming keeps failing it may be necessary to disconnect the ESP control unit electrically , and try again.

The same applies to 211-219 chassis with SBC or ABR or xenon headlights, disconnect and try again. This can be due to can bus excess traffic .

Re connect and clear codes when coding is complete .

caution

We would recommend that a short/quick test is carried out for all gearbox complaints and the Mercedes technical help desk is contacted before any 7-g transmission work is carried out . **Note-** an engine control unit update may also be required in some instances.

Always ensure that there are **no** stored fault codes in engine control unit before carrying out SCN or control unit programming , as this could cause a programming failure.

**Common code for Automatic transmission in limp-home mode,
fault codes P0717, P0718, P0722, P0723, P2767, P2768**

Complaint: Automatic transmission 722.9 switches to limp-home while driving (gearshifts no longer possible) and/or one or more of the following fault codes are stored or current: 0717, 0718, 0722, 0723, 2767, 2768

Cause: Rpm sensor fault : Component Y3/8n2 (Internal speed sensor (VGS2)) is defective/not available /or open circuit . Or The signal from component Y3/8n3 (Output speed sensor (VGS)) defective/not available /or open circuit . ([VGS2]).

NOTE : it is now possible to just replace the electric plate /control unit separately on the 7-G 722.9 transmission , only on VGS-2 and VGS-3 boxes.

The transmission control unit, which is bolted onto the electro hydraulic controller unit (EHS), may only be replaced using the EHS repair kit (A000 270 17 00).

Parts Rep. kit A 000 270 17 00 contains, among other things, VGS3 electrical kit, B3 oil guide pipe, oil filter, small parts, screws/bolts

NOTE: On vehicles with VGS-1 the whole 7-g valve body needs to be replaced as before. VGS 1 part numbers A 220 270 12 06 or A 220 270 14 06 or A220 270 10 06 or A220 270 11 06 (any of these numbers are a VGS 1 EHS controller)

Important

There are two different repair options for the 7-g gearbox ,it is important you select the correct repair procedure.

1/ only if the valve body has one or more of the following speed sensor fault codes stored or present,(**0717,0718,2767,2768,0722,0723,**) can you fit a sensor/control unit replacement part .

The part number of this kit is 000-270-17-00 (and is only valid on **vgs-2** and **vgs-3**)

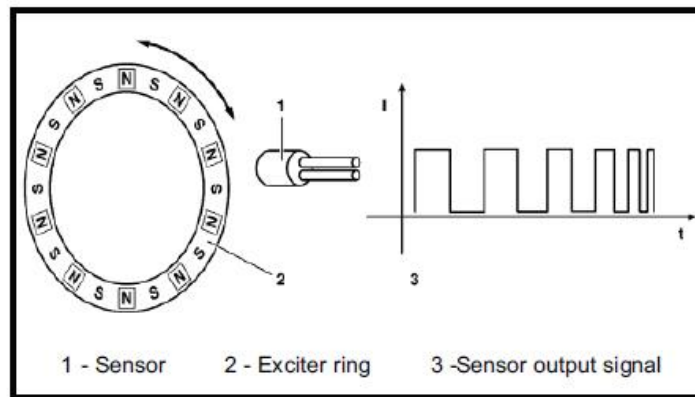
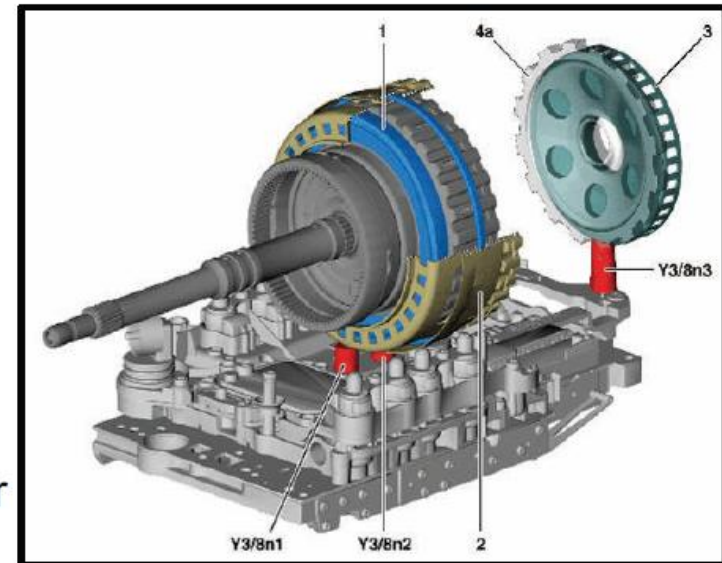
If other codes are present as well as speed sensor codes you **CANNOT** fit the repair kit.

2/ if you have any other codes as well as the speed sensor codes listed above the complete valve body must be replaced.

3/ if you cannot communicate with the old valve body you cannot fit the repair kit

Speed Sensors y3/8n1 & y3/8n2 & y3/8n3

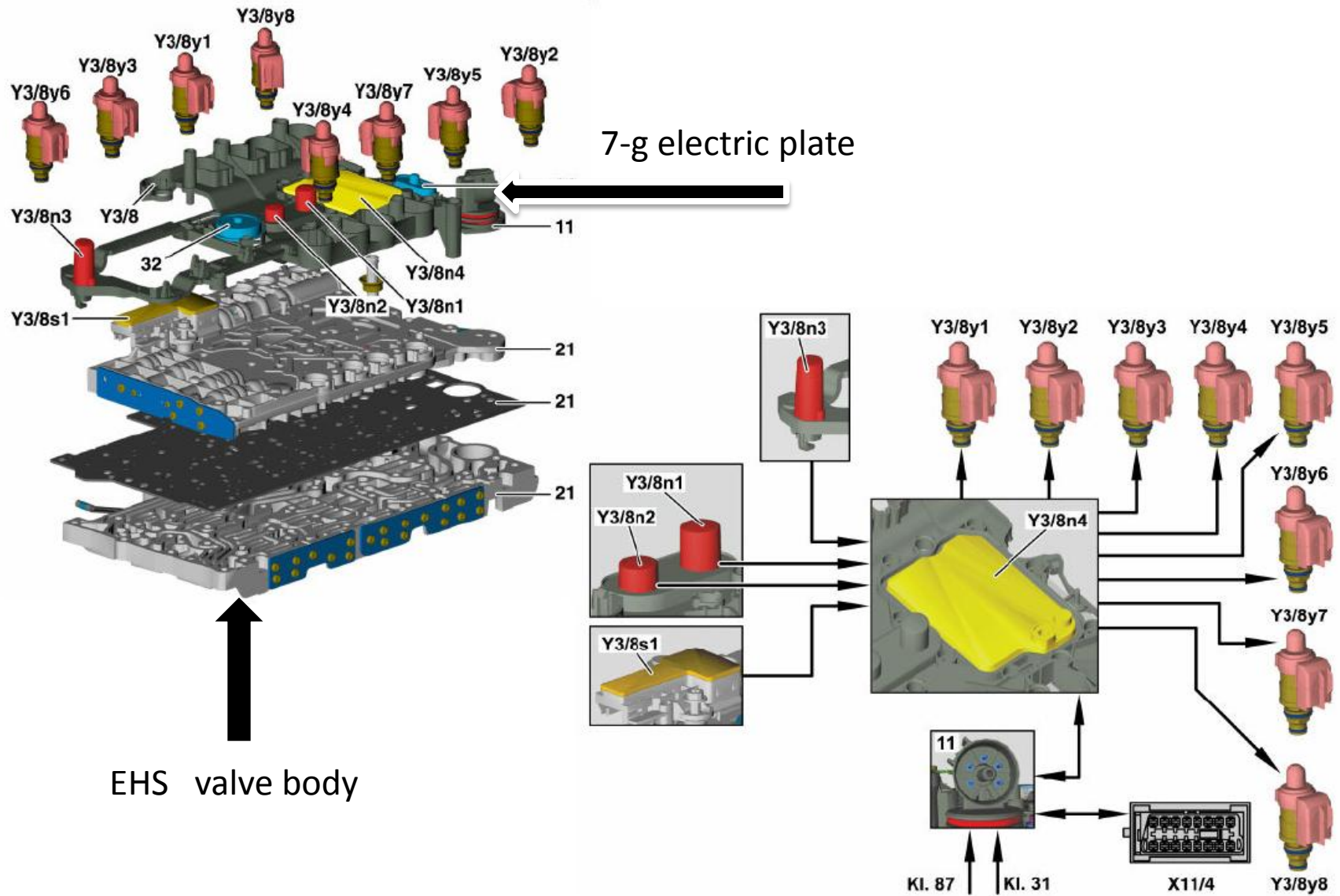
- Front speed sensor (Y3/8n1) monitors turbine speed (input shaft / small ring gear)
- Center speed sensor (Y3/8n2) monitors Ravigneaux planet carrier speed (ring gear of rear planetary gear set)
- These are active speed sensors
- Permits signal to be read through other non ferrous parts



- | | | |
|--|--------|---------------------|
| 1. Ring magnet | Y3/8n1 | Turbine rpm sensor |
| 2. Cylinder flange with integrated ring magnet | Y3/8n2 | Internal rpm sensor |
| 3. Exciter ring | Y3/8n3 | Output rpm sensor |
| 4a. Park pawl gear | | |

Note: Magnets are molded in plastic ring and secured inside aluminum flanges.

7-G SCN coding and programming



INITIAL STARTUP CHOICE

IMPORTANT ! :There are two different processes depending on what part is to be fitted. It's important you select the correct option.

• Only If the valve body has one of the following faults 0717,0718,2767,2768,0722,0723 can you fit Sensor replacement Part (The part number is 000-270-17-00 and is only valid on VGS2 and VGS3). First of all process all other fault codes. If other faults are present, or you cannot communicate to the old ECU you must replace the whole valve body. Select 'ECU+Electrics plate' option for this part.

• Sensor Replacement cannot be performed on the following transmissions A 220 270 10 06, A 220 270 11 06, A 220 270 12 06 and A 220 270 14 06 instead the whole valve body should be replaced.



PAGE 1 OF 2

The following screen shots are typical of the on screen displays shown when coding a new 722.9 (7g) transmission valve body or a control unit

Initial start up



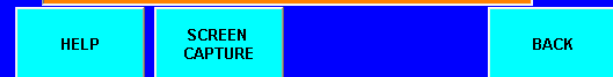
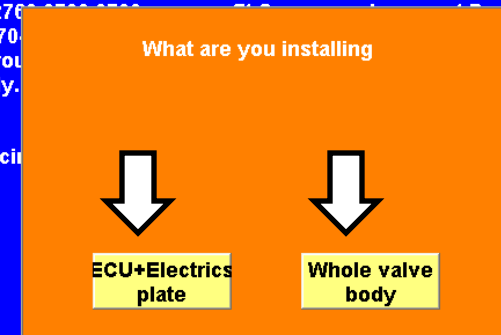
INITIAL STARTUP CHOICE

IMPORTANT ! :There are two different processes depending on what part is to be fitted. It's important you select the correct option.

• Only If the valve body has one of the following faults 0717,0718,2767,2768,0722,0723 can you fit Sensor replacement Part (The part number is 000-270-17-00 and is only valid on VGS2 and VGS3). First of all process all other fault codes. If other faults are present, or you cannot communicate to the old ECU you must replace the whole valve body. Select 'ECU+Electrics plate' option for this part.

