

# Diagnosis & Repair Manual

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## Diagnosis & Repair Main View

This is the repair and diagnosis section that can be accessed through the “Diagnosis & Repair” button on the top of the User Interface.

**Add Diagnosis & Repair Booking**

**Diagnosis & Repair Bookings**

Remove Booking      Update Booking

Add new Part      Add Duration of Work

Customer	Booking ID	Reg	Vehicle	Date	Start Time	End Date	End Time	Bay	Mechanic
Homer, Simpson	28	YD51 GTH	Audi, A6	2015-03-31	09:00	2015-04-02	09:30	3	Gollum

**Today**

Name	Reg	Start	Mechanic	Bay
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**Parts To Installed**

Part ID	Part Name	Price
1	Engine	400.0
2	Headlights	33.99
4	Wheel	12.99
5	Flux Capacitor	40000.01
6	Stereo System	60.0
7	Preused Gearbox	1.5
8	Drive Shaft	100.0
9	Air Bag	10.2
10	Driver	1.0

It consists of three tables, two of which show only Diagnosis and Repair booking information and the third shows part in stock information.

### Buttons

There are several buttons that provide the user with different functionalities of the system, such as adding, removing and updating a new booking. There are also two other buttons that contribute to the cost of the repairs taken place. One is for recording an addition of a new part to the vehicle, and the other is for registering the hours spent on a vehicle repair by the mechanic.

**Add Diagnosis & Repair Booking**

**Diagnosis & Repair Bookings**

Remove Booking      Update Booking

Add new Part      Add Duration of Work

## Main Table

The user can view all current and future appointments on the main table. It contains the following information: Customer name, Booking id, vehicle registration, vehicle model, date and time that the booking starts and ends, the bay that was assigned to and the mechanic that is assigned to the specific bay for that time period.

Customer	Booking ID	Reg	Vehicle	Date	Start Time	End Date	End Time	Bay	Mech
Elmer, Fudd	33	LP14 CUD	Ford, Focus	2015-03-30	09:00	2015-03-30	11:00	2	Gimley
Peter, Griffin	34	NF55 TUP	Audi, Q7	2015-03-30	09:30	2015-03-30	12:00	3	Gollun
Fred, Flintstone	29	JE54 DED	Volkswagen, Golf	2015-03-31	09:00	2015-04-03	11:30	4	Gandalf
Steve, Stevenson	31	EJ06 JVL	BMW, M4	2015-04-13	09:00	2015-04-15	10:00	6	Frodo
Bob, Builder	32	SH41 LZZ	Porsche, 911	2015-04-22	09:00	2015-04-23	11:30	5	Sam

## Today Table

The today table shows only bookings that start the current day. It contains the name of the customer, the registration of the car, the start time of the booking, the bay and mechanic assigned.

Name	Reg	Start	Mechanic	B
Elmer	LP14 CUD	09:00	Gimley	2
Peter	NF55 TUP	09:30	Gollum	3

