



AEROSOFT®

OMSI 2 Add-on

COACH 0560

S E R I E S



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Manual: notio 3D, Aerosoft

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OMSI 2 Add-on

Coach O560 Series

Manual

Add-on for

OMSI 2 - The Omnibus Simulator

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Words from the Developer

Thank you for having purchased the add-on „Coach O560 Series“.

Inspired by the idea of bringing home-grown coaches to the screen, I created a collection of vehicles with a lovingly attention to detail. I tried to realize a high level of accuracy in the 8 months of development. This project has cost me and my team a lot of work and time investment, and I am happy to present you the product now.

I would like to thank all the people that helped me out with materials, personal support and their competent opinion.

I also want to give special praise to the following people. Without them, this project wouldn't have been possible in this way:

- Lazarus, who provided objective criticism
- Perotinus, who made the engine sounds, texture working advice and provided the "premium" mirrors mesh
- KleinIV, who provided many sounds, pictures, and fonts
- R5, who provided some sounds too
- Yani, who provided doors sounds
- Chrizzly92, who provided his Cashdesk, Printer, and VOITH retarder sounds
- BM30, who provided scripting and physics help
- The testers, who reported every single bug
- The art workers, who provided liveries, Alka, KleinIV and Pedro M.
- All the companies that helped us in having stuff on this project



Introduction

In this add-on we recreated 12 legendary coaches of the intercity series called „O560“. These include the EURO V versions to EURO VI Facelifted versions, from 12.14m to 13.32m. Introduced for the first time in 2006, this first generation of coaches was built until 2013. In the same year, the Euro 4 and Euro 5 generation was replaced by the second generation of this series under the Euro 6 standards. Since 2017, this second generation is replaced by its Facelifted generation, including new dashboard equipment and exterior look. In 2022, most of them are still in service, despite the first generation start to be more and more rarely on our Europeans roads. The „O560“ series is a part of many transport companies fleets all over the world by its reliability and his comfort aboard.

The O560 Series

O560 Euro V | Comfort Class

| | |
|-----------|--|
| Length | 12,140 mm |
| Width | 2,550 mm |
| Height | 3,355 mm (incl. air conditioning) |
| Engine | OM926 6 in-line 280 HP max. torque 1120Nm |
| Gearbox | - Manual 6 speed - Voith DIWA 4 speed automatic |
| Top Speed | 100 km/h |
| Seats | 49 + 4 + 1 |

O560 Euro V M

| | |
|-----------|--|
| Length | 12,980 mm |
| Width | 2,550 mm |
| Height | 3,355 mm (incl. air conditioning) |
| Engine | OM926 6 in-line 280 HP max. torque 1120Nm |
| Gearbox | - Manual 6 speed - Voith DIWA 4 speed automatic |
| Top Speed | 100 km/h |
| Seats | 53 + 4 + 1 |

O560 Euro VI | Facelift

| | |
|-----------|--|
| Length | 12,140 mm |
| Width | 2,550 mm |
| Height | 3,355 mm (incl. air conditioning) |
| Engine | OM936 6 in-line 295 HP max. torque 1200Nm |
| Gearbox | - Manual 6 speed - Voith DIWA 4 speed automatic |
| Top Speed | 100 km/h |
| Seats | 49 + 4 + 1 |



O560 Euro VI M | Facelift

| | |
|-----------|--|
| Length | 12,640 mm |
| Width | 2,550 mm |
| Height | 3,355 mm (incl. air conditioning) |
| Engine | OM936 6 in-line 295 HP max. torque 1200Nm |
| Gearbox | - Manual 6 speed - Voith DIWA 4 speed automatic |
| Top Speed | 100 km/h |
| Seats | 53 + 4 + 1 |

O560 Euro VI L | Facelift

| | |
|-----------|--|
| Length | 13,320 mm |
| Width | 2,550 mm |
| Height | 3,355 mm (incl. air conditioning) |
| Engine | OM936 6 in-line 295 HP max. torque 1200Nm |
| Gearbox | - Manual 6 speed - Voith DIWA 4 speed automatic |
| Top Speed | 100 km/h |
| Seats | 57 + 4 + 1 |

O560 Euro VI Comfort Class | Facelift

| | |
|-----------|--|
| Length | 12,140 mm |
| Width | 2,550 mm |
| Height | 3,355 mm (incl. air conditioning) |
| Engine | OM936 6 in-line 350 HP max. torque 1400Nm |
| Gearbox | - Manual 6 speed - Voith DIWA 4 speed automatic |
| Top Speed | 100 km/h |
| Seats | 49 + 4 + 1 |