• If you are replacing the whole valve body, you must select the 'Whole valve body' option

Initial startup



Choose between installing a complete valve body or just the ECU and electrics plate. (please see previous warning pages for conditions of just ECU replacement)



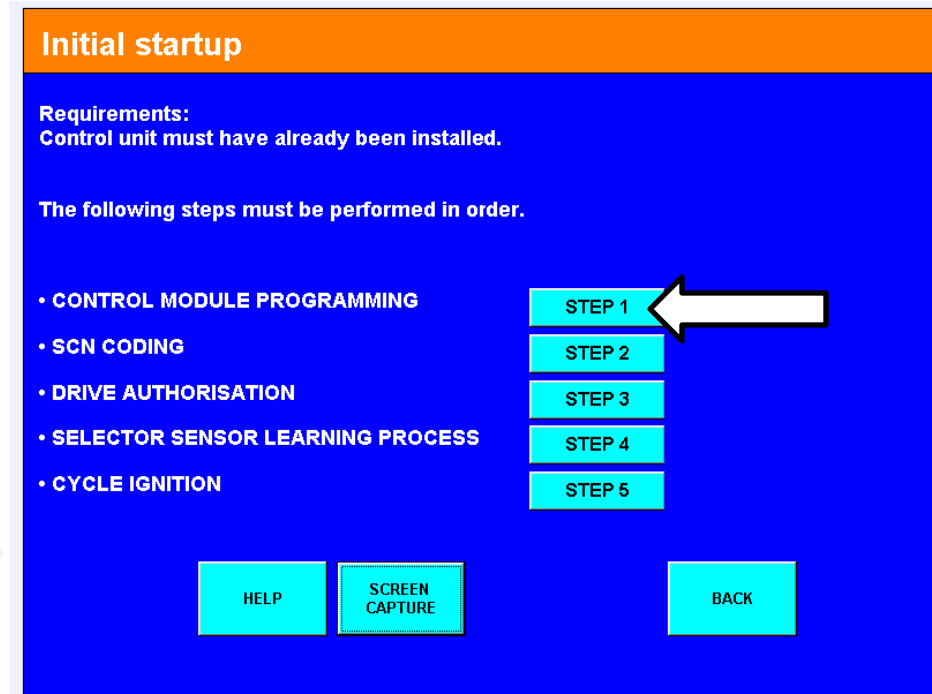
If replacing a complete valve body continue with the following screen shots .

If however you are only replacing the control unit/electric plate
**PLEASE JUMP TO THE LAST SECTION IN THIS WALKTHROUGH CALLED
(CONTROL UNIT/ELECTRIC PLATE REPLACEMENT PROCEDURE.)**

COMPLETE VALVE BODY REPLACEMENT

Five steps will be displayed in initial start up,
These must be performed in sequence.

Step 1: checks the new ECU for initial flash
programming update availability.



Initial startup

Requirements:
Control unit must have already been installed.

The following steps must be performed in order.

- CONTROL MODULE PROGRAMMING
- SCN CODING
- DRIVE AUTHORISATION
- SELECTOR SENSOR LEARNING PROCESS
- CYCLE IGNITION

STEP 1
STEP 2
STEP 3
STEP 4
STEP 5

HELP SCREEN CAPTURE BACK

Control module programming

This procedure will check if there is an SDFlash programming update available for this variant of 7G-Tronic transmission control unit and then will update the ECU if necessary.

The procedure is as follows :-

- Perform SDFlash programming update.
- Perform scn coding.

Begin programming procedure

Start



SCREEN
CAPTURE

BACK

Edit correct chassis number and confirm .

Step 1 SD flash programming

Begin procedure press start button.

Check VIN Status

Please check and correct if necessary the vehicle VIN using the 'EDIT' button below. This will be used to determine the programming file required for this variant of ETC-7G. Please note that the VIN will not be downloaded to the control module. The standard VIN format for this vehicle is displayed below. This conversion is for information only purposes and is only relevant for north american vehicles.

Vehicle ident no. (VIN)

WDD2211562A0470

Edit

Standard VIN format

WDD2211562A047091

Confirm VIN is correct

CONFIRM



Press 'CONFIRM' if the VIN is correct then press 'CONTINUE'.

SCREEN
CAPTURE

BACK

Check VIN Status

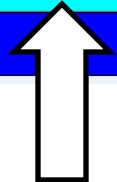
Please check and correct if necessary the vehicle VIN using the 'EDIT' button below. This will be used to determine the programming file required for this variant of ETC-7G. Please note that the VIN will not be downloaded to the control module. The standard VIN format for this vehicle is displayed below. This conversion is for information only purposes and is only relevant for north american vehicles.

Vehicle ident no. (VIN)

Standard VIN format

Confirm VIN is correct

Press 'CONFIRM' if the VIN is correct then press 'CONTINUE'.



Step 1 SD flash programming

Check for SDFlash Update

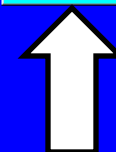
Current software version information ETC 7G-Tronic:-

MB Object number for hardware

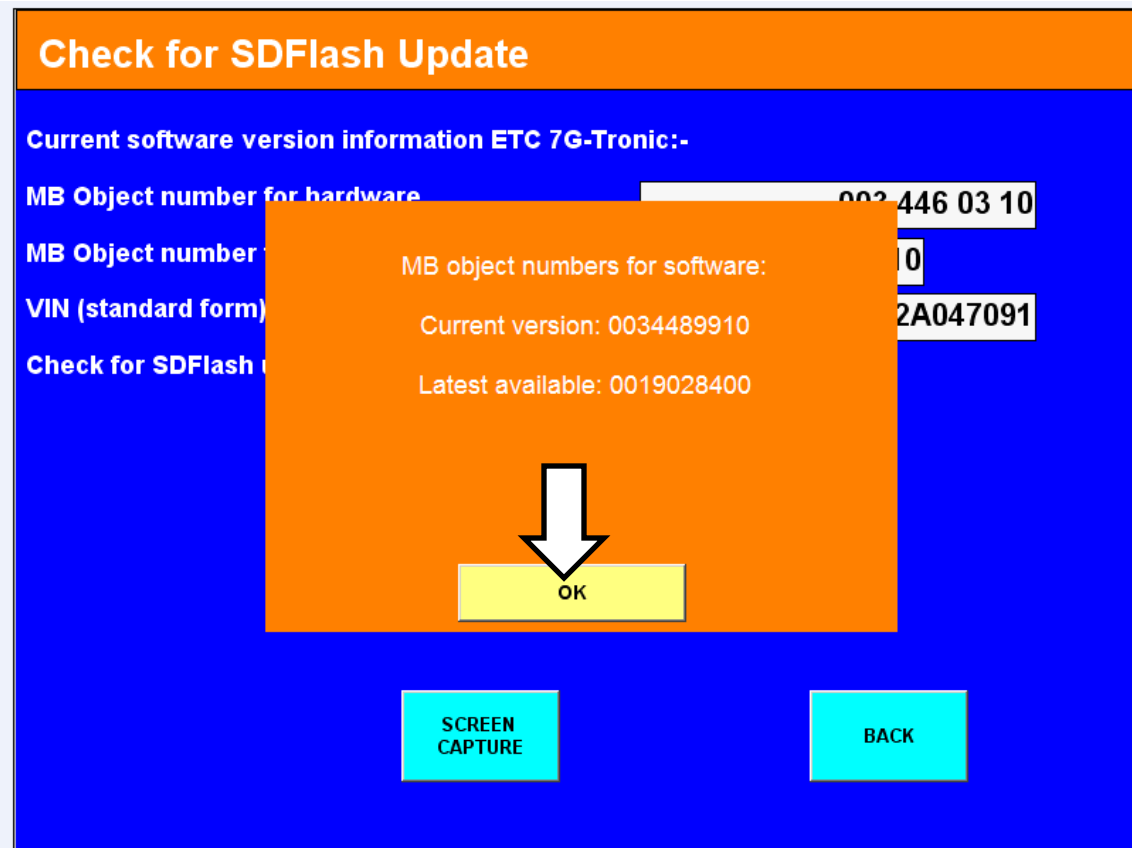
MB Object number for software

VIN (standard form)

Check for SDFlash Update



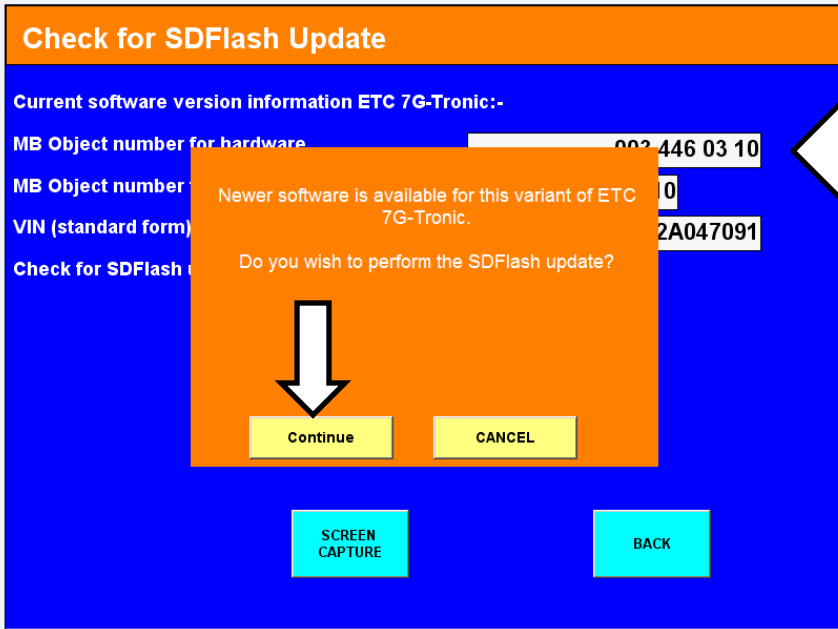
Step 1 SD flash programming



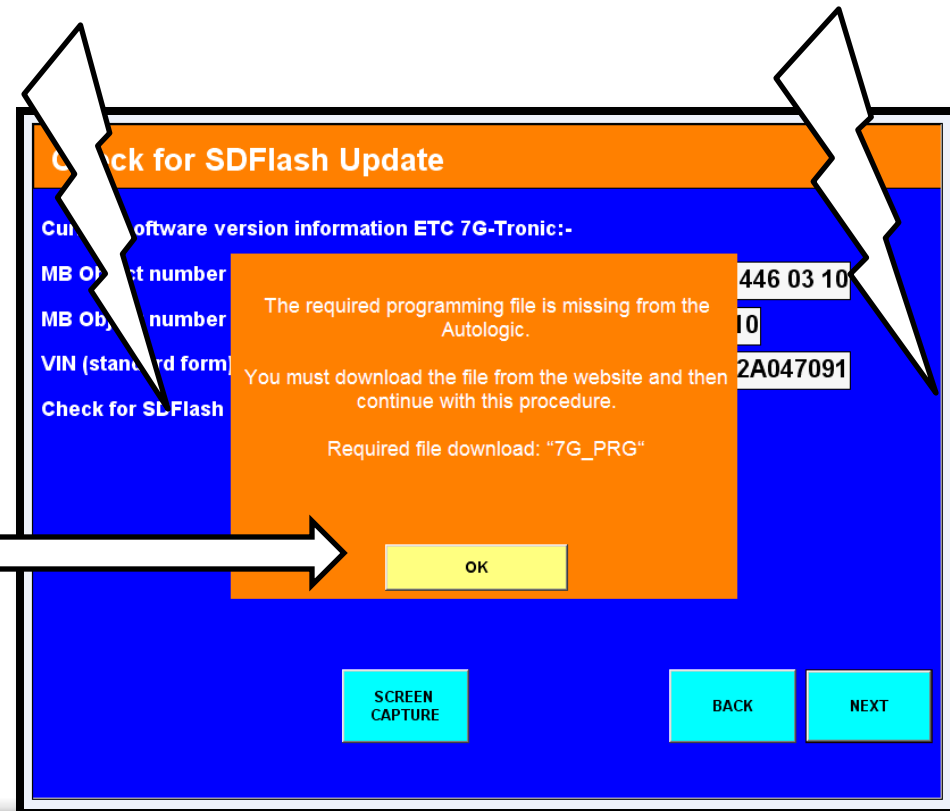
The next screen shows the two possible screens that may be displayed
And the options are explained on the following page

Step 1 SD flash programming

Screen displayed if file is known on autologic



Note at this point if the file is **not** found on autologic you may get the following message displayed. This means you will be required to visit the autologic web site to download file "7G-PRG" file , and then try SD flashing again.