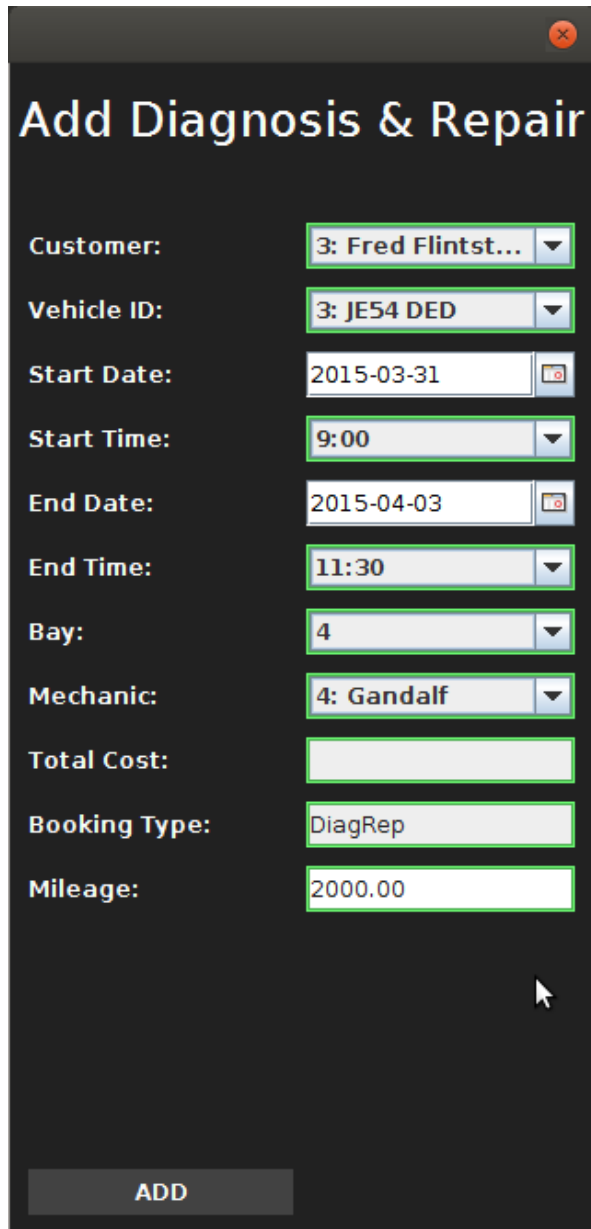
## Parts to Install Table

This table lists only the parts that are currently in stock. It provides the user with the ID, name and price of each part.

Part ID	Part Name	Price
1	Engine	400.0
2	Headlights	33.99
4	Wheel	12.99
5	Flux Capacitor	40000.01
6	Stereo System	60.0
7	Preused Gearbox	1.5
8	Drive Shaft	100.0
9	Air Bag	10.2
10	Driver	1.0

## Add Diagnosis & Repair Booking

This button opens a new window that contains a form which lists all the necessary information to create a booking. These include, customer, vehicle, start date and time, end date and time, bay, mechanic and mileage. To proceed and add a booking, all these information must be filled in correctly with the specified order and the add button will be enabled.



**Add Diagnosis & Repair**

Customer: 3: Fred Flintst... ▼

Vehicle ID: 3: JE54 DED ▼

Start Date: 2015-03-31 📅

Start Time: 9:00 ▼

End Date: 2015-04-03 📅

End Time: 11:30 ▼

Bay: 4 ▼

Mechanic: 4: Gandalf ▼

Total Cost:

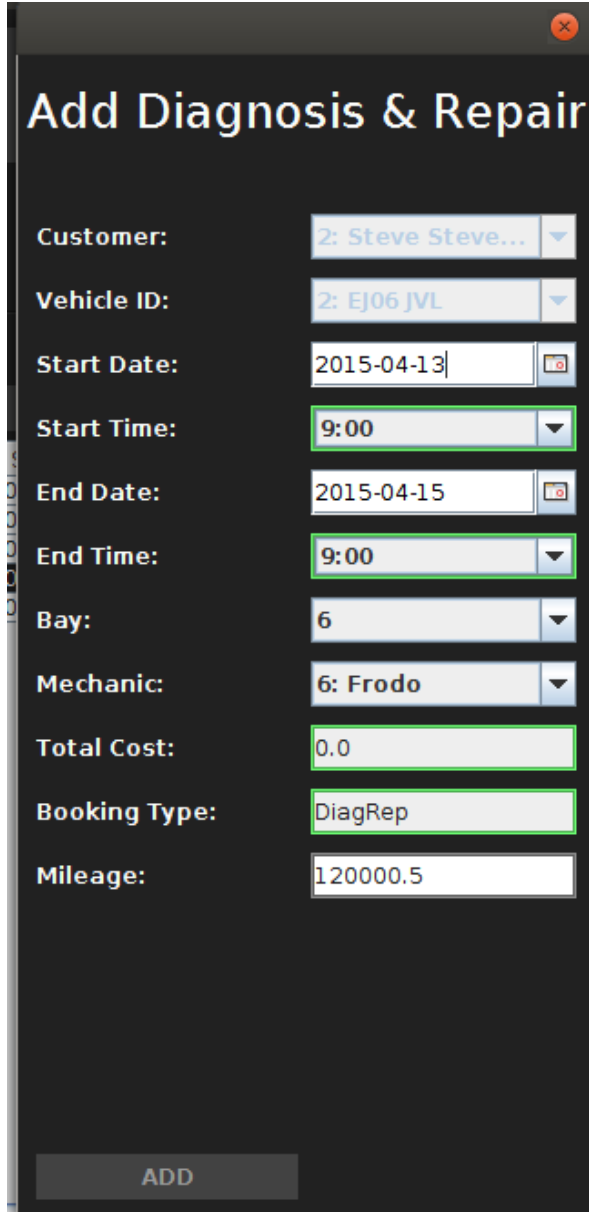
Booking Type: DiagRep

Mileage: 2000.00

**ADD**

## Update Booking

This button opens the same window that the “Add Diagnosis & Repair Booking” button opens, but with a few differences. The customer and vehicle cannot be changed and the total costs can be viewed here as when the new booking was entered there was nothing to charge for.



The screenshot shows a software window titled "Add Diagnosis & Repair" with a dark background. It contains several input fields and dropdown menus for booking information. The fields are arranged vertically on the left side of the window. The values entered in the fields are as follows:

Field	Value
Customer:	2: Steve Steve...
Vehicle ID:	2: EJ06 JVL
Start Date:	2015-04-13
Start Time:	9:00
End Date:	2015-04-15
End Time:	9:00
Bay:	6
Mechanic:	6: Frodo
Total Cost:	0.0
Booking Type:	DiagRep
Mileage:	120000.5

At the bottom of the window, there is a button labeled "ADD".



## Add new Part

This button can be used when the user selects a booking from the main table and a part from the “Parts to Install” table. As a result an expense, equal to the selected part’s price, is added to the total cost and the quantity of the stock available is decremented.

GMSIS – admin

Customers

Vehicles

Parts

Scheduled Maintenance

Diagnostic & Repair

Settings

Add Diagnosis & Repair Booking

Diagnosis & Repair Bookings

Remove Booking

Update Booking

Add new Part

Add Duration of Work

Customer	Booking ID	Reg	Vehicle	Date	Start Time	End Date	End Time	Bay	Mechanic
Homer, Simpson	28	YDS1 GTH	Audi, A6	2015-03-31	09:00	2015-04-02	09:30	3	Gollum
Fred, Flintstone	29	JES4 DED	Volkswagen, Golf	2015-03-31	09:00	2015-04-03	11:30	4	Gandal

Today

Name	Reg	Start	Mechanic	Bay
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Parts To Installed

Part ID	Part Name	Price
1	Engine	400.0
2	Headlights	33.99
4	Wheel	12.99
5	Flux Capacitor	40000.01
6	Stereo System	60.0
7	Preused Gearbox	1.5
8	Drive Shaft	100.0
9	Air Bag	10.2
10	Driver	1.0

## Add Duration of Work

This button opens a dialog to enter the number of hours the assigned mechanic spent repairing the vehicle. As a result the added time is multiplied by the hourly rate of the specific mechanic and added to the total cost.

