

Technical product information

Topic	Headlamp control unit replacement and/or turn signal control unit replacement
Market area	Australia E04 Bentley rest Asia and Australia (6E04),China 796 VW Import Comp. Ltd (Vico), Beijing (6796),Germany E02 Bentley rest Europe (6E02),Japan E03 Bentley Japan (6E03),Korea, (South) E08 Bentley South Korea (6E08),United Arab Emirates E06 Bentley Middle East and Africa (6E06),United Kingdom E01 Bentley UK (6E01),United States E05 Bentley USA and rest America (6E05)
Brand	Bentley
Transaction No.	2071934/1
Level	EH
Status	Approval
Release date	

New customer code

Object of complaint	Complaint type	Position
electrical power, electric system, data transfer -> power supply	functionality	
lighting system, signalling -> exterior illumination -> main lights	functionality -> partially without function	> not specified <
lighting system, signalling -> exterior illumination -> main lights	functionality -> uneven	> not specified <

Vehicle data

New Continental GT and New Continental GTC

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
3S3*	2018	E		*	*	*
3S3*	2019	E		*	*	*
3S3*	2020	E		*	*	*
3S3*	2021	E		*	*	*
3S3*	2022	E		*	*	*
3S3*	2023	E		*	*	*
3S3*	2024	E		*	*	*
3S4*	2019	E		*	*	*
3S4*	2020	E		*	*	*
3S4*	2021	E		*	*	*
3S4*	2022	E		*	*	*
3S4*	2023	E		*	*	*
3S4*	2024	E		*	*	*

Documents

Document name
master.xml
newcontinentalgtandnewcontinentalgtcheadlampcontrolmodule.pdf

Customer statement / workshop findings

Headlamp low beam / high beam malfunction / operational issues (Inner lamp)

Or

Daytime running light malfunction / operational issues (Inner lamp)

Or

Turn signal malfunction / operational issues (Outer lamp)

Technical background

WARNING

Vehicles using a High voltage system MUST only be worked on by suitably qualified personnel



It is not possible to determine between internal lamp defects and control unit failures therefore this TPI is to advise the replacement of the headlamp control unit(s) in the first instance

The complete headlamp assembly should only be replaced if the replacement of the control unit(s) was not successful

Or

One or both control units have been replaced TWICE previously (see note below)

- The headlamp control units can only be replaced a MAXIMUM of TWO times (per headlamp) If there are already two yellow paint marks on one or both control units or the vehicles repair history show that one or both control units have been replaced TWICE, a new headlamp assembly must be fitted

NOTICE

IMPORTANT NOTICE: Please ensure photographs of the issues found whilst conducting this TPI are attached to a new or existing DISS query as detailed below:

- Photographs showing the actual failure mode
- Photographs after the repair has been successfully completed

Note: Failure to provide the required information could result in warranty claims being cancelled

Hint: In the event the issue was evident after one or both control unit(s) were replaced and a new headlamp assembly was fitted, a photograph of the failure mode after control unit replacement is required

Depending on the symptom, the following should be conducted:



Note: In the event the headlamp control unit procedure is not visible within Rep.Gr 94 the operative should refer to the Bentley Hub searching for the following:

- New Continental GT and New Continental GTC Headlamp Control Module

The procedures will be published within Rep.Gr 94 when available

Hint: The procedure is also attached to this TPI

- Head lamp low beam / high beam malfunction or daytime running light (Inner lamp) - Refer to Scenario 1 - Replace the headlamp control unit - Refer to Rep.Gr 94 - **Hint:** Do Not remove the headlamp
- Turn signal (Outer lamp) - Refer to Scenario 2 - Replace the headlamp turn signal control unit - Refer to Rep.Gr 94 - **Hint:** Headlamp removal is required
- Should both issues be evident the operative must replace both control units - Refer to Scenario 3 - Replace the headlamp control unit and turn signal control unit - **Hint:** Headlamp removal is required

NOTICE

Please ensure that all VIN and symptom related TPI's are conducted before continuing with the instructions within the Measure section in particular TPI 2054599/-

Production change

Not applicable

Measure



Note: In the event the headlamp control unit procedure is not visible within Rep.Gr 94 the operative should refer to the Bentley Hub searching for the following:

- New Continental GT and New Continental GTC Headlamp Control Module

The procedures will be published within Rep.Gr 94 when available

Hint: The procedure is also attached to this TPI

Scenario 1 - Headlamp control unit replacement

CAUTION

Have the instructions within TPI 2054599/- been conducted?