Check for SDFlash Update

Current software version information ETC 7G-Tronic:-

MB Object number for hardware

MB Object number for software

VIN (standard form)

Check for SDFlash Update

SCREEN
CAPTURE

BACK

next

Step 1 SD flash programming

When the flash file is known to autologic the sequence /screen shots are as follows.

Programming File Status

Required programming files :-

- File 1
- File status

If the file is not found, please make sure you have downloaded the 7G_PRG programming archive from the Autologic website.

SCREEN
CAPTURE

BACK

NEXT

7-G SCN coding and programming

Perform SDFlash Programming

The required programming files are present on the Autologic®.

WARNING :-
Sufficient voltage must be available throughout the procedure. Connect a vehicle battery charger if necessary. A drop in supply voltage during programming could damage the control module beyond repair. Once begun, do not interrupt the programming procedure under any circumstances as this could lead to permanent damage to the control module.

To begin programming the ETC 7G-Tronic control module press the 'Start' button below.

Start programming

Start

HELP

SCREEN
CAPTURE

BACK

Step 1 SD flash programming

Perform SDFlash Programming

The required programming files are present on the Autologic®.

WARNING :-
Sufficient voltage must be available throughout the procedure. Connect a vehicle battery charger if necessary. A drop in supply voltage during programming could damage the control module beyond repair. Once begun, do not interrupt the programming procedure under any circumstances as this could lead to permanent damage to the control module.

To begin programming the ETC 7G-Tronic control module press the 'Start' button below.

Start programming

WARNING!

It is absolutely essential that a good vehicle battery charger / power supply is attached to the vehicle and the Autologic is powered by its mains adapter.

Failure to do this may result in SDFlash programming failing and the control module may sustain permanent damage!

When connected click 'OK' to continue.

OK

HELP

SCREEN
CAPTURE

BACK

Perform SDFlash Programming

The required programming files are present on the Autologic®.

WARNING :-
Sufficient voltage of the vehicle battery should be maintained during programming. If the voltage drops, programming could be interrupted, which could lead to programming failure.

SDFlash programming is about to begin. You will see several progress bars during programming and will get a confirmation message when the procedure has completed.

Click 'Continue' to begin programming or 'Cancel' to exit the procedure.

To begin programming, click the button below.

Start programming



Continue

CANCEL

HELP

SCREEN
CAPTURE

BACK

Step 1 SD flash programming

Perform SDFlash Programming

The required programming files are present on the Autologic®.

WARNING :-
Sufficient voltage of the vehicle battery should be maintained during programming. If the voltage drops, programming could be interrupted, which could lead to programming failure.

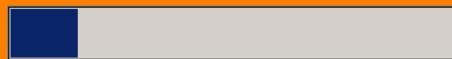
Multi block SDFlash programming is being carried out. Software version: 0019028400

Please wait

To begin programming, click the button below.

Start programming

Programming is being carried out.
Please wait...

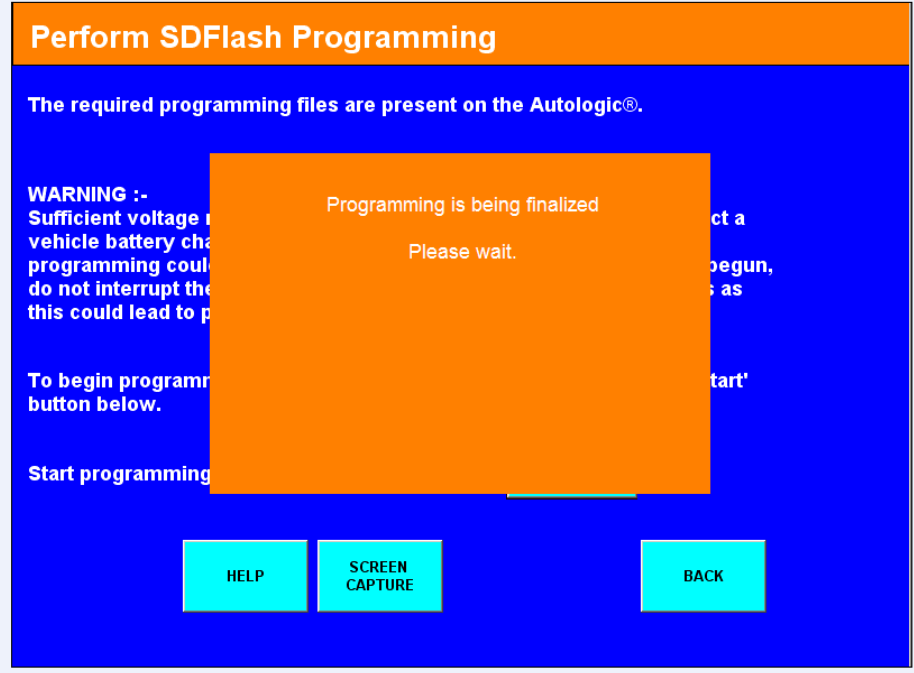


HELP

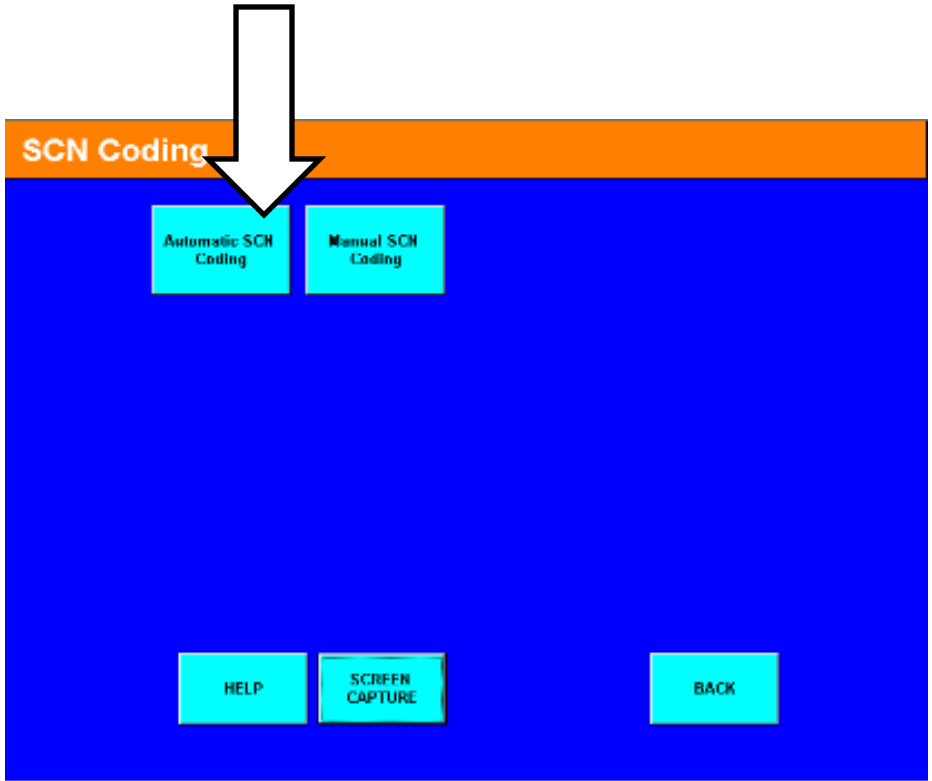
CAPTURE

BACK

7-G SCN coding and programming



When SD flash programming is **complete**
Move to **STEP 2 SCN CODING**



Perform SCN Coding

INSTRUCTIONS:

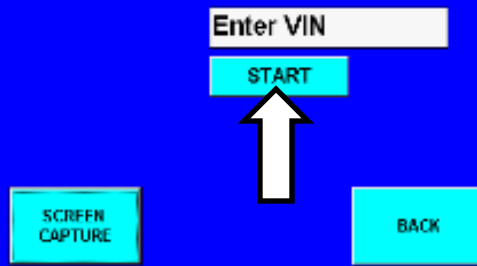
• Enter the chassis number of your vehicle using the 'start' button below. This will attempt to retrieve the SCN coding data. If the data is found Autologic will automatically proceed to the SCN coding page.

NOTE:

• SCN data can only be retrieved if it has already been requested. If you haven't yet requested SCN data for this vehicle, enter the chassis number using the 'START' button. This will automatically save a log file with the necessary information for SCN coding.

Status

Chassis number



The screenshot shows a blue background with a white text area. At the top, there is a white box labeled 'Enter VIN'. Below it is a red button labeled 'START'. To the left of the 'START' button is a red button labeled 'SCREEN CAPTURE', and to the right is a red button labeled 'BACK'. A white arrow points upwards from the 'START' button.

Step 2: SCN automatic coding .

Enter the chassis number and press start
This will generate a message saying

THE SCN DATA FOR THIS VEHICLE COULD NOT BE RETRIEVED.

A LOG HAS BEEN GENERATED .PLEASE SEND THIS LOG TO AUTOLOGIC TO REQUEST THE SCN DATA .

Once the log has been received the SCN code will be generated by autologic software department and you will be

contacted by telephone and asked to download the latest Mercedes update .

once update has been downloaded ,try automatic SCN coding again and this time it will be successful. After the completion of SCN coding move on to **step 3**.

See following page :



STEP 3 DRIVE AUTHORISATION

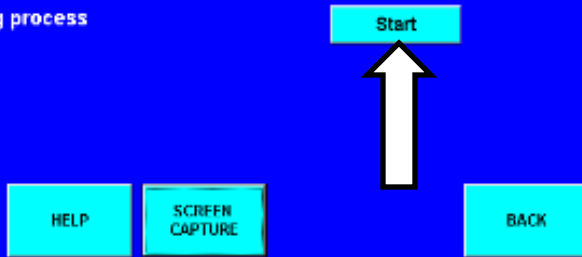


SELECTOR SENSOR LEARNING PROCESS

Important note: Secure vehicle to prevent it moving away.

- This procedure teaches in the vgs selector range sensor (Y3/8S1).
- Follow the guided steps and place the gear selector in the required gear when instructed to. Placement of the selector in an incorrect gear during this teaching process will result in an incorrectly taught transmission, and the procedure will need to be restarted for correct calibration.