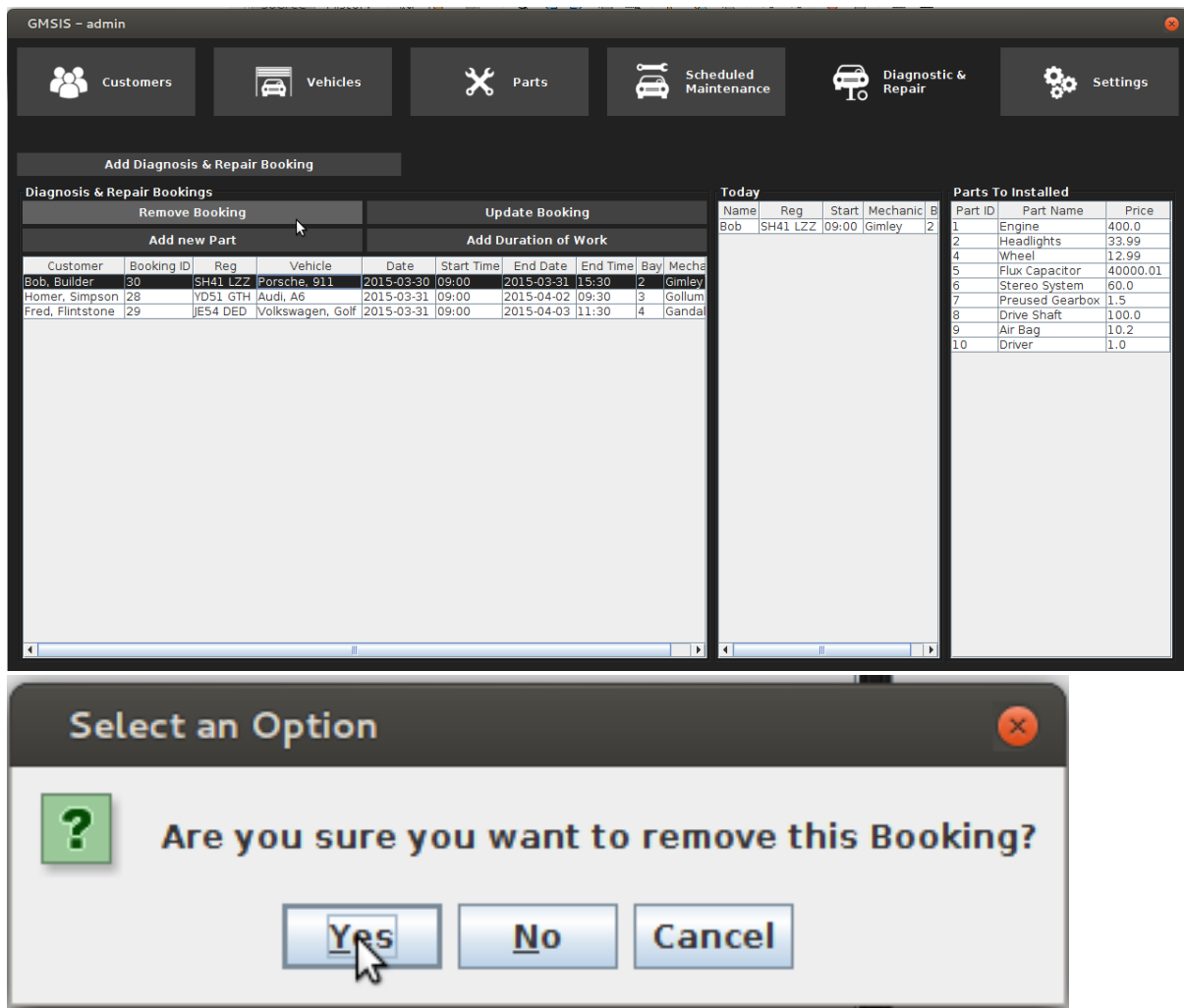
The screenshot shows the GMSIS - admin interface. At the top, there is a navigation bar with icons and labels for Customers, Vehicles, Parts, Scheduled Maintenance, Diagnostic & Repair, and Settings. Below this, there is a section titled 'Add Diagnosis & Repair Booking'. This section contains several sub-sections: 'Remove Booking', 'Update Booking', 'Add new Part', and 'Add Duration of Work'. The 'Add Duration of Work' sub-section is currently active, displaying a table with columns: Customer, Booking ID, Reg, Vehicle, Date, Start Time, End Date, End Time, Bay, and Mechanic. The table contains three rows of data. Overlaid on this table is a small 'Input' dialog box with a question mark icon, the text 'Enter number of hours worked:', a text input field containing the number '5', and 'OK' and 'Cancel' buttons. To the right of the 'Add Duration of Work' section, there are two other panels: 'Today' and 'Parts To Installed'. The 'Today' panel has columns for Name, Reg, Start, Mechanic, and Bay. The 'Parts To Installed' panel has columns for Part ID, Part Name, and Price, and contains a list of parts with their respective prices.

