



USER GUIDE

TOUCHSCREEN INTERFACE

Model(s): V1200

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Original Instructions



NRC-INDUSTRIES.COM

Serial number:



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Revision	Date	Description
1	2023-12-18	Added Chapter 2. Edited wording of a bullet point in 2.1. Added line to Chapter 1 about creating a new profile if needed. Added note about the Admin profile. Clarified description of the 4 digits password. Renamed 1.1. Removed duplicate content from Chapter 3 that is now in Chapter 2. Removed note about admin management functions. Renamed Chapter 3. Added description of the Warning bar to Chapter 5.
0	2023-11-13	Initial release

CONTENTS

LIMITED WARRANTY	9
ABOUT THIS MANUAL	11
1 LOGIN SCREEN	13
1.1 New profile	14
2 SCREEN LAYOUT	15
2.1 Notifications	17
3 HOME SCREEN	19
4 OPERATION SCREEN	21
5 TOW SCREEN (OPTIONAL)	25
6 TRUCK SCREEN	27
7 SETTINGS SCREEN	29
7.1 General settings	29
7.2 Profile settings	39
7.3 Brightness settings	41
7.4 Tow truck information	42
7.5 Notifications and sound settings	45
8 CAMERA SCREEN (OPTIONAL)	47
9 MAINTENANCE SCREEN	49
9.1 To Do list	50
9.2 Upcoming list	53
9.3 Done list	54
9.4 General list	55
10 MANUALS SCREEN	57

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H. WARRANTY TERMS

EQUIPMENT

TRUCK MOUNTED RECOVERY EQUIPMENT

SLIDING SYSTEM COMPONENTS

TOWING ACCESSORIES MANUFACTURED BY INDUSTRIES NRC

ACCESSORIES MANUFACTURED BY A THIRD PARTY

TERMS

12 MONTHS FROM "IN SERVICE" DATE. NO MORE THAN 24 MONTHS.

10 YEARS FROM DATE OF MANUFACTURING.

12 MONTHS FROM DATE OF MANUFACTURING.

THIRD PARTY WARRANTY APPLIES.

ABOUT THIS MANUAL

This manual will teach you how to use the touchscreen interface.

It contains the following sections, which you should read and follow in the order they are presented:

- Chapter 1 Login screen
- Chapter 2 Screen layout
- Chapter 3 Home screen
- Chapter 4 Operation screen
- Chapter 5 Tow screen (optional)
- Chapter 6 Truck screen
- Chapter 7 Settings screen
- Chapter 8 Camera screen (optional)
- Chapter 9 Maintenance screen
- Chapter 10 Manuals screen

Document conventions

The following conventions are used throughout this document:

NOTE: We highly recommend that you read this manual in full before using your NRC equipment.

Disclaimer

This manual, including the equipment specifications, is subject to change without notice. Ensure that you have the latest version of this manual before using your equipment.

Applicable models and serial numbers

This manual is intended for use with the following models with serial numbers within the following ranges only:

- CSR85-022 and CSR85-024+

1 LOGIN SCREEN

To access the V1200 touchscreen interface, log in or create a profile (see Section 1.1).

To log in, select your profile from the list of users. If requested, enter your PIN.


NOTE: The Admin profile is available by default. It allows you to access some additional settings (see Section 7.1.6).

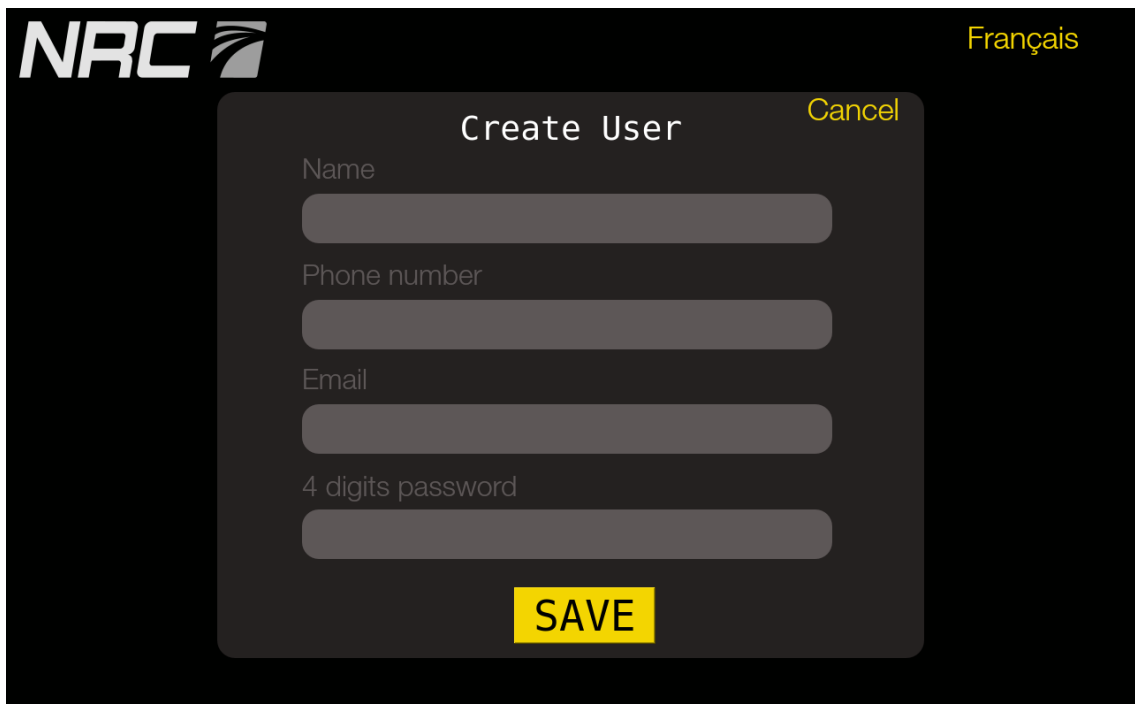


FIGURE 1 – LOGIN SCREEN

1.1 New profile

To create a new profile:

1. Tap  in the upper right corner.
2. Complete the fields as follows:
 - a. **Name:** Enter your name.
 - b. **Phone number:** Enter your phone number.
 - c. **Email:** Enter your email address.
 - d. **4 digits password:** This is your PIN. Enter four digits.



The screenshot shows a dark-themed interface with the NRC logo in the top left and the word 'Français' in the top right. A modal window titled 'Create User' is centered, featuring a 'Cancel' button in yellow text at the top right. Inside the modal, there are four input fields with labels: 'Name', 'Phone number', 'Email', and '4 digits password'. Each field is represented by a dark gray rounded rectangle. At the bottom of the modal is a prominent yellow button with the text 'SAVE' in black.