Initiate learning process



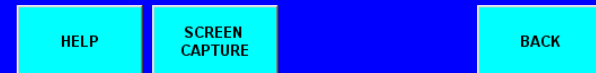
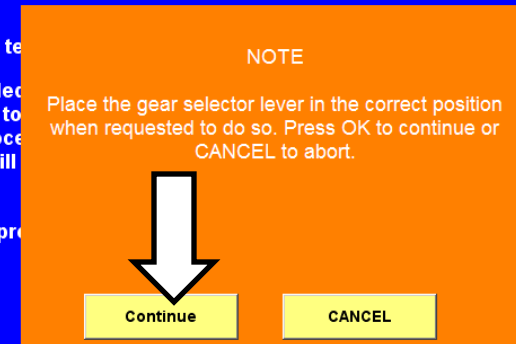
(Step 4) Selector sensor learning process

Selector Sensor Learning Process

Important note: Secure vehicle to prevent it moving away.

- This procedure teaches in the vgs selector range sensor (Y3/8S1).
- Follow the guided steps and place the gear selector in the required gear when instructed to. Placement of the selector in an incorrect gear during this teaching process will result in an incorrectly taught transmission, and the procedure will need to be restarted for correct calibration.

Initiate learning process



Once ok has been pressed you will be asked to place selector lever in various positions starting with park –reverse-neutral- drive - and process complete message .

Selector Sensor Learning Process

Important note: Secure vehicle to prevent it moving away.

- This procedure teaches the gear selector sensor.
- Follow the guided procedure when instructed to initiate this teaching procedure and the procedure will complete.

Place the gear selector in position 'P' and press OK to continue

OK

HELP

SCREEN
CAPTURE

BACK

(Step 4) Selector sensor learning process

Selector Sensor Learning Process

Important note: Secure vehicle to prevent it moving away.

- This procedure teaches the gear selector sensor.
- Follow the guided procedure when instructed to initiate this teaching procedure and the procedure will complete.

Place the gear selector in position 'R' and press OK

OK

HELP

SCREEN
CAPTURE

BACK

Selector Sensor Learning Process

Important note: Secure vehicle to prevent it moving away.

- This procedure teaches the gear selector sensor.
- Follow the guided procedure when instructed to initiate learning and the procedure will complete.

Initiate learning procedure

Place the gear selector in position 'N' and press OK



OK

HELP

SCREEN
CAPTURE

BACK

(Step 4) Selector sensor learning process

Selector Sensor Learning Process

Important note: Secure vehicle to prevent it moving away.

- This procedure teaches the gear selector sensor.
- Follow the guided procedure when instructed to initiate learning and the procedure will complete.

Initiate learning procedure

Place the gear selector in position 'D' and press OK



OK

HELP

SCREEN
CAPTURE

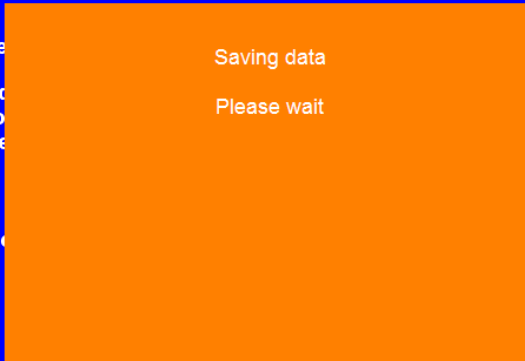
BACK

Selector Sensor Learning Process

Important note: Secure vehicle to prevent it moving away.

- This procedure te
- Follow the guided when instructed to this teaching proce the procedure will

Initiate learning pro



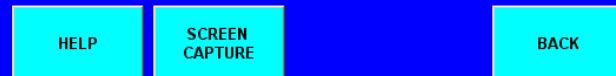
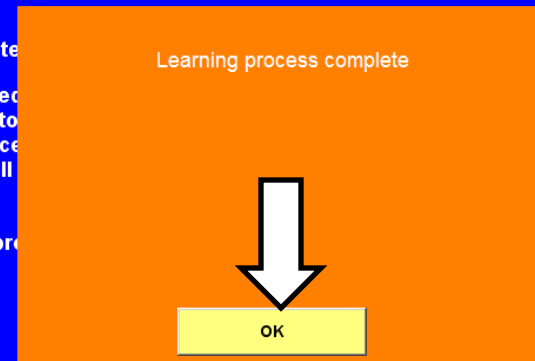
(Step 4) Selector sensor learning process

Selector Sensor Learning Process

Important note: Secure vehicle to prevent it moving away.

- This procedure te
- Follow the guided when instructed to this teaching proce the procedure will

Initiate learning pro



Selector sensor learning process Complete



Step 5 cycle ignition

Initial Startup

Requirements:
Control unit must have already been installed.

The following step

Turn Off Ignition
Then Click OK To Continue.

• CONTROL MODU
• SCN CODING
• DRIVE AUTHORIS
• SELECTOR SENS
• CYCLE IGNITION

OK

HELP SCREEN CAPTURE BACK

Initial Startup

Requirements:
Control unit must have already been installed.

The following step

Turn On Ignition
Then Click OK To Continue.

• CONTROL MODU
• SCN CODING
• DRIVE AUTHORIS
• SELECTOR SENS
• CYCLE IGNITION

OK

HELP SCREEN CAPTURE BACK

Initial Startup

Requirements:
Control unit must have already been installed.

The following step

Cycle of ignition is complete

• CONTROL MODU
• SCN CODING
• DRIVE AUTHORIS
• SELECTOR SENS
• CYCLE IGNITION

OK

HELP SCREEN CAPTURE BACK

Clear error codes in vehicle and carry out gear change adaptation road test. After smooth changes adapted, the process is complete.

**END OF COMPLETE VALVE BODY
CODING INFORMATION**

Please continue to next page for electric plate repair

THE FOLLOWING PAGES ONLY ARE ONLY IF YOU ARE REPLACING THE CONTROL UNIT /ELECTRIC PLATE WITH PART NUMBER 000 270 17 00

OLD UNIT MUST STILL BE FITTED TO VEHICLE

INITIAL STARTUP CHOICE

IMPORTANT ! :There are two different processes depending on what part is to be fitted. It's important you select the correct option.

- Only If the valve body has one of the following faults 0717,0718,2767,2768,0722,0723 can you fit Sensor replacement Part (The part number is 000-270-17-00 and is only valid on VGS2 and VGS3). First of all process all other fault codes. If other faults are present, or you cannot communicate to the old ECU you must replace the whole valve body. Select 'ECU+Electrics plate' option for this part.

- Sensor Replacement cannot be performed on the following transmissions A 220 270 10 06, A 220 270 11 06,A 220 270 12 06 and A 220 270 14 06 instead the whole valve body should be replaced.

HELP

SCREEN
CAPTURE

BACK

NEXT

PAGE 1 OF 2

INITIAL STARTUP CHOICE

- If you are replacing the whole valve body select the 'Whole valve body' option

Initial startup

start

HELP

SCREEN
CAPTURE

BACK

PAGE 2 OF 2

7-G PROGRAMMING OF CONTROL UNIT /ELECTRIC PLATE ONLY WHEN REPLACING WITH PART NUMBER 000 270 17 00

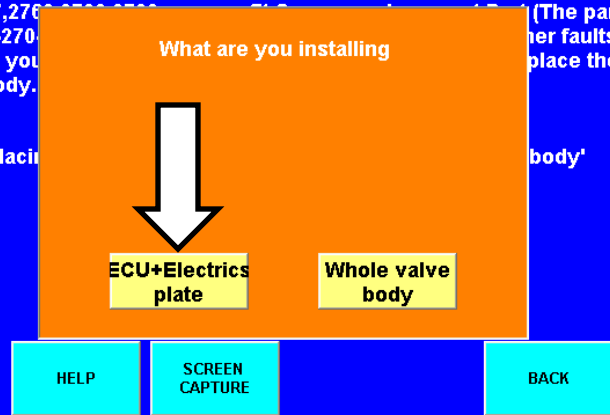
INITIAL STARTUP CHOICE

IMPORTANT ! :There are two different processes depending on what part is to be fitted. It's important you select the correct option.

• Only If the valve body has one of the following faults 0717,0718,2767,2768,2769,2770,2771,2772,2773,2774,2775,2776,2777,2778,2779,2780,2781,2782,2783,2784,2785,2786,2787,2788,2789,2790,2791,2792,2793,2794,2795,2796,2797,2798,2799,2800,2801,2802,2803,2804,2805,2806,2807,2808,2809,2810,2811,2812,2813,2814,2815,2816,2817,2818,2819,2820,2821,2822,2823,2824,2825,2826,2827,2828,2829,2830,2831,2832,2833,2834,2835,2836,2837,2838,2839,2840,2841,2842,2843,2844,2845,2846,2847,2848,2849,2850,2851,2852,2853,2854,2855,2856,2857,2858,2859,2860,2861,2862,2863,2864,2865,2866,2867,2868,2869,2870,2871,2872,2873,2874,2875,2876,2877,2878,2879,2880,2881,2882,2883,2884,2885,2886,2887,2888,2889,2890,2891,2892,2893,2894,2895,2896,2897,2898,2899,2900,2901,2902,2903,2904,2905,2906,2907,2908,2909,2910,2911,2912,2913,2914,2915,2916,2917,2918,2919,2920,2921,2922,2923,2924,2925,2926,2927,2928,2929,2930,2931,2932,2933,2934,2935,2936,2937,2938,2939,2940,2941,2942,2943,2944,2945,2946,2947,2948,2949,2950,2951,2952,2953,2954,2955,2956,2957,2958,2959,2960,2961,2962,2963,2964,2965,2966,2967,2968,2969,2970,2971,2972,2973,2974,2975,2976,2977,2978,2979,2980,2981,2982,2983,2984,2985,2986,2987,2988,2989,2990,2991,2992,2993,2994,2995,2996,2997,2998,2999,3000 (The part number is 000-270-17-00) are present, or you are replacing the whole valve body.

• If you are replacing the control unit with the 'ECU+Electric plate' option

Initial startup



THE FOLLOWING PAGES ONLY ARE ONLY IF YOU ARE REPLACING THE CONTROL UNIT /ELECTRIC PLATE WITH PART NUMBER 000 270 17 00 OLD UNIT MUST STILL BE FITTED TO VEHICLE

Step 1 read old ECU data

INITIAL START-UP FOR SENSOR REPLACEMENT

Requirements:
The Old Control unit must still be installed.

The following steps must be performed in order.

Note: Do not remove the old ECU until step one has been completed.

• READ OF OLD ECU



Note: If you have already done this Please continue onto the next page.



7-G PROGRAMMING OF CONTROL UNIT /ELECTRIC PLATE ONLY WHEN REPLACING WITH PART NUMBER 000 270 17 00

ECU READ OF OLD UNIT

This data must be read from the old unit with speed sensor faults before new module can be fitted.

Vehicle Ident No. (VIN)

WDC1641862A0377

Standard VIN format

WDC1641862A037741

Data Request



Step 1 read old ECU data

ECU READ OF OLD UNIT

This data must be read from the old unit with speed sensor faults before new module can be fitted.

Vehicle Ident No. (VIN)

Reading data
Please wait

WDC1641862A0377

Standard VIN format

WDC1641862A037741

Data Request

7-G PROGRAMMING OF CONTROL UNIT /ELECTRIC PLATE ONLY WHEN REPLACING WITH PART NUMBER 000 270 17 00

INITIAL START-UP FOR SENSOR REPLACEMENT

Requirements:
The Old Control unit must still be installed.

The following step

Note: Do not remove the old ECU until the process has finished.

• READ OF OLD ECU

Note: If you have a fault code stored in the old ECU, it will be read and stored in the new ECU.