Yes - Carry out the remaining instructions within Scenario 1

No - Conduct TPI 2054599/- **Hint:** In the event the issue is still evident after conducting TPI 2054599/-please continue with the onward instructions

- Referring to Rep.Gr 94 - Replace the headlamp control unit
- Apply a yellow paint mark as shown in Figure 1 and/or Figure 2 (depending if the control unit has been replaced once (Figure 1) or twice (Figure 2))



Figure 1



Figure 2

NOTICE

In the event the issue is not resolved after the headlamp control unit has been replaced and TPI 2054599/- has been conducted, the operative must replace the complete headlamp assembly as detailed within Rep.Gr 94

- Carry out a short road test to confirm the headlamps are fully functional
- On return from road test - using ODIS recheck for any returning DTC's
- Should the DTC's not be evident and the headlamps are fully functional, no further action is required

However

In the event the issue is not resolved the operative must respond via an existing DISS query or raise a new technical DISS query and await a response before conducting any further work

Scenario 2 - Turn signal control unit replacement

CAUTION

Have the instructions within TPI 2054599/- been conducted?

Yes - Carry out the remaining instructions within Scenario 2

No - Conduct TPI 2054599/- **Hint:** In the event the issue is still evident after conducting TPI 2054599/-please continue with the onward instructions

- Referring to Rep.Gr 94 - Remove the applicable headlamp
- Replace the turn signal control unit - Refer to Rep.Gr 94

Hint: Check the operation of the headlamp before refitting

- Apply a yellow paint mark as shown in Figure 3 and/or Figure 4 (depending if the control unit has been replaced once (Figure 3) or twice (Figure 4))



Figure 3



Figure 4

NOTICE

In the event the issue is not resolved after the headlamp control unit has been replaced and TPI 2054599/- has been conducted, the operative must replace the complete headlamp assembly as detailed within Rep.Gr 94

- Carry out a short road test to confirm the headlamps are fully functional
- On return from road test - using ODIS recheck for any returning DTC's
- Should the DTC's not be evident and the headlamps are fully functional, no further action is required

However

In the event the issue is not resolved the operative must respond via an existing DISS query or raise a new technical DISS query and await a response before conducting any further work

Scenario 3 - Replacement of the headlamp control unit and turn signal control unit

CAUTION

Have the instructions within TPI 2054599/- been conducted?

Yes - Carry out the remaining instructions within Scenario 3

No - Conduct TPI 2054599/- **Hint:** In the event the issue is still evident after conducting TPI 2054599/-please continue with the onward instructions

- Referring to Rep.Gr 94 - Remove the applicable headlamp
- Replace the turn signal control unit - Refer to Rep.Gr 94
- Referring to Rep.Gr 94 - Replace the headlamp control unit - Refer to Rep.Gr 94



Hint: Check the operation of the headlamp before refitting

- Apply a yellow paint mark as shown in Figures 1 and 2 and/or Figures 3 and 4 (depending if the control units have been replaced once or twice)

NOTICE

In the event the issue is not resolved after the headlamp control unit has been replaced and TPI 2054599/- has been conducted, the operative must replace the complete headlamp assembly as detailed within Rep.Gr 94

- Carry out a short road test to confirm the headlamps are fully functional

- On return from road test - using ODIS recheck for any returning DTC's
- Should the DTC's not be evident and the headlamps are fully functional, no further action is required

However

In the event the issue is not resolved the operative must respond via an existing DISS query or raise a new technical DISS query and await a response before conducting any further work

Warranty accounting instructions

NOTICE

IMPORTANT NOTICE: Please ensure that photographs showing the issues found whilst conducting this TPI are attached to a new or existing DISS query as below.