3. Tap **Save**.

2 SCREEN LAYOUT


After you log in, all pages of the touchscreen interface have a similar layout showing the following:



FIGURE 2 – SCREEN LAYOUT

Component	Description
1	<p>The header displays the following:</p> <ul style="list-style-type: none">: Date and time. See Section 7.1.2.: Tap to show notifications. See Section 2.1.: Tap to choose View profile or Log out.
2	<p>The body displays different information and options depending on which screen you're on.</p>
3	<p>The footer displays the following buttons:</p> <ul style="list-style-type: none">• Home: The home screen.• Operation: See Section 4.• Tow: See Section 5.• Truck: See Section 6.• Settings: See Section 7.• Camera: See Section 8.• Maintenance: See Section 9.• Manuals: See Section 10. <p>Screens with notifications will show a red circle . The screen you are currently on is highlighted in yellow.</p>

2.1 Notifications

To view notifications, tap  in the upper right corner. Examples of actions that trigger notifications include:

- Lifting an object that is heavier than the current limit.
- Rotating the boom out of the safe zone

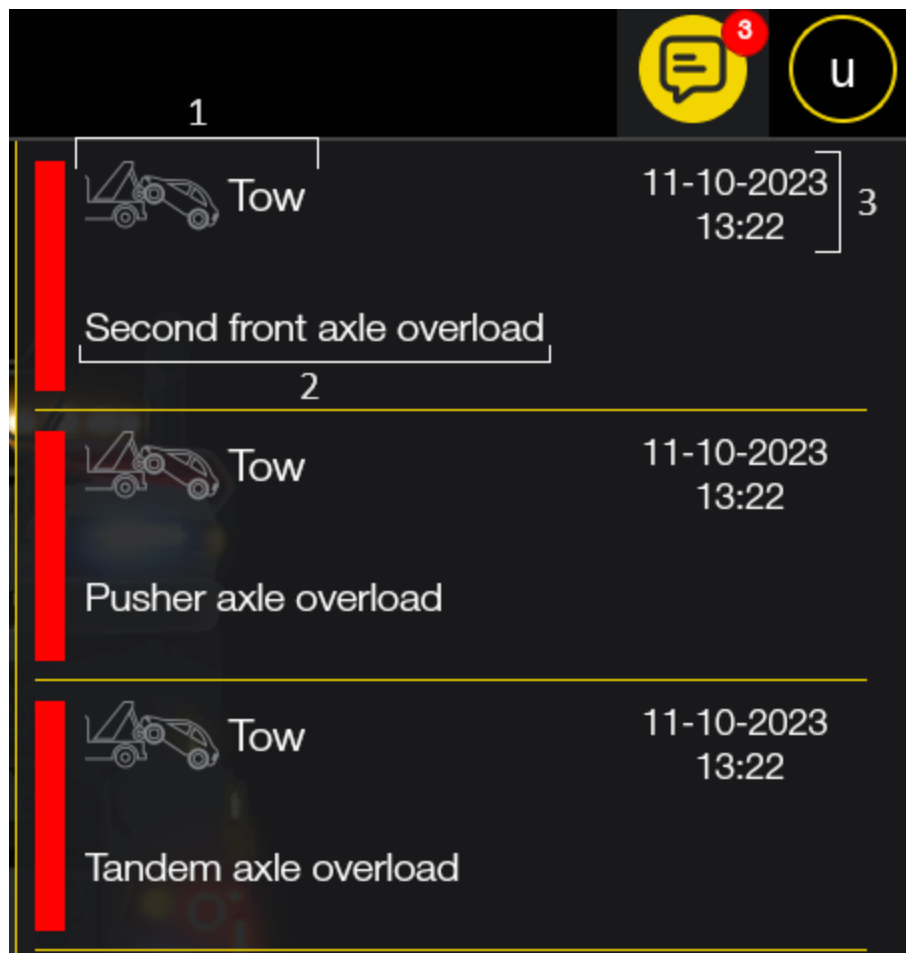


FIGURE 3 – NOTIFICATIONS

In the Notifications window, you can do the following:

- Tap a notification to go to the relevant screen.
- Swipe left on a notification to delete it.

Notifications will disappear on their own once the issue has been resolved. To mute notifications, see Section 2.

TABLE 1 – NOTIFICATION COMPONENT DESCRIPTIONS

Component	Description
1	The screen the notification is from.
2	The notification details.
3	Date and time of the notification.

3 HOME SCREEN

The Home screen of the touchscreen interface (Figure 4) displays shortcuts to the following:

- **Operation:** See Section 4.
- **Tow:** See Section 5.