Customer	Booking ID	Reg	Vehicle	Date	Start Time	End Date	End Time	Bay	Mechanic
Homer, Simpson	28	YDS1 GTH	Audi, A6	2015-03-31	09:00	2015-04-02	09:30	3	Gollum
Fred, Flintstone	29	JES4 DED	Volkswagen, Golf	2015-03-31	09:00	2015-04-03	11:30	4	Ganda

Part ID	Part Name	Price
1	Engine	400.0
2	Headlights	33.99
4	Wheel	12.99
5	Flux Capacitor	40000.01
6	Stereo System	60.0
7	Preused Gearbox	1.5
8	Drive Shaft	100.0
9	Air Bag	10.2
10	Driver	1.0

## Remove Booking

This button removes a selected booking from the main table. A confirmation dialog will occur to minimize unwanted deletions.



The screenshot shows the GMSIS - admin interface. The top navigation bar includes buttons for Customers, Vehicles, Parts, Scheduled Maintenance, Diagnostic & Repair, and Settings. The main content area is titled 'Add Diagnosis & Repair Booking'. It features a 'Diagnosis & Repair Bookings' table with columns for Customer, Booking ID, Reg, Vehicle, Date, Start Time, End Date, End Time, Bay, and Mechanic. A 'Remove Booking' button is visible above the table. To the right, there are sections for 'Today' and 'Parts To Installed'. A confirmation dialog titled 'Select an Option' is displayed in the foreground, asking 'Are you sure you want to remove this Booking?' with 'Yes', 'No', and 'Cancel' buttons. A mouse cursor is hovering over the 'Yes' button.

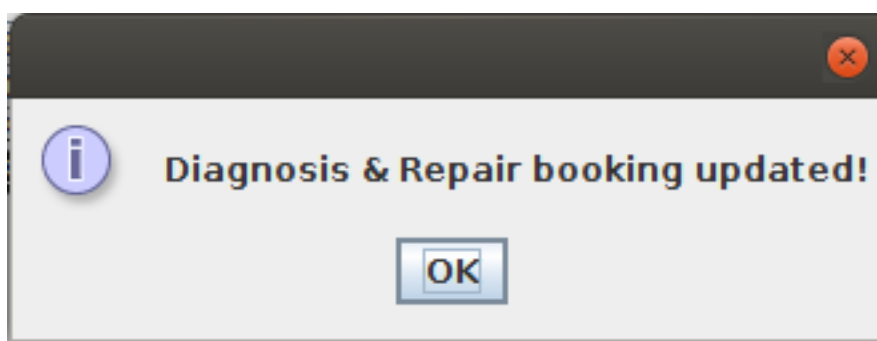
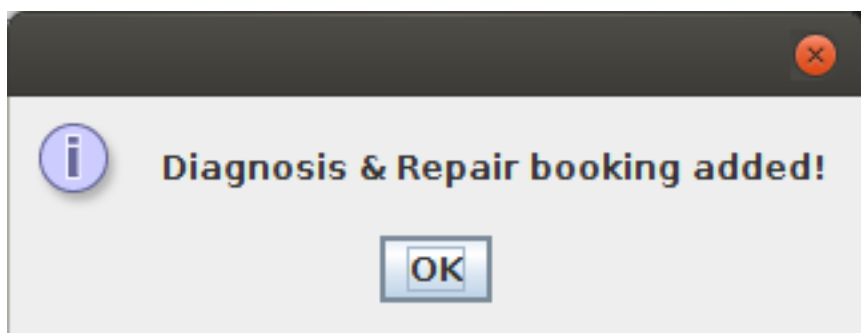
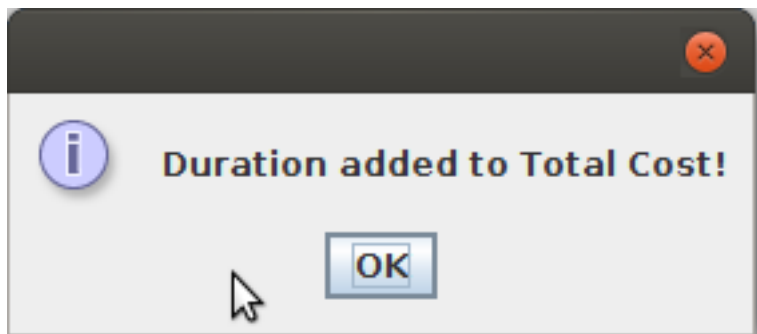
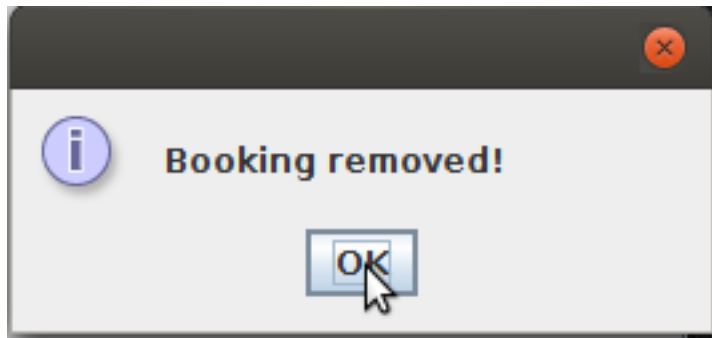
Customer	Booking ID	Reg	Vehicle	Date	Start Time	End Date	End Time	Bay	Mechanic
Bob, Builder	30	SH41 LZZ	Porsche, 911	2015-03-30	09:00	2015-03-31	15:30	2	Gimley
Homer, Simpson	28	YDS1 GTH	Audi, A6	2015-03-31	09:00	2015-04-02	09:30	3	Gollum
Fred, Flintstone	29	JES4 DED	Volkswagen, Golf	2015-03-31	09:00	2015-04-03	11:30	4	Gandal

