

## Documentation

# Vehicles Overhauling Script (VO)

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## What is this script?

Vehicles Overhauling (VO) is a free Arma 3 script that provides a system of repairing, refueling, and rearming vehicles by proximity and with any asset of your choice. Also, the services are divided by doctrine: Ground, Air, and Nautical.

Each doctrine and even service is easily turned Off or On, according to the editor's needs. If needed, the editor can allow repairing just for ground vehicles while unavailable for air ones, for example. Triggering or code via Eden Editor is needless. VO is configured through only one file, prioritizing implementation simplicity and quick change management that the mission editor might want.

## Can I use it for multiplayer missions?

Yes, VO was mainly built for multiplayer missions such as PvP, Coop/PvE, TvT.

## Can I use it on Hosted and Dedicated servers?

Yes, the script was built for both server types, mainly dedicated ones.

## Can I use it for single-player missions?

Probably, yes, but not tested yet.

## Is it compatible with ACE?

Yes, VO detects when the server is running ACE and makes some adjustments automatically.

## Is it compatible with content mods like RHS or CUP?

Yes! Actually, all RHS ammo, repair, and fuel vehicles already are tracked by VO.

You can easily do the same to any mod you want, just including the classname of the assets in [fn\\_VO\\_parameters.sqf](#) file.

## How to just run the script for a first look?

1. Go to <https://steamcommunity.com/sharedfiles/filedetails/?id=2758919670>
2. Subscribe and wait for Steam to download it;
3. Open Arma 3, go to Multiplayer > Server browser > Host server > click Host Server button;
4. Select “Virtual Reality” map and, after that, select “VEHICLES  
OVERHAULING SCRIPT”;
5. Play.

**Important:** in this way, you cannot read the instructions added through comment pins. To check these comments, you must [inspect the example](#) via Eden Editor.

## How to inspect the mission example?

1. Go to <https://github.com/aldolammel/Arma-3-Vehicles-Overhauling-Script>
2. Download the zip and open it;
3. Copy the folder “vehicles-overhauling.VR” into the editable mission folder:  
DRIVE:\Users\yourName\Documents\Arma 3\yourProfile\missions\
4. Open Arma 3, and try the example on Eden Editor.

**Important:** In Eden Editor, after the mission loading, press “E” to show the assets folders and to unlock them when needed.

## How to install the script in my own mission? ★★★

1. Go to <https://github.com/aldolammel/Arma-3-Vehicles-Overhauling-Script>
2. Download the zip and open it;
3. In zip, find the folder “vehiclesOverhauling” and copy it to your mission folder root: `DRIVE:\Users\yourName\Documents\Arma 3\yourProfile\missions\yourMission\`
4. In the mission folder root, if you don't have a “`description.ext`” file, create one and there add the code down below:

```
class cfgFunctions
{
    // VEHICLES OVERHAULING: REPAIR, REARM, REFUEL
    #include "vehiclesOverhauling\THY_functions.hpp"
};
```

5. Still in your mission folder, open [\vehiclesOverhauling\fn\\_VO\\_parameters.sqf](#) file and perform all customs you need.

## How to config the *fn\_VO\_parameters.sqf*?

*fn\_VO\_parameters.sqf* is the only file you need to check if the script will run as you need. There, you can turn ON or OFF each service (rearm, refuel, repair) by doctrine (ground, air, nautical). It means you can allow repairing only for ground vehicles but keep it unavailable for nautical and air vehicles, for example.

Also, you can set if drone vehicles will need a player presence to start a service or if only the terminal connection is enough for.

```
// File: your_mission\vehiclesOverhauling\fn_VO_parameters.sqf
// by thy (@aldolammel)

if (!isServer) exitWith {};

// EDITOR'S OPTIONS:

VO_debugMonitor = false;           // true = turn on the editor h
VO_feedbackMsgs = true;            // true = the station shows ser
VO_dronesNeedHuman = false;        // true = player presence i
ACE_servicesToo = false;           // true = also use ACE refueli

// GROUND SERVICES
groundVehiclesOverhauling = true;      // true = the mission

    VO_grdServRepair = true;          // true = repair stations
    VO_grdServRefuel = false;         // true = refuel stations
    VO_grdServRearm = false;         // true = rearm stations f
    VO_grdServFull = true;           // true = chosen assets will
    VO_grdServiceRange = 20;          // in meters, the area ar
    VO_grdCooldown = 10;              // in seconds, time among each
    // Drone vehicles accept (at moment) one ground full function
```