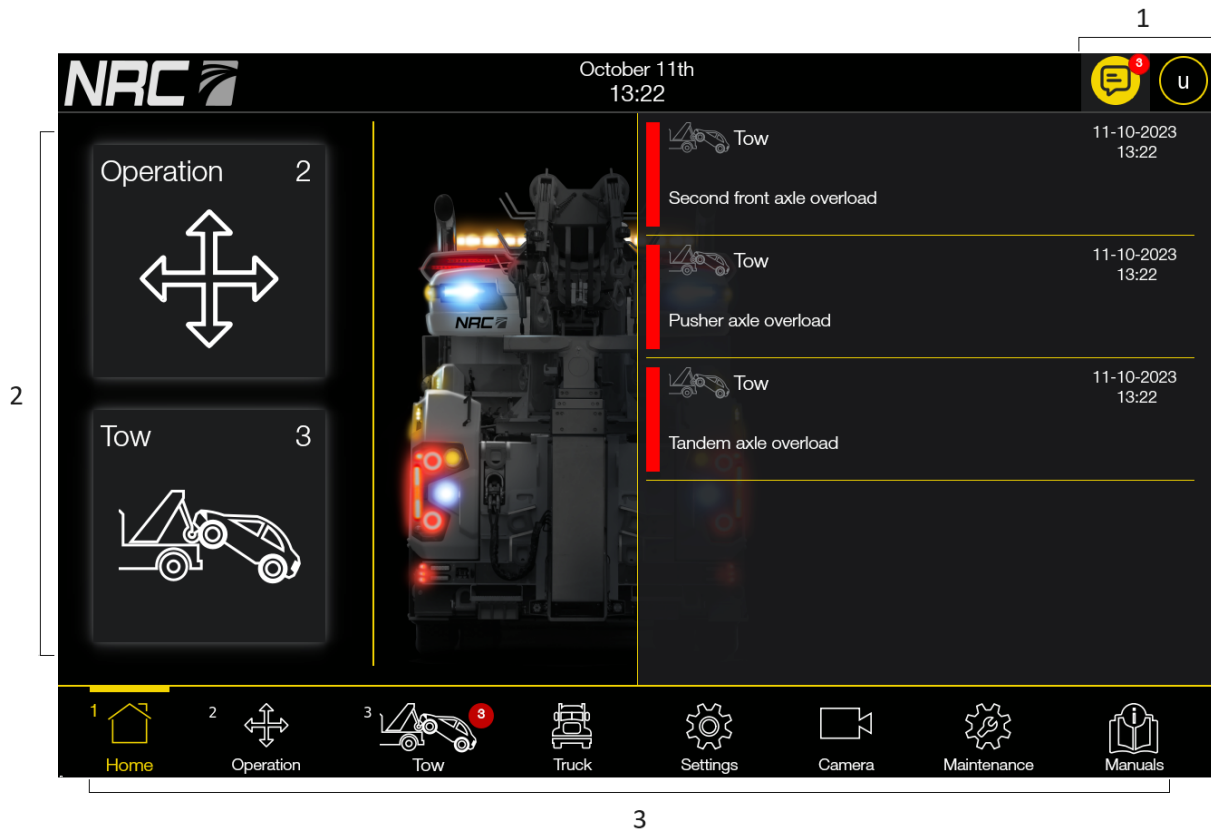


FIGURE 4 – HOME SCREEN OF THE V1200

4 OPERATION SCREEN

The Operation screen of the touchscreen interface (Figure 5) allows you to view various information about the wrecker.



FIGURE 5 – OPERATION SCREEN

TABLE 2 – HYDRAULIC SYSTEM DESCRIPTIONS (TOP BAR)

Element	Description
Oil Flow	Rate of the oil flow in the system.
Pump Actu.	Percentage of hydraulic pump activation.
Swing Press.	Rotation pressure.
Engine RPM	Engine rotation per minute of the tow truck.
Oil Temp.	Oil temperature.
Pressure	Upper value: Pump pressure. Lower value: X port pump pressure.

TABLE 3 – LOAD CHART DESCRIPTIONS

The values displayed on the screen are valid when all outriggers are fully extended on solid ground.

Item	Description
Rear lift	Lift capacity when lifting the load from the rear.
Side lift	Lift capacity when lifting the load from the side.

TABLE 4 – CENTRE COMPONENT DESCRIPTIONS

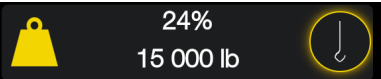




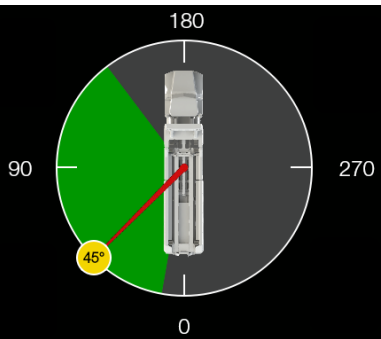
Item	Description
   	<p>Displays the following:</p> <ul style="list-style-type: none"> Percentage of the total lift capacity in use. Estimated mass of the current load that is being lifted. <p>Allows you to select the pulley configuration (single-, double-, or four-part tackle), which determines the calculation of the current load being lifted.</p>
	<p>Displays the hydraulic pressure for each outrigger:</p> <ul style="list-style-type: none"> Green: Piston side Yellow: Rod side <p>This information can be helpful when trying to level the wrecker, helping to assess if the outrigger is operating at maximum capacity.</p>
	<p>Displays the following:</p> <ul style="list-style-type: none"> Red line: Current angle of the boom position. When the boom is positioned at the rear of the wrecker, it is considered to be at 0°. In the figure above, the boom is located at 45°. Green area: Boom's positioning (rear or side) for lifting capability.

TABLE 5 – BOOM SPECIFICATIONS DESCRIPTIONS

Boom height	Height of the boom.
Boom angle	Angle of the boom.
Boom length	Length of the boom.
Lift Pressure	Lift pressure.

5 TOW SCREEN (OPTIONAL)

The Tow screen of the touchscreen interface (Figure 6) allows you to view the current axle loads and the height of the boom.