Dashboard



1. ASR (Anti Slip Regulation)
2. Switch Retarder with Brakes
3. Driver space lightning
4. Freeze the Info display; change the displayed data
5. Warn blinkers school Switch
6. No function
7. Ambient passenger space lightning
8. Full passenger space lightning
9. Front of the coach interior lightning
10. Open and close the driver window
11. Horn type switch
12. No function
13. Lift/Lower suspensions
14. Reset the suspensions

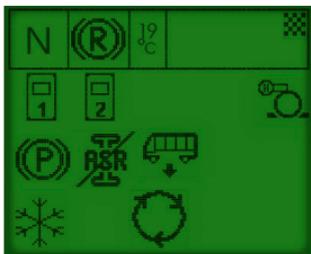
15. Hold lights
16. Switch Door Brake
17. Left to right: Horn, Wiper Speed and Wash (pull to the right), blinkers and beam lights
18. Lights switch
19. Parking Brake
20. Speedometer incl. odometer
21. RPM Meter
22. Cluster lights
 1. Euro V Versions from left to right
 - i. Left direction indicator
 - ii. High beam
 - iii. Fog lights
 - iv. STOP | Vehicle not operational
 - v. Attention | Stop requested (...)
 - vi. Parking brake
 - vii. Right direction indicator
 2. Euro VI Versions from left to right first and second row
 - i. Left direction indicator
 - ii. Low beam
 - iii. High beam
 - iv. Fog lights
 - v. STOP | Vehicle not operational
 - vi. Attention | Stop requested (...)
 - vii. Slip control
 - viii. Parking brake



-
- ix. Right direction indicator
 - x. ASR status
 - xi. Particle filter
- 23. Info display (doors, brake pressure, temperatures, etc.)
 - 24. Steering column (click to hide steering wheel)
 - 25. Steering wheel adjust Switch
 - 26. Stop brake Switch
 - 27. Trip recorder
 - 28. Ticket Printer and IBIS
 - 29. Heating controls
 - 30. Door 1 Switch
 - 31. Door 2 Switch
 - 32. Warn blinkers Switch
 - 33. Manual stick (or automatic selector)
 - 34. Retarder: drag towards and forward to use
 - 35. Radio
 - 36. Cash desk

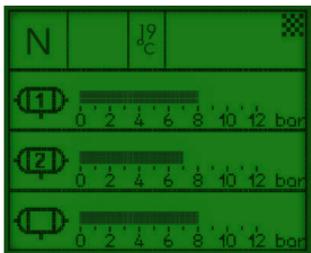
Info Display - Euro V Versions

The Info display is a monitoring system for the whole vehicle, it shows many information as the following describes principal modes:



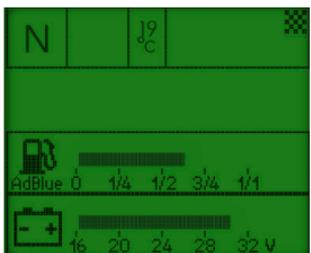
Main mode

This mode shows current information and state of the functions of the vehicle. For example: doors, ASR, Parking Brake, Suspensions, Air conditioning, Stop Brake, Retarder, etc. This mode comes at the start of the ignition.



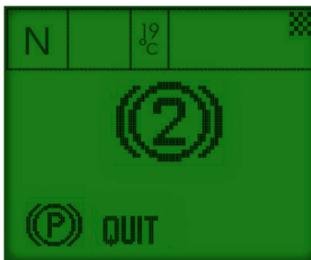
Brake pressure mode

Here is the current brake pressure. To start driving with the vehicle, the brake pressure must reach at least 6.5 bar. In case the brake pressure is not enough, the cluster will indicate a "STOP" error and the Info display will be in error status.



AdBlue and Battery mode

Here is the current AdBlue level and the battery voltage.



Error mode

The Info display can also show critical errors in the center of the cluster for example when the brake pressure is not enough or when a door is not operational. To quit the error(s) use the "QUIT" button under the Info display.



Info Display - Euro VI Versions



Main mode

This mode shows current information and state of the functions of the vehicle. For example: doors, ASR, Parking Brake, Suspensions, Air conditioning, Stop Brake, Retarder, etc. This mode comes at the start of the ignition.



Brake pressure mode

Here is the current brake pressure. To start driving with the vehicle, the brake pressure must reach at least 6.5 bar. In case the brake pressure is not enough, the cluster will indicate a "STOP" error and the Info display will be in error status.



Diesel, AdBlue and Battery mode

Here is the current level of Diesel and AdBlue (as it is on every mode too).



Engine oil mode

Here is the current engine oil temperature.



Settings mode

Here is the brightness of the LCD screen and the blinker volume percentage. Press the "INFO" key to access this mode. Press it back to switch between brightness and blinker volume setting. Hold "SYSTEM" and "RESET" for "+/-". Press "QUIT" to quit the mode.