Now Remove old ECU and Fit new ECU before continuing

this process will now exit

OK

HELP SCREEN CAPTURE BACK NEXT

PAGE 1 OF 2

Step 1 read old ECU data

After pressing ok the autologic will close and the valve body must be removed and the control unit /electric plate must be replaced and re-installed in the vehicle and the autologic reconnected.

Connect autologic and Then follow the initial start up menu as before.

INITIAL STARTUP CHOICE

IMPORTANT ! :There are two different processes depending on what part is to be fitted. It's important you select the correct option.

- Only If the valve body has one of the following faults 0717,0718,2767,2768,0722,0723 can you fit Sensor replacement Part (The part number is 000-270-17-00 and is only valid on VGS2 and VGS3). First of all process all other fault codes. If other faults are present, or you cannot communicate to the old ECU you must replace the whole valve body. Select 'ECU+Electrics plate' option for this part.
- Sensor Replacement cannot be performed on the following transmissions A 220 270 10 06, A 220 270 11 06,A 220 270 12 06 and A 220 270 14 06 instead the whole valve body should be replaced.

HELP SCREEN CAPTURE BACK NEXT

PAGE 1 OF 2

7-G PROGRAMMING OF CONTROL UNIT /ELECTRIC PLATE ONLY WHEN REPLACING WITH PART NUMBER 000 270 17 00

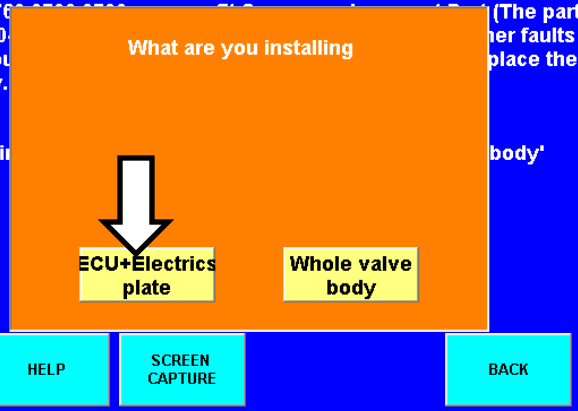
INITIAL STARTUP CHOICE

IMPORTANT ! :There are two different processes depending on what part is to be fitted. It's important you select the correct option.

• Only if the valve body has one of the following faults 0717,0718,2767,2768,2769,2770,2771,2772,2773,2774,2775,2776,2777,2778,2779,2780,2781,2782,2783,2784,2785,2786,2787,2788,2789,2790,2791,2792,2793,2794,2795,2796,2797,2798,2799,2800,2801,2802,2803,2804,2805,2806,2807,2808,2809,2810,2811,2812,2813,2814,2815,2816,2817,2818,2819,2820,2821,2822,2823,2824,2825,2826,2827,2828,2829,2830,2831,2832,2833,2834,2835,2836,2837,2838,2839,2840,2841,2842,2843,2844,2845,2846,2847,2848,2849,2850,2851,2852,2853,2854,2855,2856,2857,2858,2859,2860,2861,2862,2863,2864,2865,2866,2867,2868,2869,2870,2871,2872,2873,2874,2875,2876,2877,2878,2879,2880,2881,2882,2883,2884,2885,2886,2887,2888,2889,2890,2891,2892,2893,2894,2895,2896,2897,2898,2899,2900,2901,2902,2903,2904,2905,2906,2907,2908,2909,2910,2911,2912,2913,2914,2915,2916,2917,2918,2919,2920,2921,2922,2923,2924,2925,2926,2927,2928,2929,2930,2931,2932,2933,2934,2935,2936,2937,2938,2939,2940,2941,2942,2943,2944,2945,2946,2947,2948,2949,2950,2951,2952,2953,2954,2955,2956,2957,2958,2959,2960,2961,2962,2963,2964,2965,2966,2967,2968,2969,2970,2971,2972,2973,2974,2975,2976,2977,2978,2979,2980,2981,2982,2983,2984,2985,2986,2987,2988,2989,2990,2991,2992,2993,2994,2995,2996,2997,2998,2999,3000 (The part number is 000-270-17-00) are present, or you are replacing the whole valve body.

• If you are replacing the 'valve body' option

Initial startup



Step 1 read old ECU data

INITIAL START-UP FOR SENSOR REPLACEMENT

Requirements:
The Old Control unit must still be installed.

The following steps must be performed in order.

Note: Do not remove the old ECU until step one has been completed.

• READ OF OLD ECU

Step 1

Note: If you have already done this Please continue onto the next page.



7-G PROGRAMMING OF CONTROL UNIT /ELECTRIC PLATE ONLY WHEN REPLACING WITH PART NUMBER 000 270 17 00

INITIAL START-UP FOR SENSOR REPLACEMENT

NOTE: Old ECU data should have been read and New ECU should be fitted

- WRITE EHS NUMBER (AFTER OLD ECU READ)
- CONTROL MODULE PROGRAMMING (AFTER EHS WRITE)
- SCN CODING
- WRITE DATA TO NEW ECU(After SCN is complete)
- DRIVE AUTHORISATION
- SELECTOR SENSOR LEARNING PROCESS
- CYCLE IGNITION

- STEP 2
- STEP 3
- STEP 4
- STEP 5
- STEP 6
- STEP 7
- STEP 8

HELP

SCREEN
CAPTURE

BACK

PAGE 2 OF 2

Step 2 write EHS number _

WRITE EHS NUMBER

Note: This data must have been read from the old unit with speed sensor faults before new module can be fitted.

Vehicle Ident No. (VIN)

WDC1641862A0377

Edit

Standard VIN format

WDC1641862A037741

You must have already Read this data From the OLD ECU.

WRITE EHS number

Write

HELP

SCREEN
CAPTURE

BACK

7-G PROGRAMMING OF CONTROL UNIT /ELECTRIC PLATE ONLY WHEN REPLACING WITH PART NUMBER 000 270 17 00

WRITE EHS NUMBER

Note: This data must have been read from the old unit with speed sensor faults before new module can be fitted.


Vehicle Ident No. (VIN)

Standard VIN form

You must have already read the VIN from the old unit.

WRITE EHS number

The Process is now complete.
Continue on to step 3



Step 2 write EHS number

INITIAL START-UP FOR SENSOR REPLACEMENT

NOTE: Old ECU data should have been read and New ECU should be fitted

- WRITE EHS NUMBER (AFTER OLD ECU READ)
- CONTROL MODULE PROGRAMMING (AFTER EHS WRITE)
- SCN CODING

- WRITE DATA TO NEW ECU(After SCN is complete)
- DRIVE AUTHORISATION

- SELECTOR SENSOR LEARNING PROCESS

- CYCLE IGNITION

PAGE 2 OF 2

7-G PROGRAMMING OF CONTROL UNIT /ELECTRIC PLATE ONLY WHEN REPLACING WITH PART NUMBER 000 270 17 00

Control module programming

This procedure will check if there is an SDFlash programming update available for this variant of 7G-Tronic transmission control unit and then will update the ECU if necessary.

The procedure is as follows :-

- Perform SDFlash programming update.
- Perform scn coding.

Begin programming procedure

Start

SCREEN CAPTURE

BACK

Step 3

SD flash programming

Begin procedure press start button.

Edit correct chassis number and confirm .

Check VIN Status

Please check and correct if necessary the vehicle VIN using the 'EDIT' button below. This will be used to determine the programming file required for this variant of ETC-7G. Please note that the VIN will not be downloaded to the control module. The standard VIN format for this vehicle is displayed below. This conversion is for information only purposes and is only relevant for north american vehicles.

Vehicle ident no. (VIN) Edit

Standard VIN format

Confirm VIN is correct

Press 'CONFIRM' if the VIN is correct then press 'CONTINUE'.

SCREEN CAPTURE

BACK

7-G PROGRAMMING OF CONTROL UNIT /ELECTRIC PLATE ONLY WHEN REPLACING WITH PART NUMBER 000 270 17 00



Check VIN Status

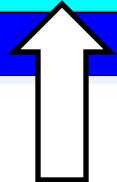
Please check and correct if necessary the vehicle VIN using the 'EDIT' button below. This will be used to determine the programming file required for this variant of ETC-7G. Please note that the VIN will not be downloaded to the control module. The standard VIN format for this vehicle is displayed below. This conversion is for information only purposes and is only relevant for north american vehicles.

Vehicle ident no. (VIN)

Standard VIN format

Confirm VIN is correct

Press 'CONFIRM' if the VIN is correct then press 'CONTINUE'.



Step 3 SD flash programming

Check for SDFlash Update

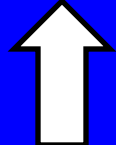
Current software version information ETC 7G-Tronic:-

MB Object number for hardware

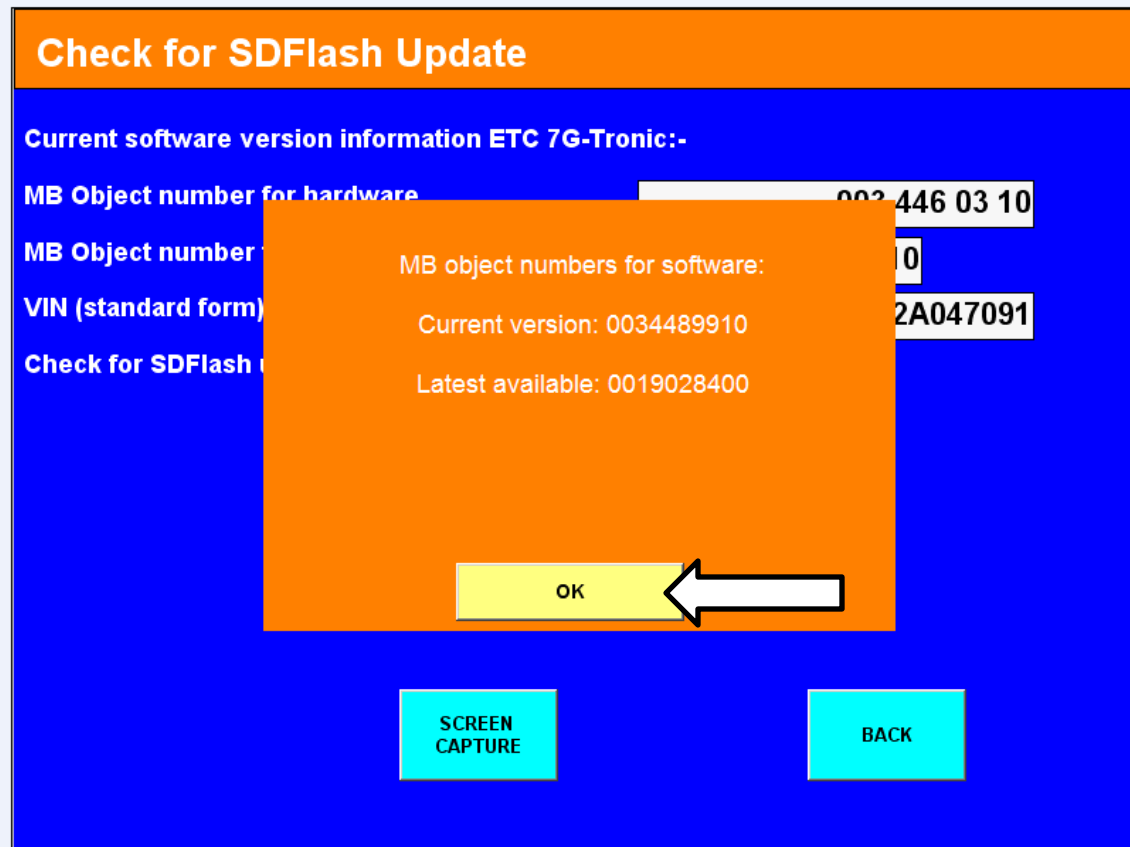
MB Object number for software

VIN (standard form)