The file path:

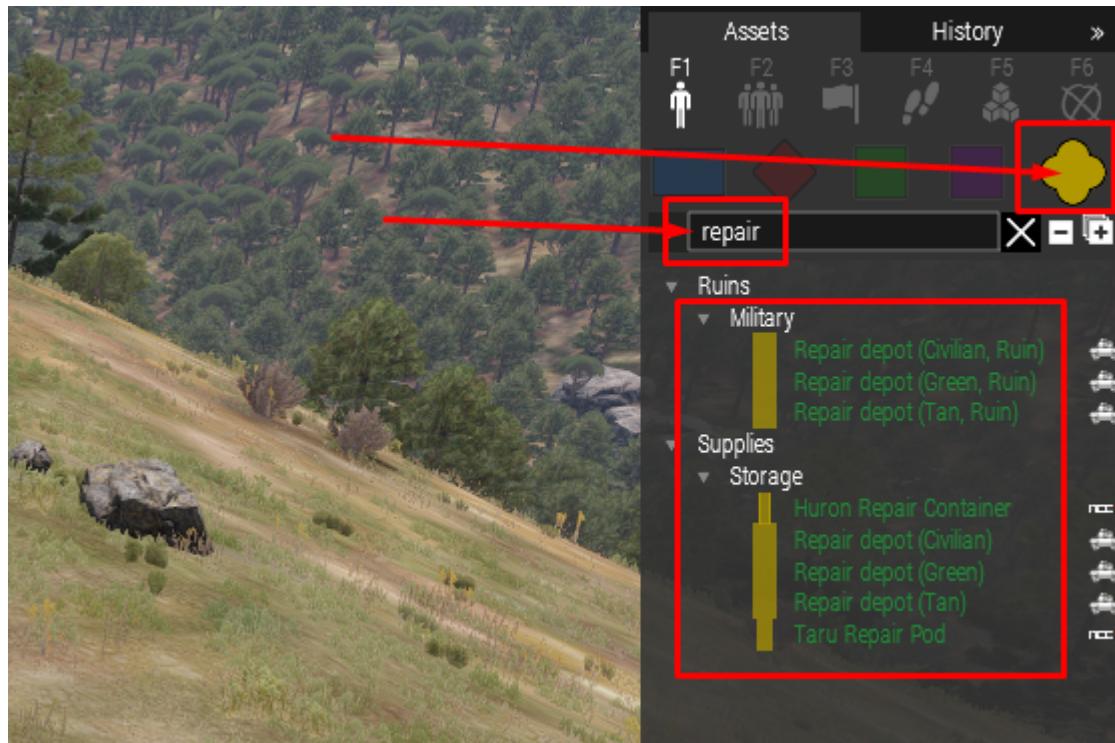
DRIVE:\Users\yourName\Documents\Arma  
3\yourProfile\missions\missionFolder\vehiclesOverhauling\fn\_VO\_parameters.sqf

**Important:** make sure you got in your mission all assets will be used as service stations. I will help you [to add service stations in your mission](#) too.

## How to add service stations to my mission?

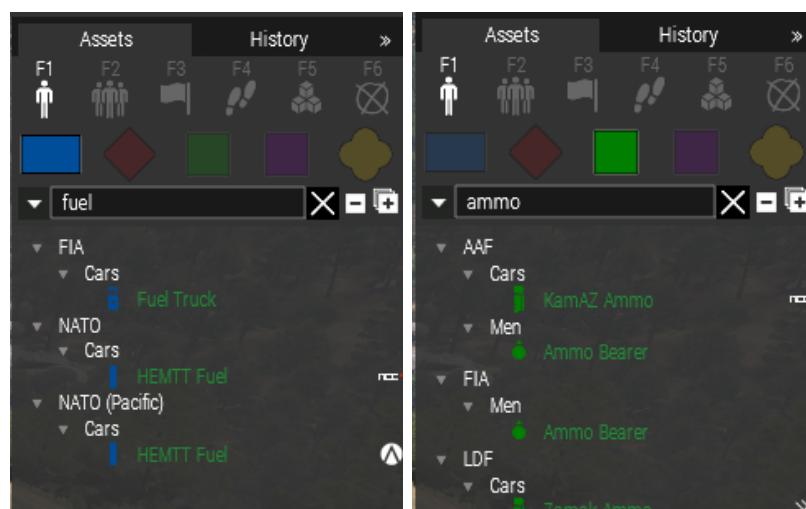
In Eden Editor, open your mission and then, on Assets Menu:

1. Click on Props (yellow icon);
2. Search for “repair” or “fuel” or “ammo”;



3. Drag and drop the asset “Repair depot” (for example) and done! No code, no trigger is needed.

Also, you can find station assets for rearming, refueling, and repairing in other asset categories. Check it out:



**Important:** don't forget to check if the [classname of the asset you choose is already tracked](#) by VO script.

## The asset is not working as a station. What should I do?

All Arma 3 vanilla assets that you can consider as repair, refuel, or rearm stations are already configured as an available station in VO script, as well as assets from Apex, Contact, Jets, Tanks, Helicopters, Karts, and Western Sahara DLCs, and RHS mod.

If you are trying to use an asset from another mod or DLC, [add each asset classname](#) in *fn\_VO\_parameters.sqf* to the VO track it. In the example next, it's all assets already recognized by VO to be refueling stations for air vehicles:

```
// Define which assets (classnames) are air refuel stations:  
VO_airRefuelAssets =  
[  
    "Land_MobileLandingPlatform_01_F",  
    "C_Van_01_fuel_F",  
    "I_G_Van_01_fuel_F",  
    "O_G_Van_01_fuel_F",  
    "B_G_Van_01_fuel_F",  
    "C_Truck_02_fuel_F",  
    "I_E_Truck_02_fuel_F",  
    "I_Truck_02_fuel_F",  
    "O_T_Truck_02_fuel_F",  
    "O_Truck_02_fuel_F",  
    "O_T_Truck_03_fuel_ghex_F",  
    "O_Truck_03_fuel_F",  
    "B_T_Truck_01_fuel_F",  
    "B_Truck_01_fuel_F",  
    "Land_FuelStation_02_workshop_F",  
    "Land_Pod_Heli_Transport_04_fuel_F",           // Taru fuel pod  
    "B_Slingload_01_Fuel_F"                         // Huron fuel container  
];
```

**Important:** if you add more assets, be careful with the quote and comma logic for each asset classname added. The last one never gets a comma. The order of inclusion doesn't matter.

## Where can I find the asset classname?

The asset classname can be found by putting the mouse arrow over the asset on Eden Editor as shown down below:



Sometimes you don't need or don't wanna include more assets in a map where you already got infrastructure that can be considered a station. In this case, you can use a "joker" which means an [invisible asset already tracked by VO script](#). Next, I'll help you to get the idea.

## How to make a non-editable building from any map become a station?

VO works automatically after installation in your mission, tracking specific assets dropped by the mission editor. However, sometimes you don't need or don't wanna include too much more assets in a map where you already got infrastructure that can be considered a station. In this case, you wanna set a non-editable assets group as a station and **non-editable assets on the map can't be tracked automatically** by VO.

Here is the solution: let's imagine you wanna transform the whole building below (a non-editable building in Altis) into a refuel station for ground vehicles:



In case, you can use a "joker" asset already tracked by VO script. Give a go:

1. In Eden Editor > Assets menu > Props category > search for "fuel";
2. Drag and drop an already tracked asset for refueling: *Land\_fs\_feed\_F*;