Ticket Printer and IBIS

This device takes over the traditional IBIS functions and combines them with ticket sales. The device is ready when the home screen asks for touch input.



After touching the screen, it asks for the company number. In reality this allows to distinguish between transport companies or subcontractors, but OMSI does not have this functionality. Therefore, every two-digit number larger than 10 can be entered. The input has to be confirmed with "OK"



After entering the company number, the device shows the timetable menu. As with the traditional IBIS, you can define a driving mode here by clicking on the selection list. Options are driving as per the timetable, but also entering a destination or special line character manually using the familiar formatting. **IMPORTANT:** For the upper 3 choices the printer always expects a 5-digit input (line + route), and for the lower 3 choices a 3-digit input. If a term code has for example "001" as index, the prepended zeros have to be entered!



After entering line + route, the input has to be confirmed with "OK".



If the input is correct, the printer changes into driving mode. This shows the current (line 1) bus stop and the 2 following stops (lines 2 and 3). Line 4 shows the current final stop of the route. Die up and down buttons to the left of the screen switch to the next and previous bus stops. **IMPORTANT:** departure times and the current timetable (upper right) will only be shown when a timetable is active! Also, if a line and route is active, the destination will be shown in the header.



The device shows tabs in the footer that switch between the different functions. There are, from left to right:

1. Drive selection
2. Settings
3. No function
4. Messages
5. Visual controls
6. Driving mode



The settings mode allows for the shift to be paused or terminated. The screen brightness can also be changed here. The device has a selection menu to the right. Clicking on the yellow icon on the upper right-hand corner switches the device from "IBIS mode" to "selling mode". In the center of the screen the type of ticket can be changed.



After choosing a type of ticket, the price will be shown in the left column. Clicking on the printer in the lower right-hand corner will print the ticket. There are also buttons to cancel the process ("Abbruch") and go back to ("Zurück")



The Matrix Display uses strings 11 and 12 of the “Universal Hof file” (<https://reboot.oms-i-webdisk.de/wiki/entry/45-hof-file/>) for writing in first and second row. If these two strings are empty, it uses strings 1 and 2 (for standard Krueger).

Heizung - Euro V and VI Versions



1. Air distribution driver's aera
2. Temperature driver's aera
3. Fans speed driver's aera
4. Air conditioning
5. Fresh air/recirculating air. Increase temperature or fans speed when blinking.
6. Heating passenger cabin. Press once to set the temperature, twice to set the fan speed. Long press to turn off.
7. Auxiliary heater schedule
8. Auxiliary heater. Decrease temperature or fans speed when blinking.
9. Switch air conditioning/heating passenger cabin (if equipped)



Heizung - Euro VI Facelift Versions



1. Air distribution driver's aera
2. Temperature driver's aera
3. Fans speed driver's aera
4. Air conditioning
5. Switch air conditioning/heating passenger cabin
6. Fresh air/recirculating air
7. Heating passenger cabin. Press once to turn on/set fans speed; long press to turn off
8. Auxiliary heater
9. Increase/decrease temperature or fans speed
10. Set the passenger cabin temperature
11. Auxiliary heater schedule

Repaints

Find in the folder "Addons\Coach O560 Series\Templates" the templates .psd files for all the coaches.

Find the according templates to use in this table:

| | |
|---|---------------------------------|
| O560 Euro V (Normal and Lite) | Main texture: O560_E5_Main |
| | Glass texture: O560_E5_Glass |
| O560 Euro V M (Normal and Lite) | Main texture: O560_M_E5_Main |
| | Glass texture: O560_M_E5_Glass |
| O560 Euro VI (Normal and Lite) | Main texture: O560_E6_Main |
| | Glass texture: O560_E6_Glass |
| O560 Euro VI Facelift (normal and Lite) | Main texture: O560_E6FL_Main |
| | Glass texture: O560_E6_Glass |
| O560 Euro VI M (Normal and Lite) | Main texture: O560_M_E6_Main |
| | Glass texture: O560_M_E6_Glass |
| O560 Euro VI M Facelift (Normal and Lite) | Main texture: O560_M_E6FL_Main |
| | Glass texture: O560_M_E6_Glass |
| O560 Euro VI L (Normal and Lite) | Main texture: O560_L_E6_Main |
| | Glass texture: O560_L_E6_Glass |
| O560 Euro VI L Facelift (Normal and Lite) | Main texture: O560_L_E6FL_Main |
| | Glass texture: O560_L_E6_Glass |
| O560 Euro VI Comfort Class | Main texture: O560_TE6_Main |
| | Glass texture: O560_TE6_Glass |
| O560 Euro VI Facelift Comfort Class | Main texture: O560_TE6FL_Main |
| | Glass texture: O560_TE6FL_Glass |



Painting

Use the **Glass** texture to paint the windows, doors windows and windshield. Paint on the "Draw here" layer. You can add more layers if needed.