Check for SDFlash Update

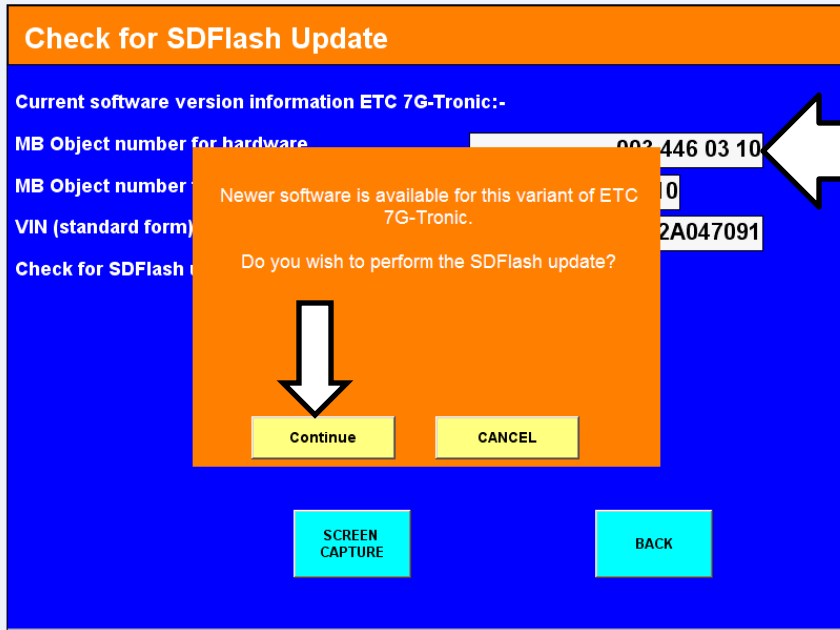


Step 3 SD flash programming



The next screen shows the two possible screens that may be displayed
And the options are explained on the following page

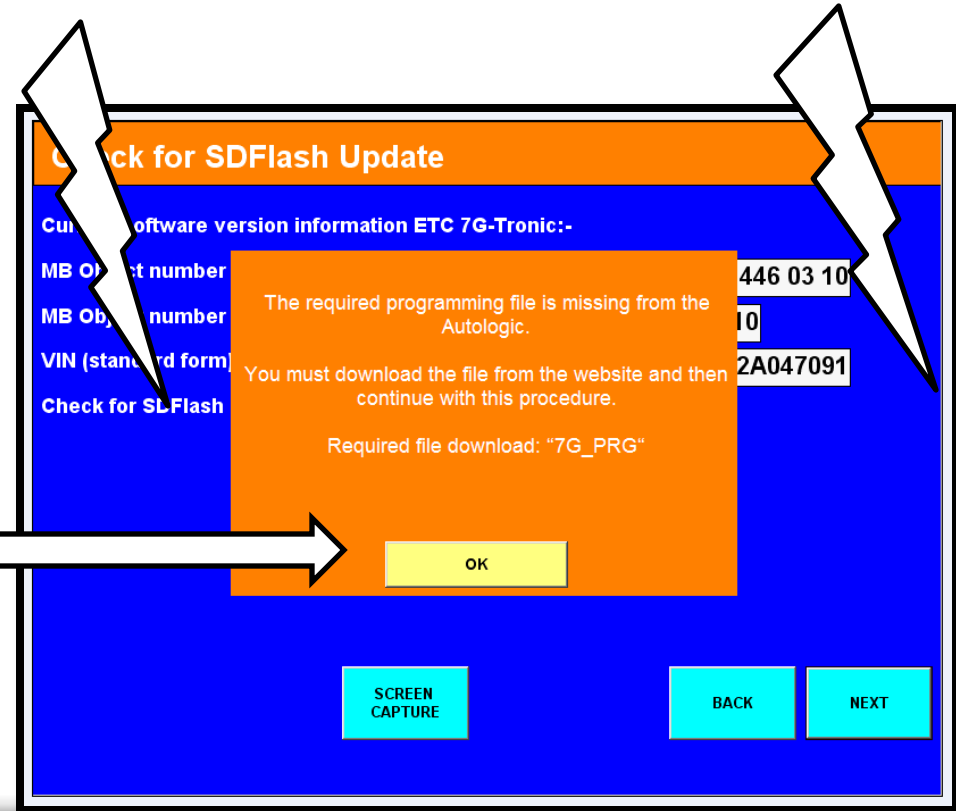
7-G PROGRAMMING OF CONTROL UNIT /ELECTRIC PLATE ONLY WHEN REPLACING WITH PART NUMBER 000 270 17 00



Step 3

SD flash programming

Screen displayed if file is known on autologic



Note at this point if the file is **not** found on autologic you may get the following message displayed.
This means you will be required to visit the autologic web site to download file "7G-PRG" file , and then try SD flashing again.

7-G PROGRAMMING OF CONTROL UNIT /ELECTRIC PLATE ONLY WHEN REPLACING WITH PART NUMBER 000 270 17 00



Check for SDFlash Update

Current software version information ETC 7G-Tronic:-

| | |
|-------------------------------|-------------------|
| MB Object number for hardware | 003 446 03 10 |
| MB Object number for software | 0034489910 |
| VIN (standard form) | WDD2211562A047091 |

Check for SDFlash Update

Step 3 SD flash programming

When the flash file is known to autologic the sequence /screen shots are as follows.

Programming File Status

Required programming files :-

| | |
|---------------|--------------------|
| • File 1 | 0019028400_001.prg |
| • File status | File present |

If the file is not found, please make sure you have downloaded the 7G_PRG programming archive from the Autologic website.

7-G PROGRAMMING OF CONTROL UNIT /ELECTRIC PLATE ONLY WHEN REPLACING WITH PART NUMBER 000 270 17 00

Perform SDFlash Programming

The required programming files are present on the Autologic®.

WARNING :-
Sufficient voltage must be available throughout the procedure. Connect a vehicle battery charger if necessary. A drop in supply voltage during programming could damage the control module beyond repair. Once begun, do not interrupt the programming procedure under any circumstances as this could lead to permanent damage to the control module.

To begin programming the ETC 7G-Tronic control module press the 'Start' button below.

Start programming

Start

HELP

SCREEN
CAPTURE

BACK

Step 3

SD flash programming

Perform SDFlash Programming

The required programming files are present on the Autologic®.

WARNING :-
Sufficient voltage must be available throughout the procedure. Connect a vehicle battery charger if necessary. A drop in supply voltage during programming could damage the control module beyond repair. Once begun, do not interrupt the programming procedure under any circumstances as this could lead to permanent damage to the control module.

To begin programming the ETC 7G-Tronic control module press the 'Start' button below.

Start programming

WARNING!

It is absolutely essential that a good vehicle battery charger / power supply is attached to the vehicle and the Autologic is powered by its mains adapter.

Failure to do this may result in SDFlash programming failing and the control module may sustain permanent damage!

When connected click 'OK' to continue.

OK

HELP

SCREEN
CAPTURE

BACK

7-G PROGRAMMING OF CONTROL UNIT /ELECTRIC PLATE ONLY WHEN REPLACING WITH PART NUMBER 000 270 17 00

Perform SDFlash Programming

The required programming files are present on the Autologic®.


WARNING :-
Sufficient voltage of vehicle battery charging during programming could do not interrupt the procedure this could lead to p...

To begin programming button below.

Start programming

SDFlash programming is about to begin
You will see several progress bars during programming and will get a confirmation message when the procedure has completed.

Click 'Continue' to begin programming or 'Cancel' to exit the procedure.



Continue **CANCEL**

HELP **SCREEN CAPTURE** **BACK**

Step 3 SD flash programming

Perform SDFlash Programming

The required programming files are present on the Autologic®.

WARNING :-
Sufficient voltage of vehicle battery charging during programming could do not interrupt the procedure this could lead to p...

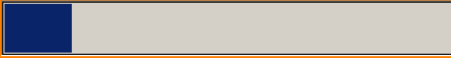
To begin programming button below.

Start programming

Multi block SDFlash programming is being carried out
Software version: 0019028400

Please wait

Programming is being carried out.
Please wait...



HELP **CAPTURE** **BACK**

7-G PROGRAMMING OF CONTROL UNIT /ELECTRIC PLATE ONLY WHEN REPLACING WITH PART NUMBER 000 270 17 00

Perform SDFlash Programming

The required programming files are present on the Autologic®.

WARNING :-
Sufficient voltage
vehicle battery charge
programming could
do not interrupt the
this could lead to p

Programming is being finalized
Please wait.

To begin program
button below.

Start programming

HELP SCREEN CAPTURE BACK

Step 3

When SD flash programming is **complete**
Move to **STEP 4 AUTOMATIC SCN CODING**

SCN Coding

Automatic SCN Coding Manual SCN Coding

HELP SCREEN CAPTURE BACK

Perform SCN Coding

INSTRUCTIONS:

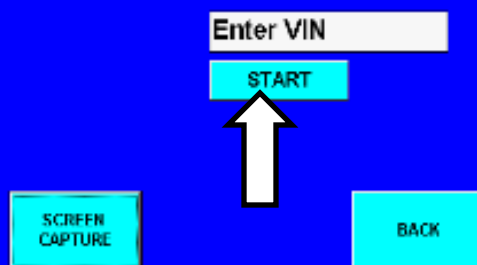
• Enter the chassis number of your vehicle using the 'start' button below. This will attempt to retrieve the SCN coding data. If the data is found Autologic will automatically proceed to the SCN coding page.

NOTE:

• SCN data can only be retrieved if it has already been requested. If you haven't yet requested SCN data for this vehicle, enter the chassis number using the 'START' button. This will automatically save a log file with the necessary information for SCN coding.

Status

Chassis number



Step 4 SCN automatic coding .

Enter the chassis number and press start
This will generate a message saying

THE SCN DATA FOR THIS VEHICLE COULD NOT BE RETRIEVED.

A LOG HAS BEEN GENERATED .PLEASE SEND THIS LOG TO AUTOLOGIC TO REQUEST THE SCN DATA .

Once the log has been received the SCN code will be generated by autologic software department and you will be

contacted by telephone and asked to download the latest Mercedes update .

once update has been downloaded ,try automatic SCN coding again and this time it will be successful. After the completion of SCN coding move on to next step .

Note: if the SCN coding cannot be obtained it is possible that the software engineer may ask you to download and complete the 8 step start up procedure, And then ask you to take another download and carry out the all start up steps again from step 2 onwards to enable the 7-g transmission to be coded correctly.

INITIAL START-UP FOR SENSOR REPLACEMENT

NOTE: Old ECU data should have been read and New ECU should be fitted

- WRITE EHS NUMBER (AFTER OLD ECU READ)
- CONTROL MODULE PROGRAMMING (AFTER EHS WRITE)
- SCN CODING
- WRITE DATA TO NEW ECU(After SCN is complete)
- DRIVE AUTHORISATION
- SELECTOR SENSOR LEARNING PROCESS
- CYCLE IGNITION

STEP 2

STEP 3

STEP 4

STEP 5

STEP 6

STEP 7

STEP 8

HELP

SCREEN CAPTURE

BACK

PAGE 2 OF 2

Step 5

This writes the data from the old control unit stored in step 1 into the new control unit

Values consist of (the working and resistance values of the solenoid valves).