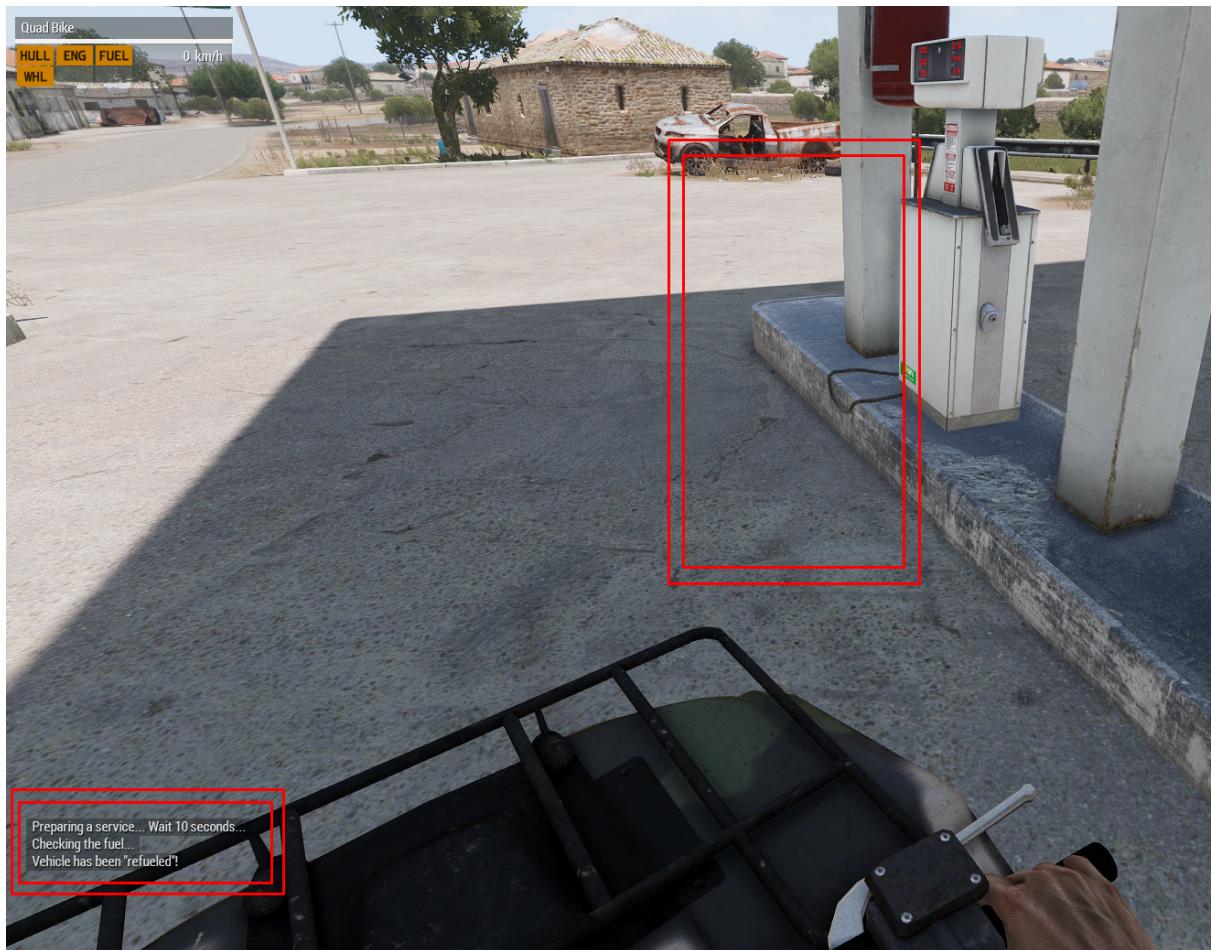


```
// Define which assets (classnames) are ground refuel stations:  
VO_grdRefuelAssets =  
[  
    "Land_fs_feed_F",  
    "Land_RefuelStation_Feed_F",  
    "Land_FuelStation_03_pump_F",  
    "Land_FuelStation_02_pump_F",  
    "Land_FuelStation_01_pump_malevil_F",  
    "Land_FuelStation_01_pump_F",  
    "C_Van_01_fuel_F",  
    "I_G_Van_01_fuel_F",  
    "O_G_Van_01_fuel_F",  
    "B_G_Van_01_fuel_F",  
    "C_ElectricCar_01_F"]
```

3. Double-click over the asset and make it invisible;



4. Done! You now got a fully functional proximity refueling station for ground vehicles. Congrats.



**Important:** if you wanna make an air station specifically for planes based in a non-editable building, [check the Parking Helper matter](#).