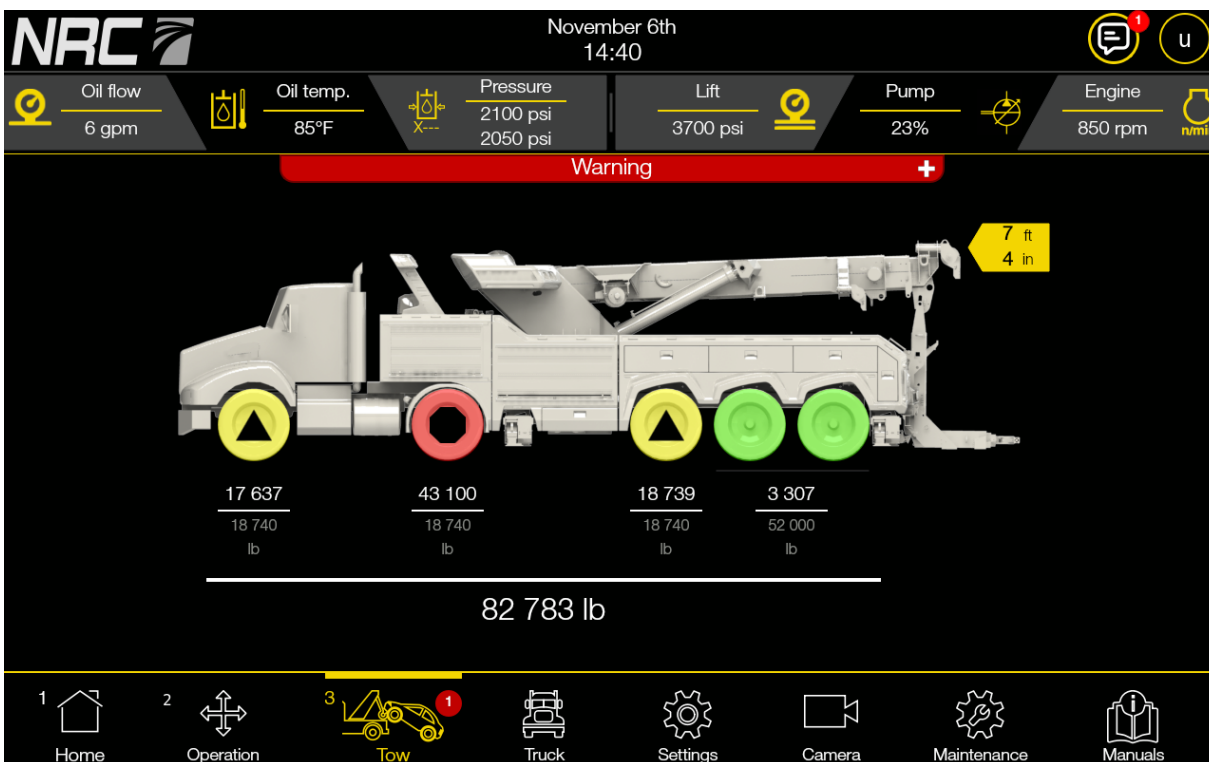


FIGURE 6 – TOW SCREEN

TABLE 6 – TOW SCREEN DESCRIPTIONS



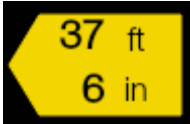
Element	Description
	Tap + to show warnings.
	Shows the current axle load and total axle capacity for all axles. The bottom row shows the combined capacity of all axles. The wheel colours and shapes indicate the following: <ul style="list-style-type: none"> Green: Axle capacity not exceeded. Yellow with triangle: Axle capacity close to limit. Red with octagon: Axle capacity exceeded.
	Height of the boom.

TABLE 7 – TOP BAR DESCRIPTIONS

Element	Description
Oil flow	Shows the rate of the oil flow in the system.
Oil temp.	Shows the oil temperature.
Pressure	Upper value: Pump pressure. Lower value: X port pump pressure.
Lift	Shows the lift pressure.
Pump	Shows the percentage of hydraulic pump activation.
Engine	Shows the engine rotation per minute of the tow truck.


6 TRUCK SCREEN

The Truck screen of the touchscreen interface (Figure 7) allows you to view information about the truck's status.



FIGURE 7 – TRUCK SCREEN

TABLE 8 – TRUCK SCREEN DESCRIPTIONS

Element	Description
Fuel Rate	The rate at which fuel is being consumed.
Engine Trip Fuel	The total fuel used for the current trip.
Average Fuel Economy	The average distance the vehicle can travel on a certain amount of fuel.
Battery Voltage	The battery voltage.
Engine Oil Pressure	The engine oil pressure.
Engine Load	The torque output of the engine.
External Temp.	The current outside temperature.
Engine Intake Temp.	The engine intake temperature.
Engine Coolant Temp.	The engine coolant temperature.
Engine Oil Temp.	The engine oil temperature.
Transmission Fluid Temp.	The transmission fluid temperature.
Engine Coolant Level	The engine coolant level.
	The engine speed.
ODO	Odometer. The total distance travelled.
Total Idle Hours	The total engine idle time in hours.
Engine Total Hours of Operation	The total engine operation time in hours.
P.T.O. Engaged Hours of Operation	The total number of hours of operation with the P.T.O. engaged.
Trip Distance	The distance travelled for the current trip.

7 SETTINGS SCREEN

The Settings screen of the touchscreen interface allows you to control the interface's settings.

7.1 General settings

In the General settings (Figure 8), you can view and edit information about the truck and touchscreen interface.

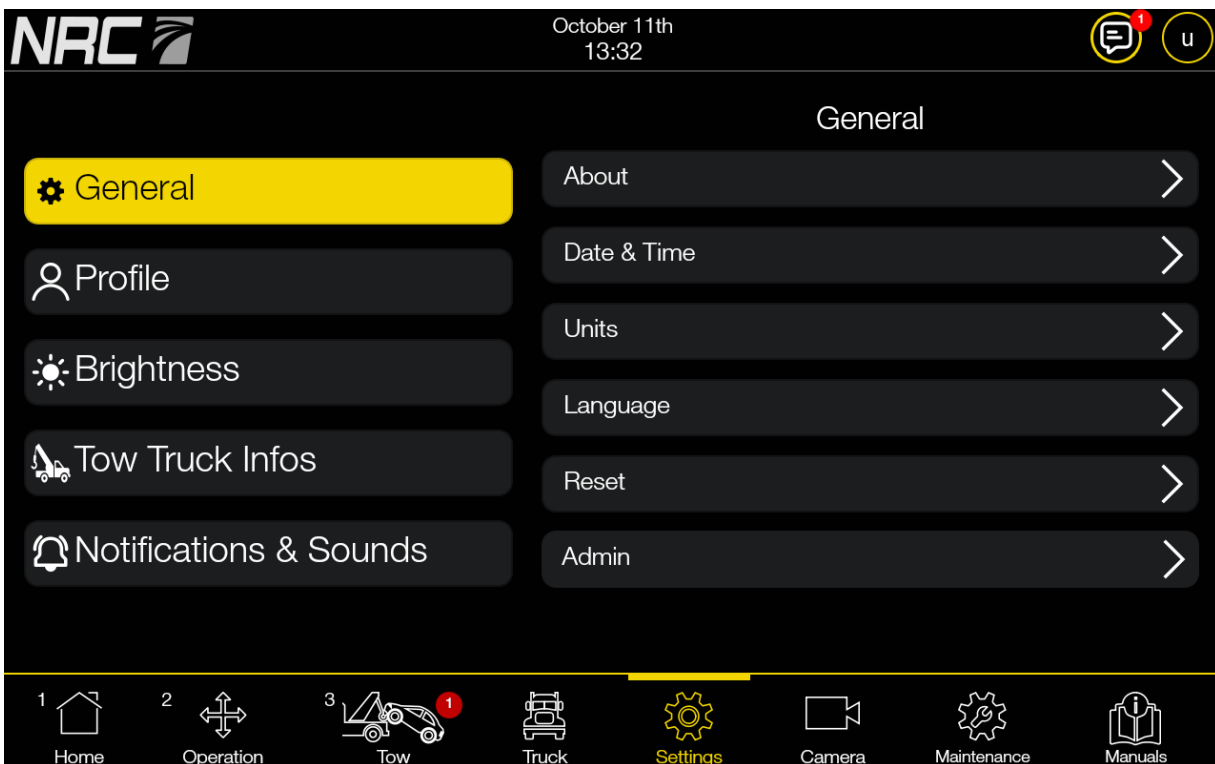


FIGURE 8 – GENERAL SETTINGS SCREEN

NOTE: The Admin option is only visible to administrators.