7-G PROGRAMMING OF CONTROL UNIT /ELECTRIC PLATE ONLY WHEN REPLACING WITH PART NUMBER 000 270 17 00

DATA WRITE

Note: This data must have been read from the old unit with speed sensor faults before new module can be fitted.

Vehicle Ident No. (VIN)

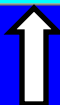
WDC1641862A0377

Standard VIN format

WDC1641862A037741

You must have already Read this data From the OLD ECU.

Write Old data to the new unit



Step 5

This writes the data stored in step 1 into the new control unit(working and resistance values of the solenoid valves).

DATA WRITE

Note: This data must have been read from the old unit with speed sensor faults before new module can be fitted.

Vehicle Ident No. (VIN)

Communicating
Please wait

77

Standard VIN format

2A037741

You must have already

Write Old data to the

7-G PROGRAMMING OF CONTROL UNIT /ELECTRIC PLATE ONLY WHEN REPLACING WITH PART NUMBER 000 270 17 00

DATA WRITE

Note: This data must have been read from the old unit with speed sensor faults before new module can be fitted.

Vehicle Ident No. (VIN)

Standard VIN form

You must have already

Write Old data to the

This Process is complete
Continue on to next step

77 Edit

2A037741



OK

HELP

SCREEN
CAPTURE

BACK

Step 5

This writes the data stored in step 1 into the new control unit (working and resistance values of the solenoid valves).

INITIAL START-UP FOR SENSOR REPLACEMENT

NOTE: Old ECU data should have been read and New ECU should be fitted

- WRITE EHS NUMBER (AFTER OLD ECU READ)
- CONTROL MODULE PROGRAMMING (AFTER EHS WRITE)
- SCN CODING

- WRITE DATA TO NEW ECU (After SCN is complete)
- DRIVE AUTHORISATION

- SELECTOR SENSOR LEARNING PROCESS
- CYCLE IGNITION

STEP 2

STEP 3

STEP 4

STEP 5

STEP 6

STEP 7

STEP 8

HELP

SCREEN
CAPTURE

BACK

7-G PROGRAMMING OF CONTROL UNIT /ELECTRIC PLATE ONLY WHEN REPLACING WITH PART NUMBER 000 270 17 00

Initial Startup

Requirements:
Control unit must have already been installed.

The following step

SCN Coding must have been performed before carrying out DAS procedure.

- CONTROL MODU
- SCN CODING
- DRIVE AUTHORIS
- SELECTOR SENS
- CYCLE IGNITION

Continue CANCEL

HELP SCREEN CAPTURE BACK

DRIVE AUTHORISATION step 6

Initial Startup

Requirements:
Control unit must have already been installed.

The following step

Turn Off Ignition
Then Click OK To Continue.

- CONTROL MODU
- SCN CODING
- DRIVE AUTHORIS
- SELECTOR SENS
- CYCLE IGNITION

OK

HELP SCREEN CAPTURE BACK

Initial Startup

Requirements:
Control unit must have already been installed.

The following step

Turn On Ignition
Then Click OK To Continue.

- CONTROL MODU
- SCN CODING
- DRIVE AUTHORIS
- SELECTOR SENS
- CYCLE IGNITION

OK

HELP SCREEN CAPTURE BACK

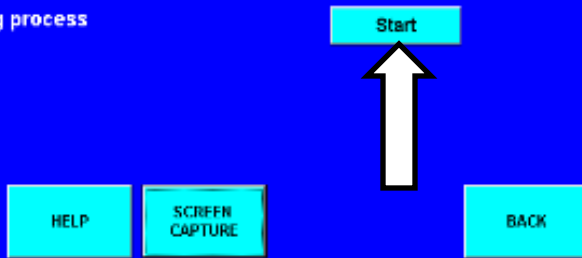
7-G PROGRAMMING OF CONTROL UNIT /ELECTRIC PLATE ONLY WHEN REPLACING WITH PART NUMBER 000 270 17 00

SELECTOR SENSOR LEARNING PROCESS

Important note: Secure vehicle to prevent it moving away.

- This procedure teaches in the vgs selector range sensor (Y3/8S1).
- Follow the guided steps and place the gear selector in the required gear when instructed to. Placement of the selector in an incorrect gear during this teaching process will result in an incorrectly taught transmission, and the procedure will need to be restarted for correct calibration.

Initiate learning process



Once ok has been pressed you will be asked to place selector lever in various positions starting with park –reverse-neutral- drive - and process complete message .

Selector sensor learning process Step 7

Selector Sensor Learning Process

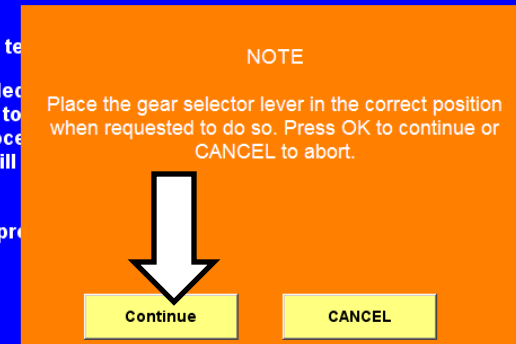
Important note: Secure vehicle to prevent it moving away.

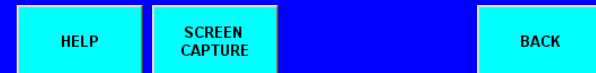
- This procedure teaches in the vgs selector range sensor (Y3/8S1).
- Follow the guided steps and place the gear selector in the required gear when instructed to. Placement of the selector in an incorrect gear during this teaching process will result in an incorrectly taught transmission, and the procedure will need to be restarted for correct calibration.

Initiate learning process

NOTE

Place the gear selector lever in the correct position when requested to do so. Press OK to continue or CANCEL to abort.





7-G PROGRAMMING OF CONTROL UNIT /ELECTRIC PLATE ONLY WHEN REPLACING WITH PART NUMBER 000 270 17 00

Selector Sensor Learning Process

Important note: Secure vehicle to prevent it moving away.

- This procedure teaches the gear selector sensor.
- Follow the guided procedure when instructed to do this teaching procedure and the procedure will complete.

Place the gear selector in position 'P' and press OK to continue



OK

HELP

SCREEN
CAPTURE

BACK

Selector sensor learning process Step 7

Selector Sensor Learning Process

Important note: Secure vehicle to prevent it moving away.

- This procedure teaches the gear selector sensor.
- Follow the guided procedure when instructed to do this teaching procedure and the procedure will complete.

Place the gear selector in position 'R' and press OK



OK

HELP

SCREEN
CAPTURE

BACK

7-G PROGRAMMING OF CONTROL UNIT /ELECTRIC PLATE ONLY WHEN REPLACING WITH PART NUMBER 000 270 17 00

Selector Sensor Learning Process

Important note: Secure vehicle to prevent it moving away.

- This procedure teaches the gear selector sensor.
- Follow the guided procedure when instructed to initiate learning and the procedure will complete.

Initiate learning procedure

Place the gear selector in position 'N' and press OK



OK

HELP

SCREEN
CAPTURE

BACK

Selector sensor learning process Step 7

Selector Sensor Learning Process

Important note: Secure vehicle to prevent it moving away.

- This procedure teaches the gear selector sensor.
- Follow the guided procedure when instructed to initiate learning and the procedure will complete.

Initiate learning procedure

Place the gear selector in position 'D' and press OK



OK

HELP

SCREEN
CAPTURE

BACK

7-G PROGRAMMING OF CONTROL UNIT /ELECTRIC PLATE ONLY WHEN REPLACING WITH PART NUMBER 000 270 17 00

Selector Sensor Learning Process

Important note: Secure vehicle to prevent it moving away.

- This procedure te
- Follow the guided when instructed to this teaching proce the procedure will

Initiate learning pro

Saving data

Please wait

ear
ing
and

HELP

SCREEN
CAPTURE

BACK

Selector sensor learning process Step 7

Selector Sensor Learning Process

Important note: Secure vehicle to prevent it moving away.

- This procedure te
- Follow the guided when instructed to this teaching proce the procedure will

Initiate learning pro

Learning process complete



OK

ear
ing
and

HELP

SCREEN
CAPTURE

BACK

Selector sensor learning process
Complete



7-G PROGRAMMING OF CONTROL UNIT /ELECTRIC PLATE ONLY WHEN REPLACING WITH PART NUMBER 000 270 17 00

cycle ignition step 8

Initial Startup

Requirements:
Control unit must have already been installed.

The following step

Turn Off Ignition
Then Click OK To Continue.

• CONTROL MODU
• SCN CODING
• DRIVE AUTHORIS
• SELECTOR SENS
• CYCLE IGNITION

OK

HELP SCREEN CAPTURE BACK

Initial Startup

Requirements:
Control unit must have already been installed.

The following step

Turn On Ignition
Then Click OK To Continue.

• CONTROL MODU
• SCN CODING
• DRIVE AUTHORIS
• SELECTOR SENS
• CYCLE IGNITION

OK

HELP SCREEN CAPTURE BACK

Initial Startup

Requirements:
Control unit must have already been installed.

The following step

Cycle of ignition is complete

• CONTROL MODU
• SCN CODING
• DRIVE AUTHORIS
• SELECTOR SENS
• CYCLE IGNITION

OK

HELP SCREEN CAPTURE BACK

Clear error codes in vehicle and carry out gear change adaptation road test. After smooth changes adapted, the process is complete.

END OF ELECTRIC PLATE /CONTROL UNIT CODING INFORMATION

VGS 1 termination of programming

When trying to fit a new electric plate to an old valve body this is only possible if the old EHS is not a VGS 1 valve body. VGS 1 part numbers **A 220 270 12 06 or A 220 270 14 06 or A220 270 10 06 or A220 270 11 06** (any of these numbers are a VGS 1 EHS controller)

The autologic will automatically check this (**at step 1**) when you select ECU and electric plate repair at step 1 it will automatically check and if it is found to be VGS 1 then the following messages will occur , and the programming will be terminated.

INITIAL STARTUP CHOICE

IMPORTANT ! :There are two different processes depending on what part is to be fitted. It's important you select the correct option.

- Only If the valve body has one of the following faults 0717,0718,2767,2768,0722,0723 can you fit Sensor replacement Part (The part number is 000-270-17-00 and is only valid on VGS2 and VGS3). First of all process all other fault codes. If other faults are present, or you cannot communicate to the old ECU you must replace the whole valve body. Select 'ECU+Electrics plate' option for this part.

- Sensor Replacement cannot be performed on the following transmissions A 220 270 10 06, A 220 270 11 06,A 220 270 12 06 and A 220 270 14 06 instead the whole valve body should be replaced.

HELP

SCREEN
CAPTURE

BACK

NEXT

INITIAL STARTUP CHOICE 2

IMPORTANT ! :There are two different processes depending on what part is to be fitted. It's important you select the correct option.

- Only If the valve body has one of the following faults 0717,0718,2767,2768,0722,0723 can you fit Sensor replacement Part (The part number is 000-270-17-00 and is only valid on VGS2 and VGS3). First of all process all other fault codes. If other faults are present, or you cannot communicate to the old ECU you must replace the whole valve body. Select 'ECU+Electrics plate' option for this part.