- Photographs showing the actual failure mode
- Photographs after the repair has been successfully completed

Note: Failure to provide the required information could result in warranty claims being cancelled

Hint: In the event the issue was still evident after the control unit was replaced and a new headlamp assembly was required to resolve the issue, a photograph of the failure mode after the control unit was initially replaced is also required

Warranty type 110 or 910
 Damage service number 94 18 - Control unit
 Damage service number 94 15 - Headlamp assembly
 Damage code 00 40

Scenario 1 - Headlamp control unit replacement

Labour operation code 94 01 19 50
 Time 10 TU

Scenario 2 - Turn signal control unit replacement

Time to remove and refit the headlamp

Labour operation code 94 15 19 00
 Time 280 TU

Time to replace the turn signal control unit (headlamp removed) and test the functionality of the headlamp

Labour operation code 94 01 19 53
 Time 10 TU

Scenario 3 - Replace the headlamp and turn signal control unit

Time to remove and refit the headlamp

Labour operation code 94 15 19 00
 Time 280 TU

Time to replace the headlamp control unit (headlamp removed) and test the functionality of the headlamp

Labour operation code 94 01 19 50
 Time 10 TU

Time to replace the turn signal control unit (headlamp removed) and test the functionality of the headlamp

Labour operation code 94 01 19 53
 Time 10 TU

All scenarios

Time to align both headlamps

Labour operation code 94 15 16 00
 Time 20 Time units

Diagnosis time

Labour operation code 01 50 00 00
 Time As per ODIS log Must not exceed 10 Time units

Time to remove and refit (x1) front wheel arch liner

Labour operation code 66 16 19 01

Time 20 TU

Time to remove and refit (x2) front wheel arch liners

Labour operation code 66 16 20 01

Time 40 TU

NOTICE

Hint: The wheel arch liner LOT's must only be claimed once in the event the headlamp control unit or headlamp unit was diagnosed as faulty and all checks were conducted as described within TPI 2054599/-

Road test

Labour operation code 01 21 00 01

Time 30 TU

Parts information

Headlamp control unit - 7PP 941 592A (x1)

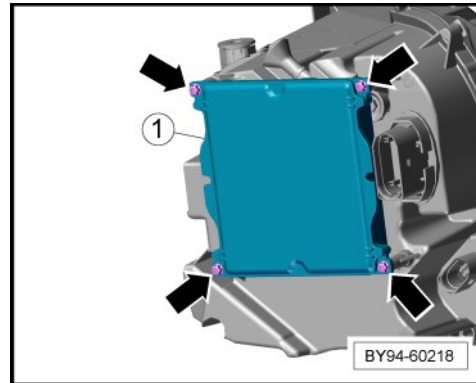
Turn signal/daytime running light control unit - 80A 907 397D (x1)

CAUTION

The part numbers listed can change without notice, please refer to the ETKA parts catalogue to ensure the latest specification part(s) are ordered/supplied

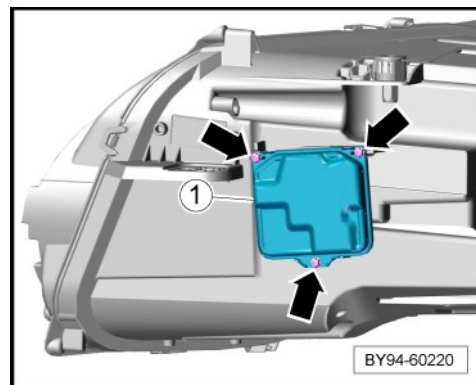
General Information

The headlamp control unit -1- is accessible from under the front wheel arch apertures.



Disregard all other positions

The turn signal control unit -1-, requires the headlamp assembly to be removed in order to gain access to the control unit.



Disregard all other positions



Note

*The headlamp control units can only be changed a **MAXIMUM** of **TWO** times each per headlamp. If there are already two yellow reference marks next to the control units, then a **NEW headlamp assembly complete** will be required, available through ETKA.*

Right hand side headlamp control module shown, left hand side is symmetrically opposite, unless where stated.



Caution

Ensure that before removal of the headlamp control unit that the area immediately around the headlamp control unit, is clean and free from debris that could enter the headlamp assembly.



WARNING

Ensure that the correct personal protective equipment is worn.

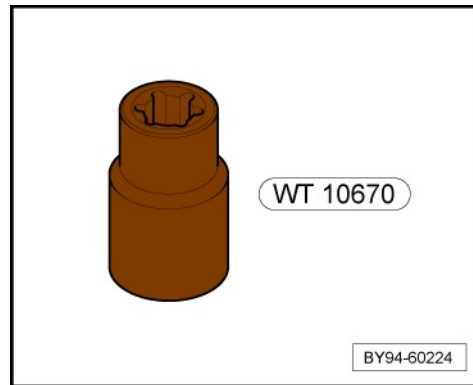
Ensure that the vehicle is fully cooled before commencing work in this area.