7.1.1 Viewing the truck information

To view the truck information, tap **General**, then **About**. You will see the following:

- Software version
- Model name
- Serial number

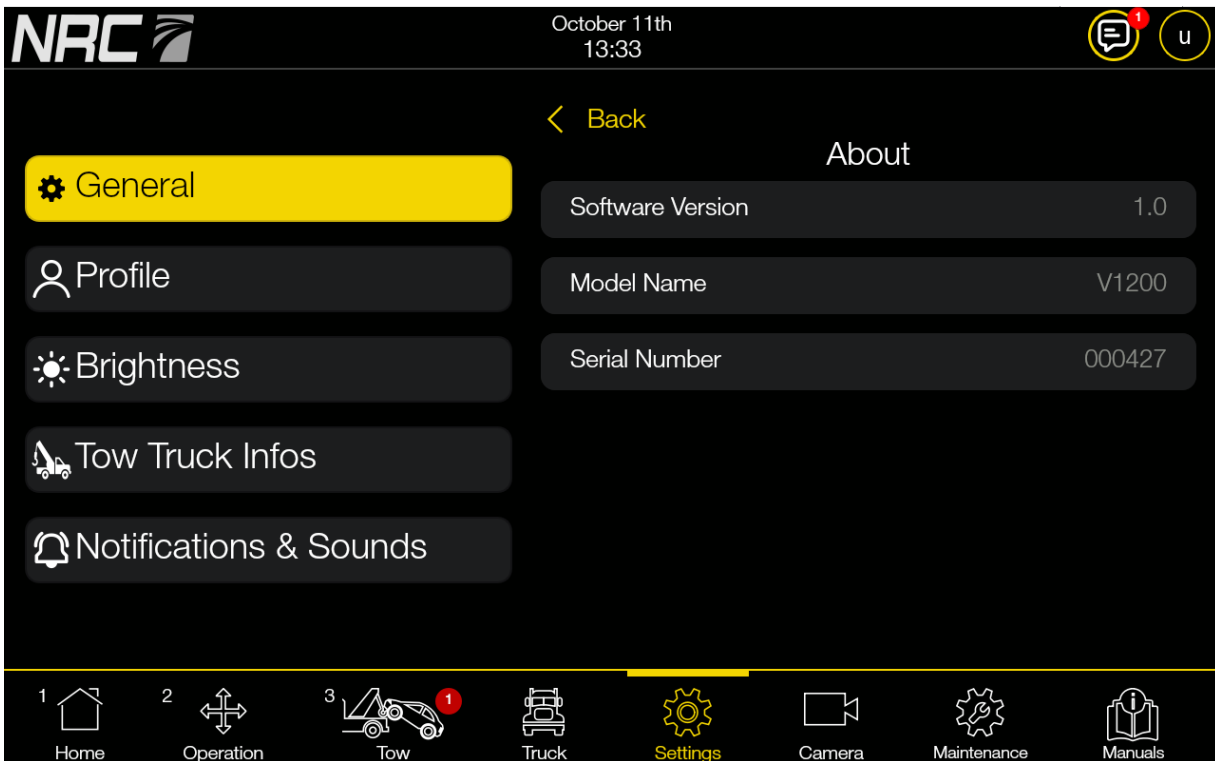


FIGURE 9 – ABOUT INFORMATION

7.1.2 Editing the date and time settings

To edit the date and time settings, tap **General**, then **Date & Time**.

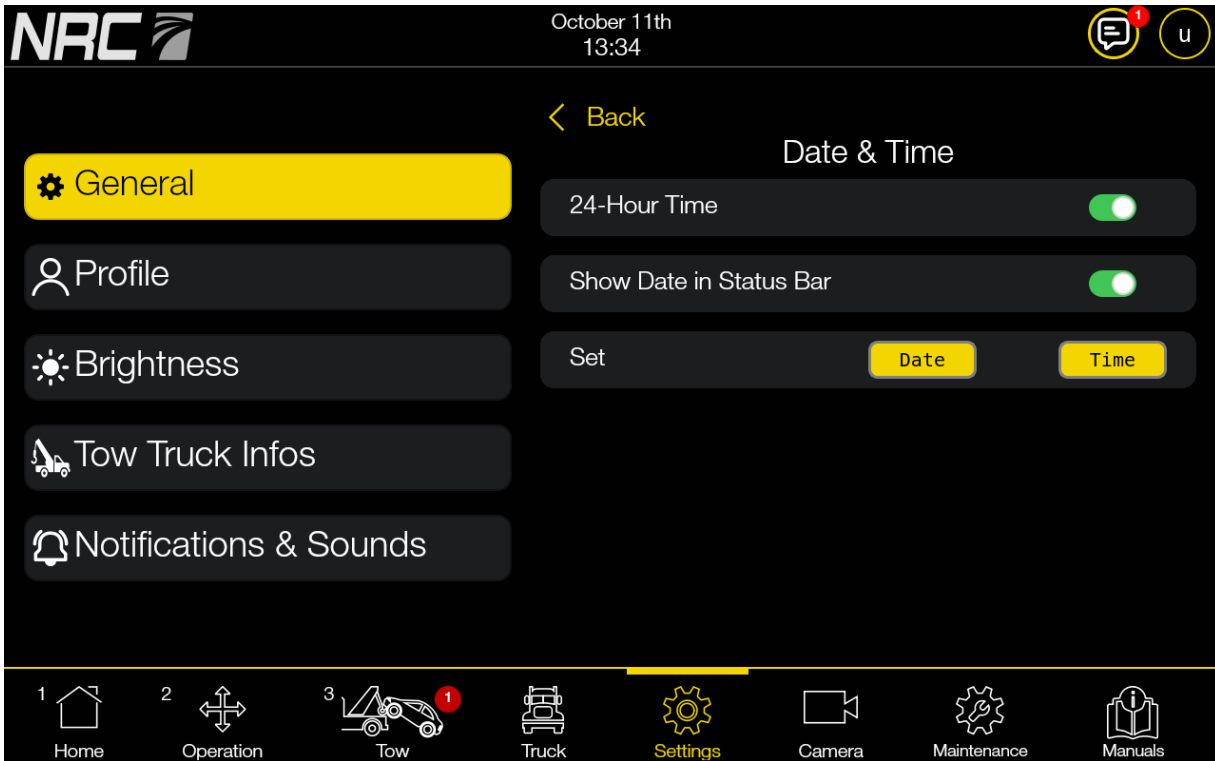


FIGURE 10 – DATE AND TIME SETTINGS

You can change the following settings:

- **24-Hour Time:** When toggled ON, the time is displayed in 24-hour format. When toggled OFF, the time is displayed in 12-hour format.
- **Show Date in Status Bar:** When toggled ON, the status bar at the top of the screen shows the date. When toggled OFF, the status bar does not show the date.
- Set **Date** and **Time**: See Section and Section .