When you are ready to save the **Glass** file:

1. Merge down the layer "Windows opacity" with the "Background" layer
2. Merge down the layer "Draw here" with the "Background" layer
3. Save it as .DDS texture BC3 DXT5

Use the **Main** texture to paint the body. Paint on the "Draw here" layer. You can add more layers if needed.

When you are ready to save the **Main** file:

1. Set the opacity of the "Main.dds > Grids" layer to 2%
2. Set the opacity of the "Main.dds > Lights" layer to 10%
3. Merge down the "Draw here" layer to the "Main.dds" layer
4. Set the opacity of the "Main.dds" layer to 6%
5. Save it as .DDS texture BC3 DXT5

Customizable Parts

If you need to add more entries in your .cti file to customize more parts on your coach : see all the customizable textures in this table. Please use the "template.cti" in the "Addon" folder and change it as you need.

| .CTI texture name | File texture name |
|--------------------------------|---|
| farbschema_tex1 (necessary) | O560_xx_Main.dds – Body paint |
| farbschema_tex2 | O560_xx_Int.dds – Floor and interior walls paint |
| farbschema_tex3 | O560_xx_Int2.dds – Plastics, poles and curtains paint |
| farbschema_tex4 (necessary) | O560_xx_Glass.dds – Windows paint |
| ctc_seats_passenger1 | O560_Seats_xx.dds (Travel/Eco) – Passengers seats |
| ctc_seats_passenger2 | O560_Seats_Fold_xx.dds (Travel/Eco) – Wheelchair area seats |
| ctc_seats_driver | O560_Seats_Driver_xx.dds (Travel/Blank) – Driver seat |
| ctc_wheels | e-wheels.dds – Wheels |
| ctc_mirrors | e-mirrors.dds – Mirrors option 1 "Premium" |
| ctc_plate | O560_Kennzeichen.dds – Ident. Plate |
| ctc_black_tint_klapfenster_ext | black_tint_klapfenster_ext.tga – Exterior tint hinged windows |
| ctc_black_tint_klapfenster_int | black_tint_klapfenster.tga – Interior tint hinged windows |
| ctc_black_tint_windows_ext | black_tint.tga – Exterior additional black tint windows |
| ctc_clima | O560_clima.dds – Exterior air conditioner |



| | |
|---|---|
| ctc_seats_passenger3 (Comfort Class) | O560_Seats_Travel_Racks.dds – Carpet on the racks |
|---|---|

CTI Variables

To customize your coach you can also assign variables in the .cti file of your repaint. Set the desired value to define the option. Find in the following table the according option for every CTI variable. Please use the "template.cti" in the "Addons" folder and change it as you need.

| [setvar] | Values | Description | Versions |
|----------------------------|--------|--|----------------------------------|
| vis_display_side | 0/1 | 0 – no side matrix destination display 1 – side matrix destination display | all |
| vis_display_rear | 0/1 | 0 – no rear matrix destination display 1 – rear matrix destination display | all |
| vis_inner_mirror | 0/1 | 0 – additional interior mirror 1 – no additional interior mirror | all |
| vis_haltewunsch | 0/1 | 0 – gray stop buttons 1 – yellow stop buttons | Normal and Lite versions |
| vis_additional_haltewunsch | 0/2 | 0 – gray additional stop buttons 1 – yellow additional stop buttons 2 – no additional stop buttons | Euro VI (Normal + Lite) versions |

| [setvar] | Values | Description | Versions |
|----------------------------|---------------|--|--------------------------|
| vis_additional_haltewunsch | 0/2 | 0 – no additional stop buttons 1 – gray additional stop buttons 2 – yellow additional stop buttons | Euro V versions |
| vis_wheels | 0/1 | 0 – wheel nuts 1 – wheel hubcap | all |
| vis_rear_doors | 0/1 | 0 – fully glazed doors 1 – paintable doors | all |
| vis_pattern | 0/1 | 0 – default pattern on the interior walls 1 – no default pattern on the interior walls | Normal and Lite versions |
| vis_curtains | 0/1 | 0 – curtains 1 – no curtains | Normal and Lite versions |
| vis_mirrors | 0/1 | 0 – classic mirrors 1 – premium mirrors | all |
| vis_fenster_type | 0/1 | 0 – hinged windows 1 – no hinged windows | Normal and Lite versions |
| vis_aircond | 0/1 | 0 – no air conditioner 1 – air conditioner | Normal and Lite versions |



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