Special tools and workshop equipment required

- ◆ Vehicle tester



- ◆ External torx plus socket WT 10670

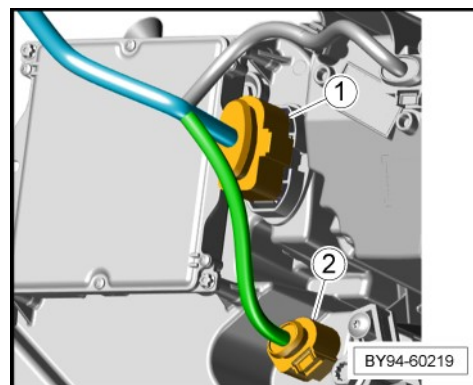


Torque tightening values

Unless otherwise shown, standard torque values apply. ⇒ [/BAS/After Sales Publication/Vehicle electrics/00 - Technical data, Materials](#)

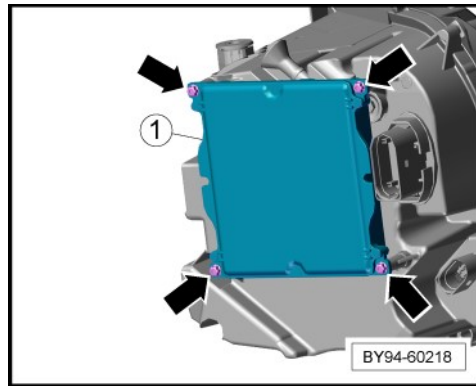
Removal

- Headlamp control module



- Remove the relevant front wheelarch liners. Refer to “Front wheelarch liners - To remove and fit” ⇒ [/BAS/After Sales Publication/Body/66 - Exterior equipment](#)
- Disconnect the two harness connectors **-1&2-**.
- Using the External torx plus socket WT 10670, remove the four fixings **-arrows-** (1.5) Nm, that retain the

headlamp control unit -1-.



- Carefully extract the headlamp control unit -1- out from the headlamp assembly, only enough to gain access to the harness connector -2-.

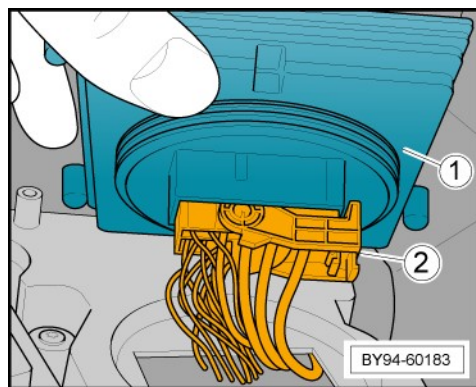


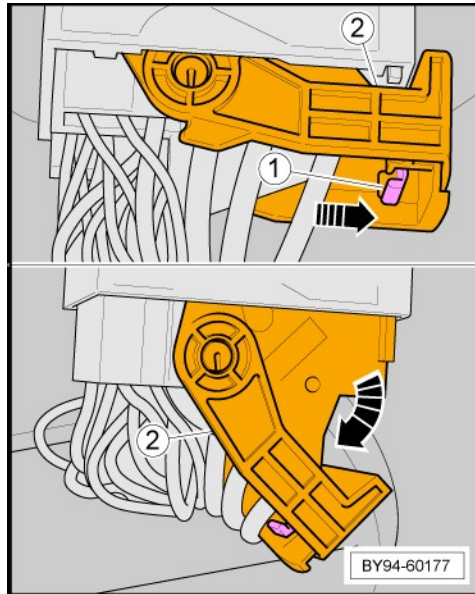
Image for illustration purposes only.



Caution

Take care NOT to over extend the wires out from the headlamp assembly, as damage to the wires can result.

- Press the catch -1- in the direction of -arrow-, and at the same time rotate the harness plug retainer -2- outwards as shown, enough to allow the harness plug to disconnect from the control unit.



- Remove the control unit.