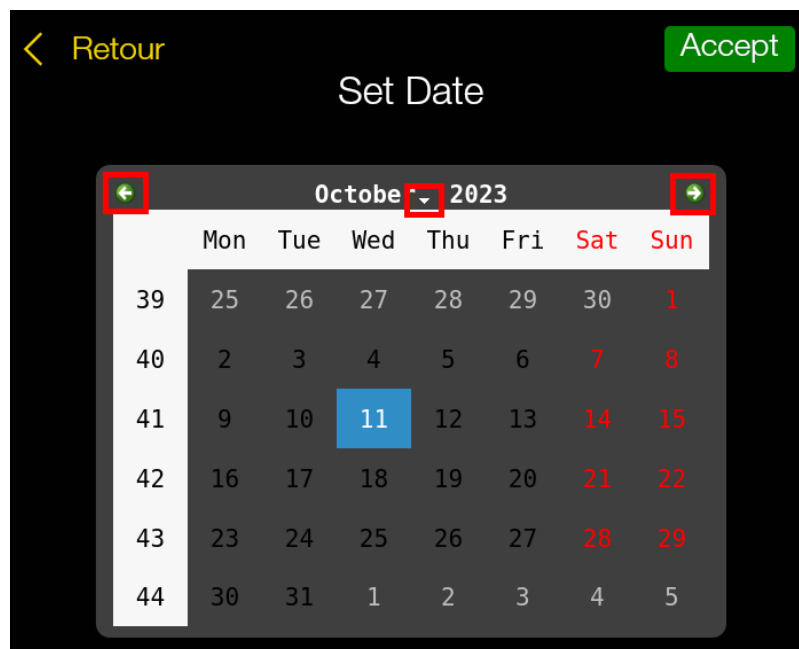
Setting the date

To set the date:

1. Next to **Set**, tap **Date**.



2. A calendar picker will appear. Set the date. You can change the month using the arrows.



3. Tap **Accept** in the upper right corner.

Setting the time

To set the time:

1. Next to **Set**, tap **Time**.



2. Scroll up or down through the hour and minute pickers to set the time.



3. Tap **Save** to set the time, or **Cancel** to abandon your changes.

7.1.3 Editing the unit settings

To edit the unit settings, tap **General**, then **Units**.

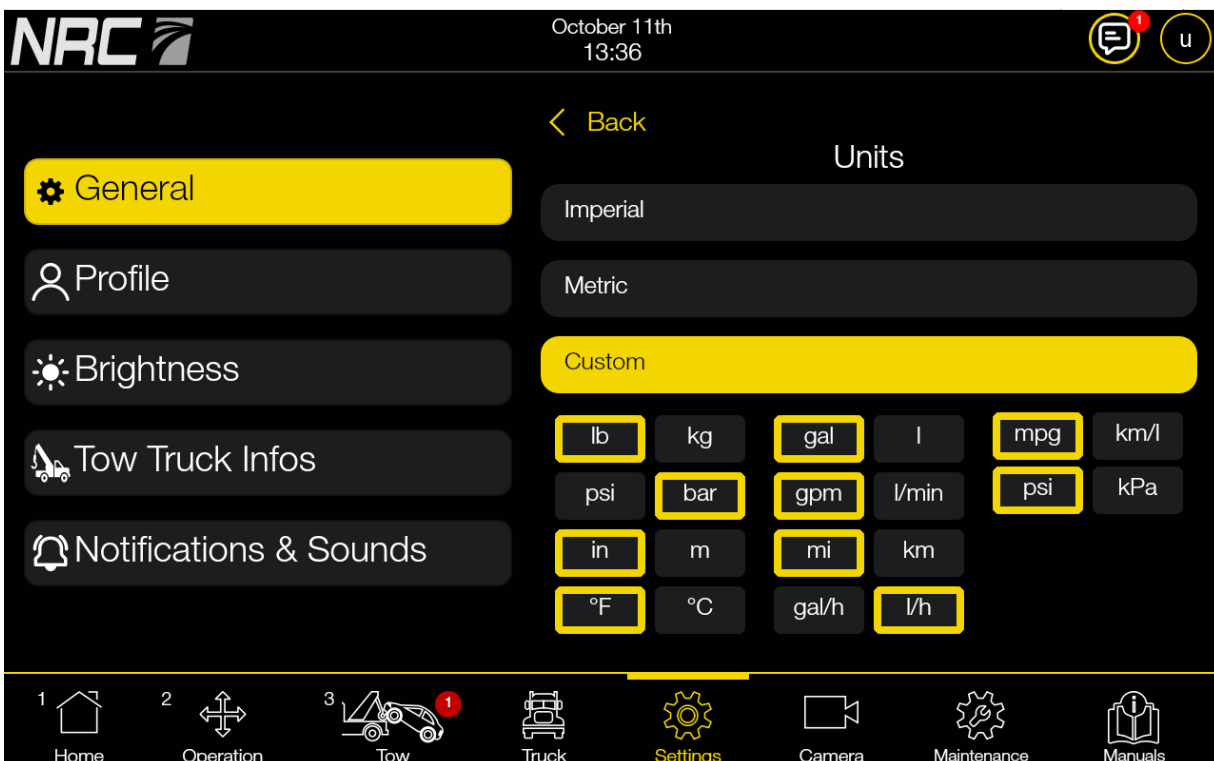


FIGURE 11 – UNIT SETTINGS

You can select from the following:

- **Imperial:** Use imperial units only.
- **Metric:** Use metric units only.
- **Custom:** Select which units you want to use. You can only select one option from each pair (see Table 9).

TABLE 9 – CUSTOM UNIT DESCRIPTIONS

Element	Description
lb / kg	pounds / kilograms
psi / bar	pounds per square inch / bar
in / m	inch / metre
°F / °C	degrees Fahrenheit / degrees Celsius
gal / l	gallon / litre
gpm / l/min	gallons per minute / litres per minute
mi / km	miles / kilometres
gal/h / l/h	gallons per hour / litres per hour
mpg / km/l	miles per gallon / kilometres per litre
psi / kPa	pounds per square inch / kilopascals These units are for displaying oil pressure.

7.1.4 Editing the language settings

To edit the language settings, tap **General**, then **Language**.