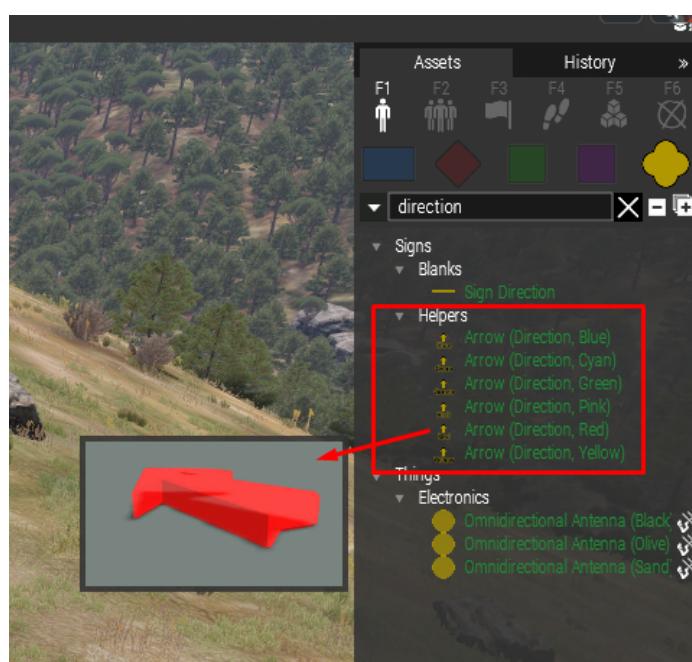
## Parking helper for planes

As you know, planes can not reverse themselves and air stations regularly are hangars where it is impossible for a plane to maneuver. Thinking about this issue, by default, all these assets below already park planes automatically after some service. Of course, you can expand the list as you wish through *fn\_VO\_parameters.sqf* file:

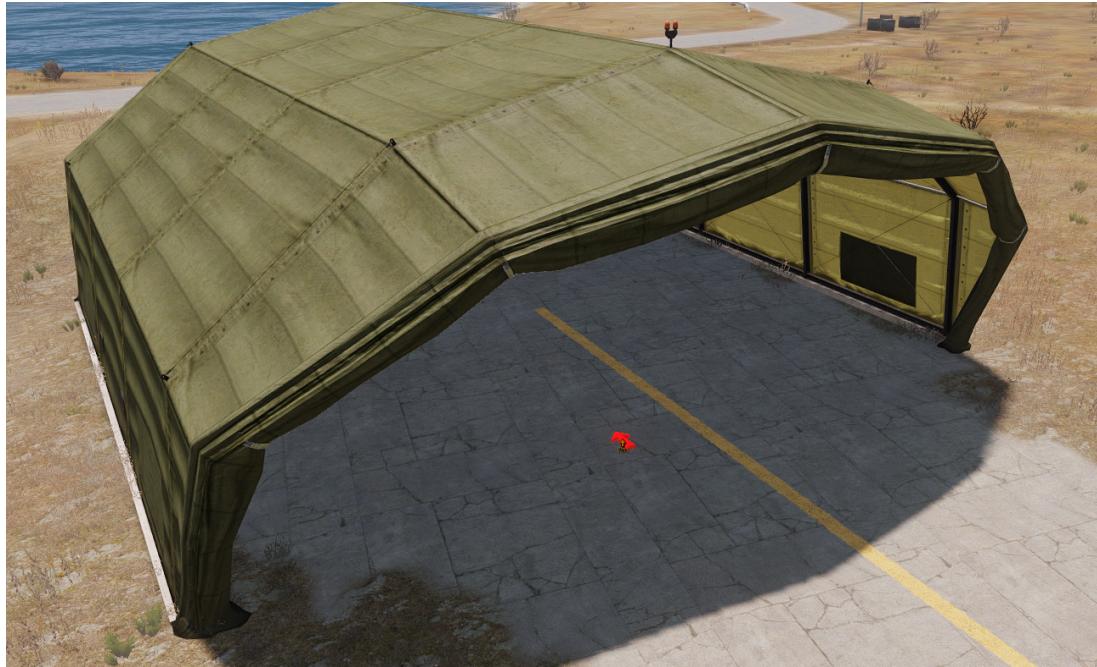
```
// Define which assets (classnames) are allowed to automatically park planes
VO_airParkingHelperAssets =
[
    "Sign_Arrow_Direction_F", // TIP: use this arrow
    "Sign_Arrow_Direction_Blue_F",
    "Sign_Arrow_Direction_Pink_F",
    "Sign_Arrow_Direction_Cyan_F",
    "Sign_Arrow_Direction_Green_F",
    "Sign_Arrow_Direction_Yellow_F",
    "Land_Hangar_F",
    "Land_Airport_01_hangar_F",
    "Land_TentHangar_V1_F"
];
```

If you want to make a non-editable building as an air station:

1. In Eden Editor > Assets Menu > Props category > search for “direction”;



2. Drag and drop one “Arrow Direction” into the non-editable building, always pointing inside the building;



3. To make the Parking Helper invisible during the mission, double-click over it and uncheck “Show model”:



Done! Before/After the plane approach with Parking Helper in-game:



## How can I contribute to the VO script?

Discussion on Bohemia Forums

<https://forums.bohemia.net/search/?q=Vehicles%20Overhauling%20Script>

Changelog on Github

<https://github.com/aldolammel/Arma-3-Vehicles-Overhauling-Script>

## Author

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