Installation

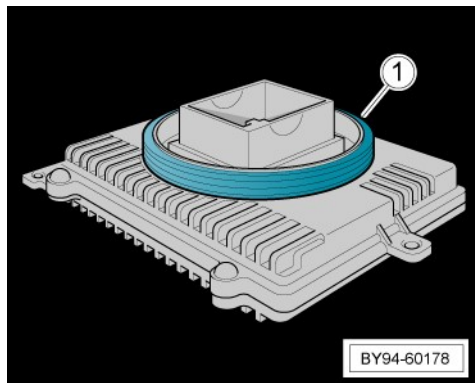
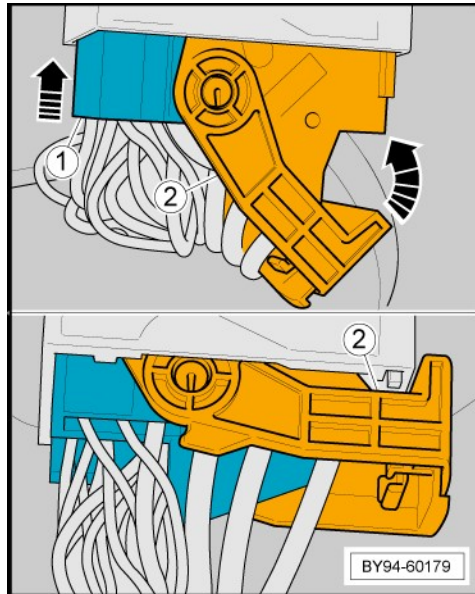


Image for illustration purposes only.

Installation is the reverse of removal procedure, noting the following.

- Pay attention to the seal **-1-**, and ensure that there is NO damage, and that the seal is seated correctly as shown.
- Re-connect the harness connector **-1-**, and fully close the retainer **-2-**.



- When correct retention of the harness connector is achieved, an audible click will be heard.
- Re-insert the control unit **-1-** into the headlamp apertures **-highlighted-** being careful not to dislodge the control module seal **-2-**.

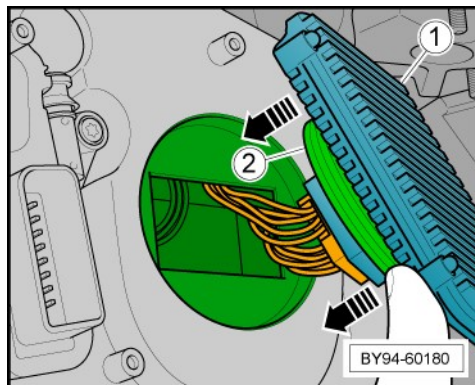
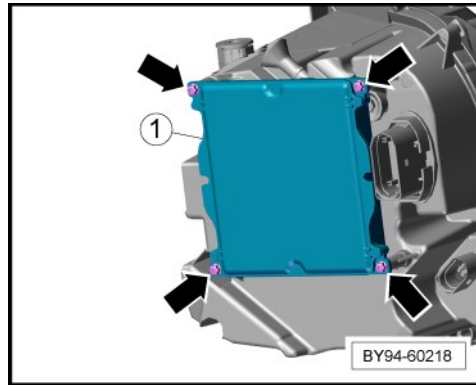


Image for illustration purposes only.

- Press the control unit into the headlamp assembly, evenly and square.
- Insert the four fixings **-arrows-** and using the External torx plus socket WT 10670, torque tighten to (1.5) Nm.



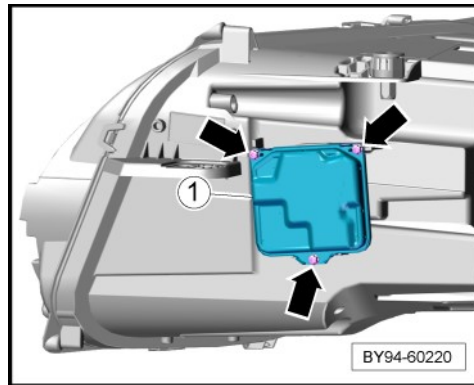
Note

Once the headlamp control unit has been replaced, suitably mark the headlamp assembly next to the relevant control unit with a single neat yellow line.