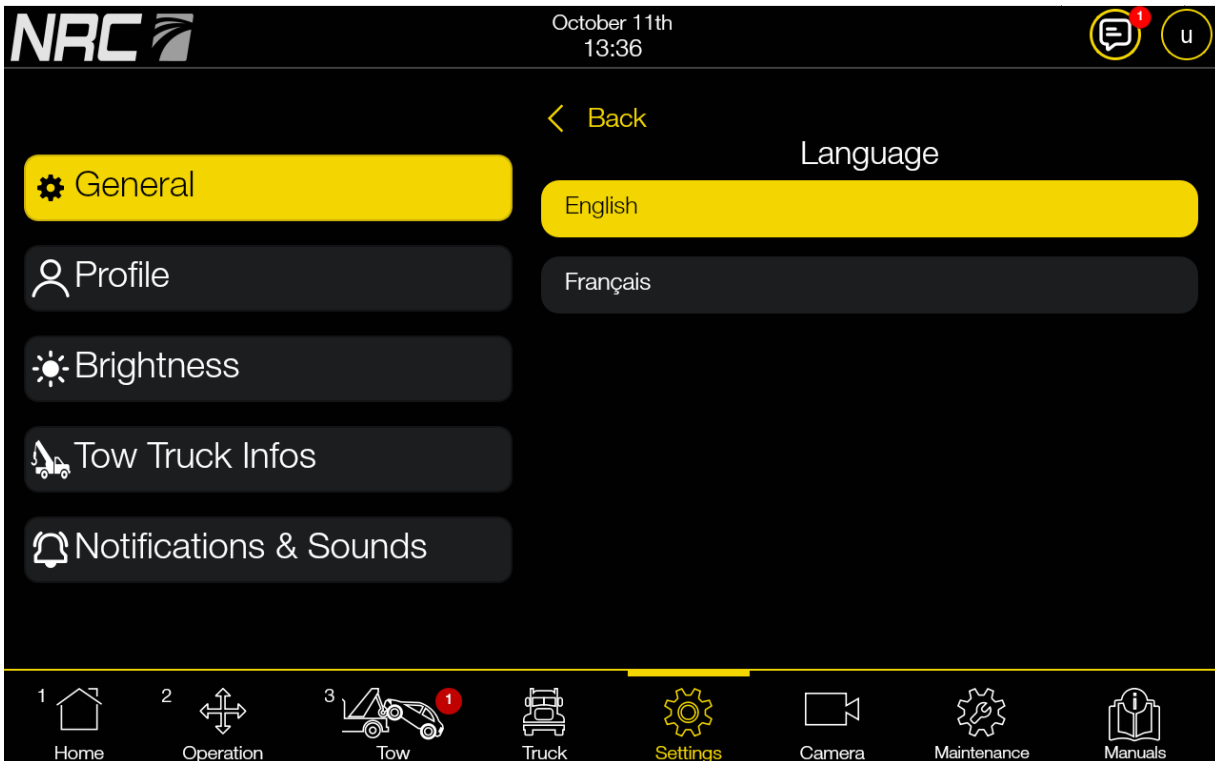


FIGURE 12 – LANGUAGE SETTINGS

You can select from the following:

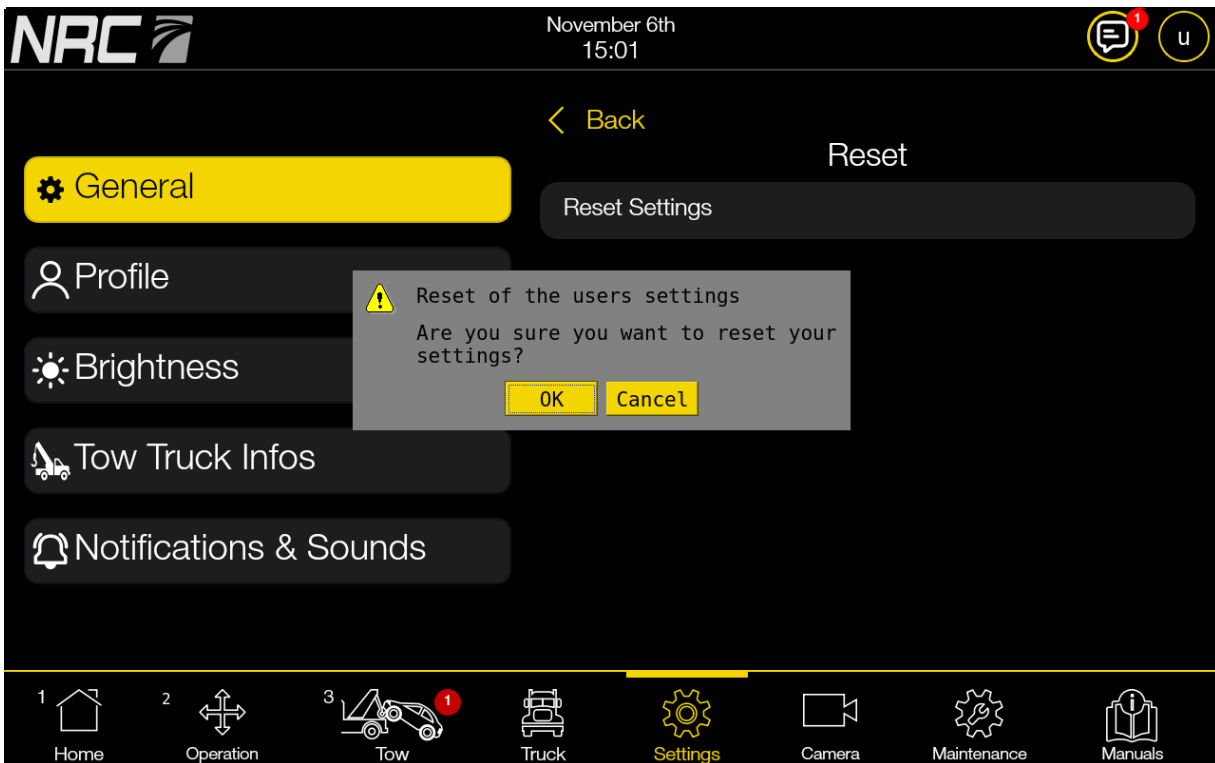
- **English**
- **Français**

7.1.5 Resetting the settings

To reset the interface's settings back to their initial values, tap **General**, then **Reset**.

To reset the settings:

1. Tap **Reset Settings**.
2. Tap **OK** in the window that appears.



7.1.6 Editing the admin settings

To edit the admin settings, tap **General**, then **Admin**.