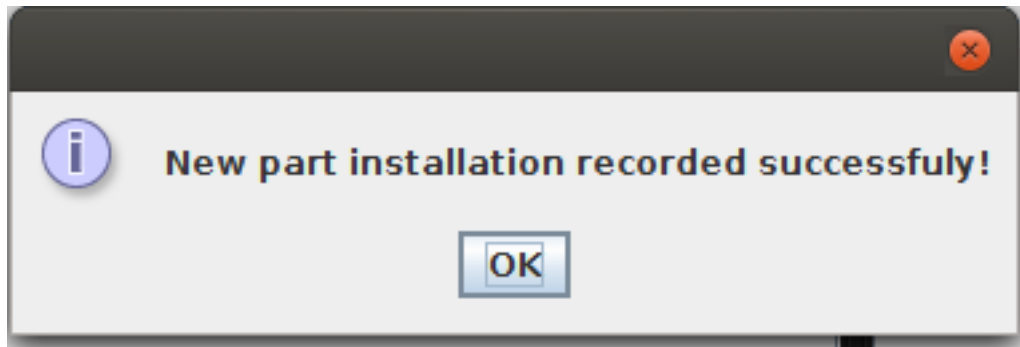
Name	Reg	Start	Mechanic	B
Bob	SH41 LZZ	09:00	Gimley	2

Part ID	Part Name	Price
1	Engine	400.0
2	Headlights	33.99
4	Wheel	12.99
5	Flux Capacitor	40000.01
6	Stereo System	60.0
7	Preused Gearbox	1.5
8	Drive Shaft	100.0
9	Air Bag	10.2
10	Driver	1.0

## Messages

On all functionalities of the Diagnosis and Repair section a message will be prompt when something is changed. For example when a booking is added, updated or removed. Also when you add a part or register working hours of a mechanic.





## Error Messages

The error messages will provide some information of what went wrong in the users attempt to do something with the system.