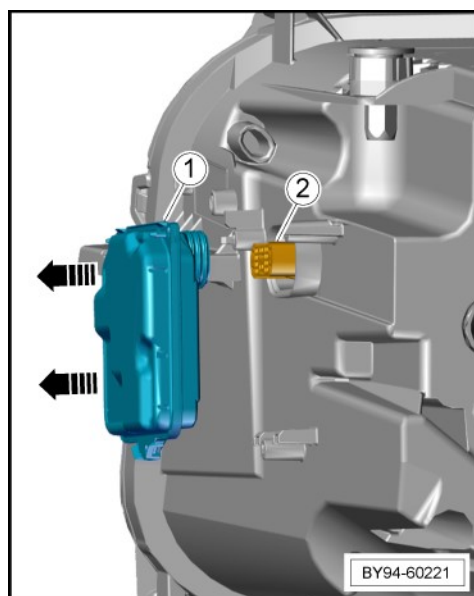
- Further assembly required.
- Upon completion, connect the Vehicle tester and start ODIS Service:
 - ◆ Select •Guided functions and allow to sweep.
 - ◆ Select either •D6 or D7 in the block diagram.
 - ◆ Select •Replace.
 - ◆ Follow the on screen prompts.
- Calibrate the matrix headlamps (where fitted). Refer to “Matrix headlamps – To calibrate” ⇒ [/BAS/After Sales Publication/Running gear/44 - Wheels, Tyres, Wheel alignment](#)
- Ensure that the operation of the headlamp assembly is checked and is operating correctly before driving the vehicle on the road.

Removal

- Turn signal and DRL control module



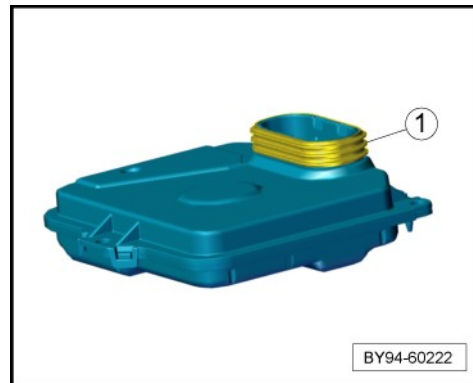
- Remove the relevant headlamp assembly. Refer to “Headlamps (MX1, MX2) - To remove and fit” ⇒ [/BAS/After Sales Publication/Vehicle electrics/94 - Lights, Lamps, Switches, exterior](#)
- Using the External torx plus socket WT 10670, remove the three fixings **-arrows-** (1.5) Nm, that retain the control unit **-1-** to the headlamp assembly.
- Carefully and evenly withdraw the control unit **-1-** from the harness connector **-2-**.



Note

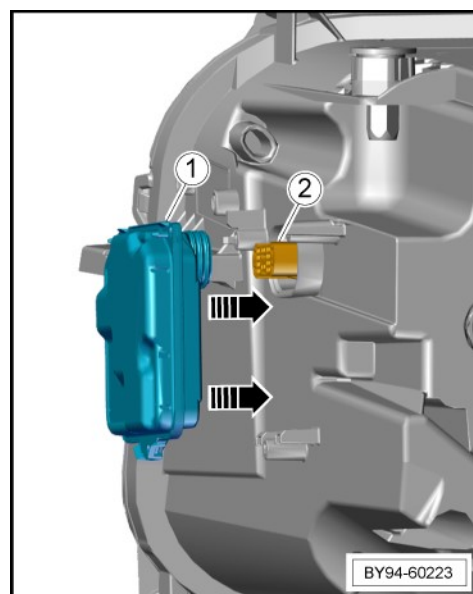
The harness connector **-2-** is secured to the headlamp assembly and **NOT** the control unit **-1-**.

Installation



Installation is the reverse of removal procedure, noting the following.

- Pay attention to the seal **-1-**, and ensure that there is NO damage, and that the seal is seated correctly as shown.
- Carefully insert the control unit **-1-** back into the headlamp assembly, ensuring that it is fitted evenly into the harness connector **-2-**.



- Insert the three fixings **-arrows-** and using the External torx plus socket WT 10670, fully torque tighten to (1.5) Nm.



Note

Once the headlamp control unit has been replaced, suitably mark the headlamp assembly next to the relevant control unit with a single neat yellow line.

- Further assembly required.
- Upon completion, connect the Vehicle tester and start ODIS Service:
 - ◆ Select •Guided functions“ and allow to sweep.
 - ◆ Select either •0029 (Left light control) or 0039 (Right light control)“ in the block diagram.
 - ◆ Select •Replace control module“.
 - ◆ Follow the on screen prompts.
- Calibrate the matrix headlamps (where fitted). Refer to “Matrix headlamps – To calibrate” ⇒ [/BAS/After Sales Publication/Running gear/44 - Wheels, Tyres, Wheel alignment](#)
- Ensure that the operation of the headlamp assembly is checked and is operating correctly before driving the vehicle on the road.