



Skill Module Number:

2

Subject: Exterior Lights / Wipers

Objective:

At the completion of this module you will be able to explain the headlight function of the 2002 M-Class.

Vehicle and tools required:

- 1 2002 M-Class with bi-xenon
- 1 2002 M-Class without bi-xenon
- Bright flashlight

Required material:

- Owner's manual
- 163 Model Year Book for 2002

Instructions:

1. Follow the instructions and answer the questions.
2. Ask your instructor if assistance is needed.
3. Stop at instructor checkpoints for sign-off.

1. With the headlights off, can you tell the difference between an M-Class with bi-xenon lights and one without by looking at the front light assembly? _____
2. Open the hood, do you see any adjustments for the headlamp assemblies? _____
3. Is there an adjustment screw for the fog lights? _____
4. With the key off and the light switch in "Auto" position are there any lights on? _____

5. With the key now in position 2 and the light switch in "Auto" position are there any lights on? _____ If so, which ones? _____
6. Now start the engine, did any other lights come on? _____
7. Find the light sensor on the windshield. Using a strong flashlight, shine a beam of light on the light sensor. Did the lights shut off? _____
8. On the vehicle with bi-xenon, turn off the lights, ignition on. Using the flash function, which lights in the front of the vehicle operate? _____
9. Also on vehicle with bi-xenon, with the engine running, turn on the low beams. Perform the flash function again. Which front lights now work during the flash function? _____
10. Does the M-Class have night security illumination (headlamp delay) feature? _____ If so, how do you activate this feature? _____

11. Does the light sensor have to report a dark condition for the night security illumination feature to operate? _____ Why or why not? _____

12. Using the owner's manual, can the owner change the night security illumination time? _____ If so, how? _____
13. If you reopen a door after the night security illumination has shut off, will the lights come back on? _____
14. Does this vehicle have locator lighting? _____ If so, how do you operate this feature? _____
15. Which lights come on for the locator lighting function? _____
16. Does the light sensor play a role with locator lighting? _____ If so what? _____

17. Shine the flashlight on the light sensor and open a front door. Did the light sensor make a difference with dome lamp operation like on a 220? _____
Try again with the key in position 2. Did it make a difference with the key on? _____
18. Using the fuse chart, is there a fuse shown for the low beam headlights? _____
19. Is there a fuse(s) shown for the high beams? _____
20. With the wiper set to intermittent and key in position two, will the wipers work with a front door open? _____
21. Does the wiper washer reservoir now have a low level-sending unit? _____