- If you are replacing the whole valve body' option

Initial startup

What are you installing



ECU+Electrics
plate

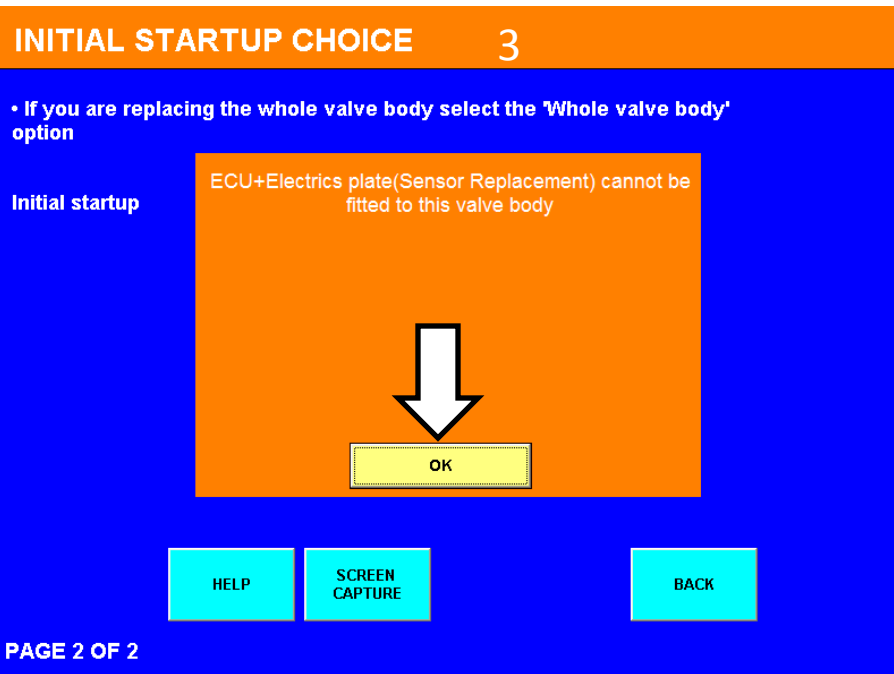
Whole valve
body

HELP

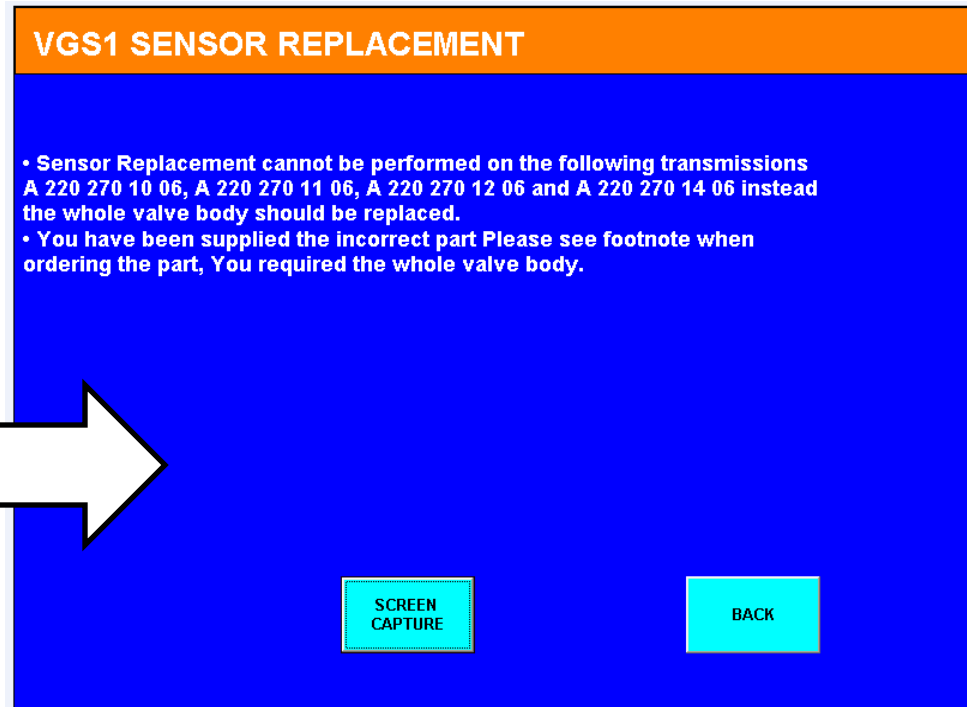
SCREEN
CAPTURE

BACK

Possible problems when coding



VGS 1 termination of programming continued



This means the only option you have is to fit a new complete valve body

7-g information

- 1/ To qualify for an electric plate only repair the vehicle must only have a speed sensor code of one or more of the following codes 0717-0718-0722-0723-2767-2768 any other code in combination with these codes make the electric plate repair non applicable.
- 2/ If you cannot communicate with the old ECU you need to fit a complete valve body.
- 3/ The EHS numbers **220 270 12 06** and **220 270 14 06** or **A220 270 10 06** or **A220 270 11 06** are all VGS 1 boxes and therefore do not come under the electric plate repair as VGS 1 boxes are not compatible with the new plate so if you had a VGS 2 or a VGS 3 box > 2005 onwards then all should be ok(seen on page 2 of control unit version page with autologic)
- 4/ make sure a **stable** voltage is present throughout the coding procedure (a battery charger is recommended).

5/ The brand new complete EHS control unit looks like it comes blank and just needs flashing and SCN coding and then all is ok. this is not the case ,
in fact it does have some values in from factory: IE :the resistance and working values from the solenoid valves ,
and as this is done at factory it is already pre set on the new (seemingly) blank EHS(complete valve body)

if you purchase a new electric plate (000 270 17 00) this obviously cannot be pre coded at factory as the working values of the solenoid valves for your vehicle are not known , so the old ECU still needs to be fitted to the vehicle, then with autologic on vehicle establish communication with transmission/initial start up / and select ECU and electrics plate repair.

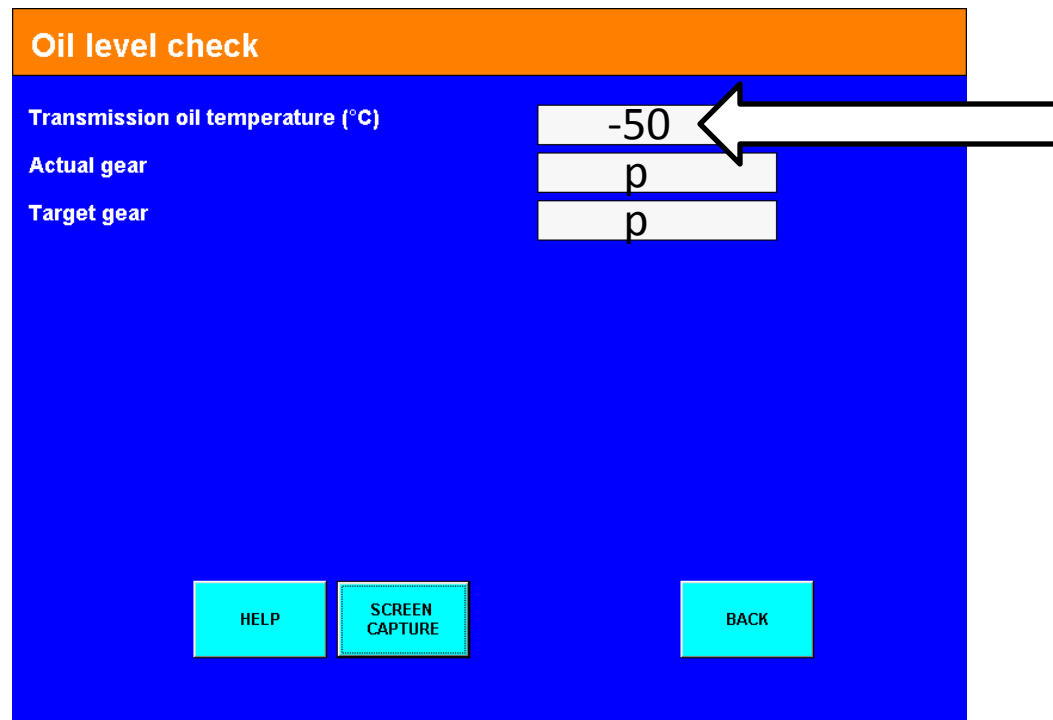
In step 1/ (read data) with autologic the old working values of the solenoid values are read and stored in autologic then remove valve body and fit the new electrics plate and re write the EHS number to latest number available and then carry out rest of process on autologic.

it seems the values that are retrieved from the old ECU are live data, and that is why the old valve body still has to be fitted to the vehicle for the values to be transferred correctly, if you just hang old unit on vehicle(with no solenoid valves fitted) this will transfer corrupt data and the gear change will be very harsh and unacceptable when programming is complete.

Possible problems when coding

note: If you ever have a problem after flashing the EHS(valve body) or a electric plate repair and you are not sure if the process has completed correctly ? (even if it seems to have completed the process via autologic)) a good way to check is have a look in actual values for gearbox and look at the transmission oil temperature, if the temp displayed is (**minus 50 degrees**) then something is wrong with the coding or it has not completed correctly.

(**note** : this is only possible to check when all the 5 steps have been completed).



It is also worth remembering that the control unit/ electric plate is coded to the vehicle and cannot be transferred to other vehicles once assigned to a vehicle .

New 7-g transmission

From June 2010 a modified 7-g transmission came into production.

This modified transmission requires a new transmission oil part number 001 989 78 03

This oil is a different colour from the older 7-g transmission

New oil = A 001 989 78 03 **this new oil is blue in colour**

Old oil = A001 989 68 03 **old oil is red in colour**

Note: the oils are **not** interchangeable



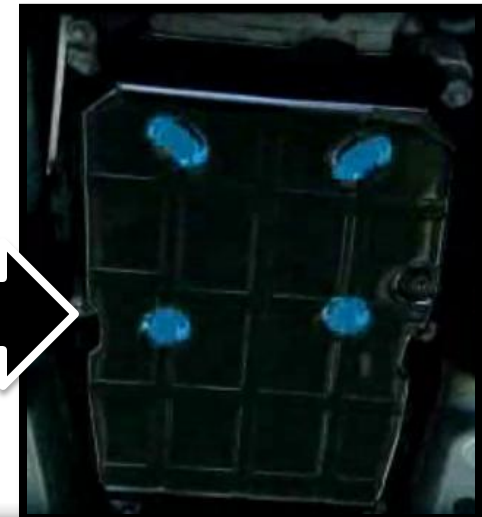
The two transmission types can be visually identified by the following :

1/ The New 7-g has 4x large moulded indent marks in underside of sump pan ,
In comparison the old type has 4 x smaller indents.

Old type 7-g



New type 7-g



New 7-g transmission

2/ the front section of the new 7-g sump pan has two raised sections for cable brackets (as photo) which also makes it easier to identify.



3/ the new transmission also has a different internal filler pipe new type which is green in colour



The old type was white in colour



New 7-g transmission

Note: the oil temperature for checking level is at least 45 degrees

Transmission oil overview

| | ATF 134 Specifications for Operating Fluids 236.14 | FE-ATF 134 Specification s for Operating Fluids 236.15 |
|---|---|---|
| 722.6 | × | |
| 722.9 with engine 629 | × | |
| 722.9 up to production date 18.6.2010 (except vehicles with engine 629) | × | |
| 722.9 as of production date 21.6.2010 (except vehicles with engine 629) | | × |

ATF 134= MB part number = A 001 989 68 03(09) 1litre (11) 5 litres

FE-ATF 134= MB Part number = A 001 989 78 03(09) 1litre (11) 5 litres

End of information