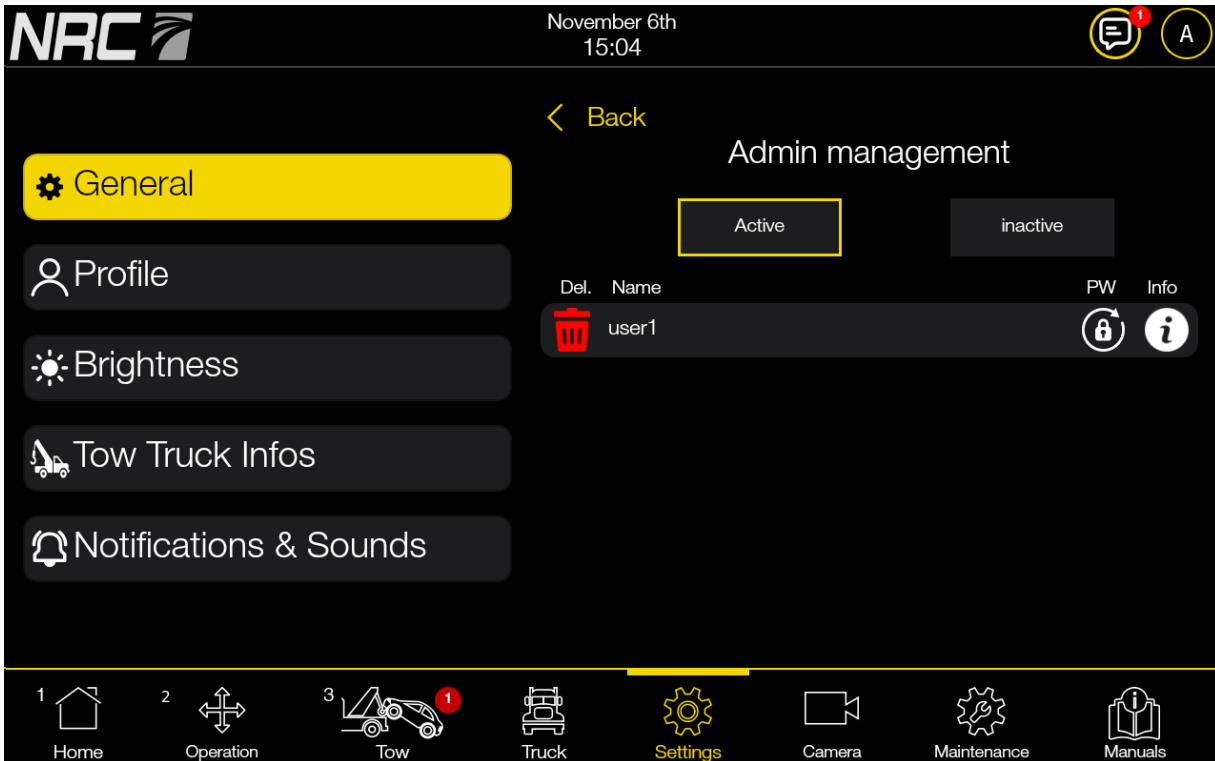





FIGURE 13 – ADMIN SETTINGS (ACTIVE PROFILES)

The Active filter shows active profiles (Figure 13). You can do the following:

- Tap  to make a profile inactive.
- Tap  to change a profile's password.
- Tap  to view profile information.

The Inactive filter shows inactive profiles. A user cannot log into an inactive profile, but its comments and completed tasks are visible in the interface.

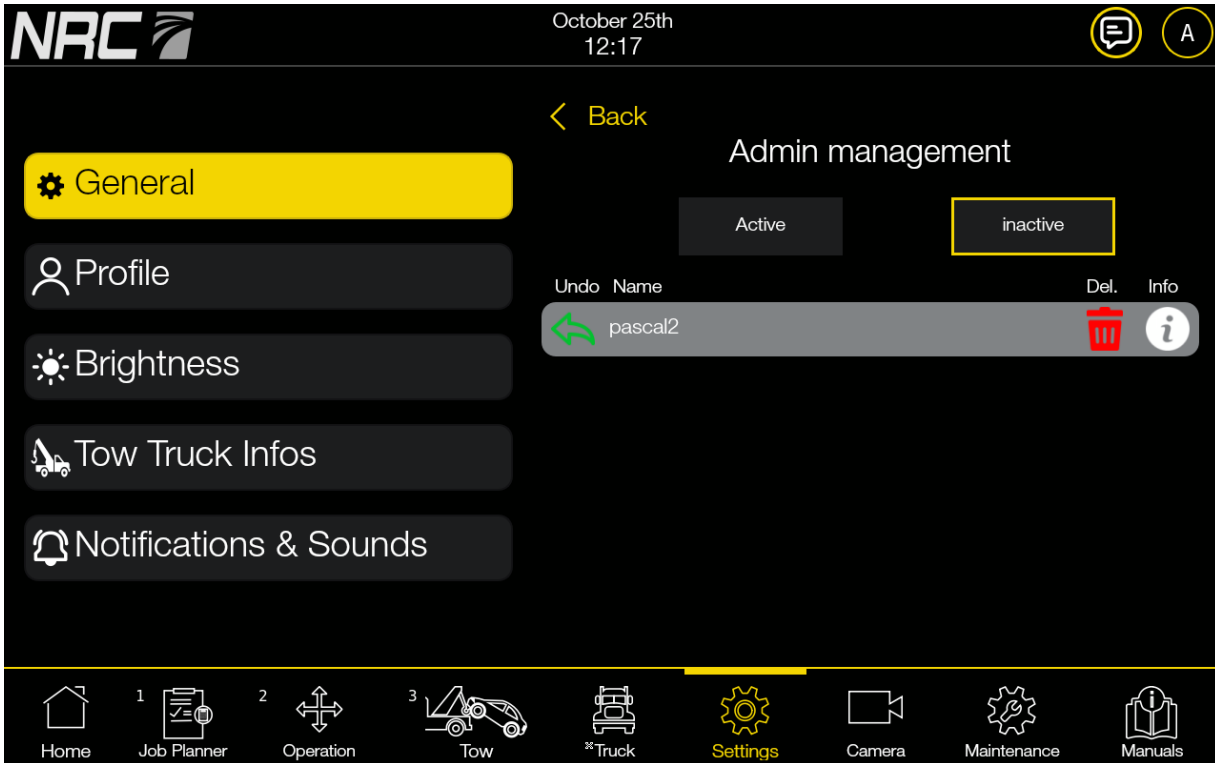





FIGURE 14 – ADMIN SETTINGS (INACTIVE PROFILES)

You can do the following:

- Tap  to reactivate a profile.
- Tap  to permanently delete a profile.
- Tap  to view profile information.

7.2 Profile settings

In the Profile settings (Figure 15), you can view and edit your profile information.

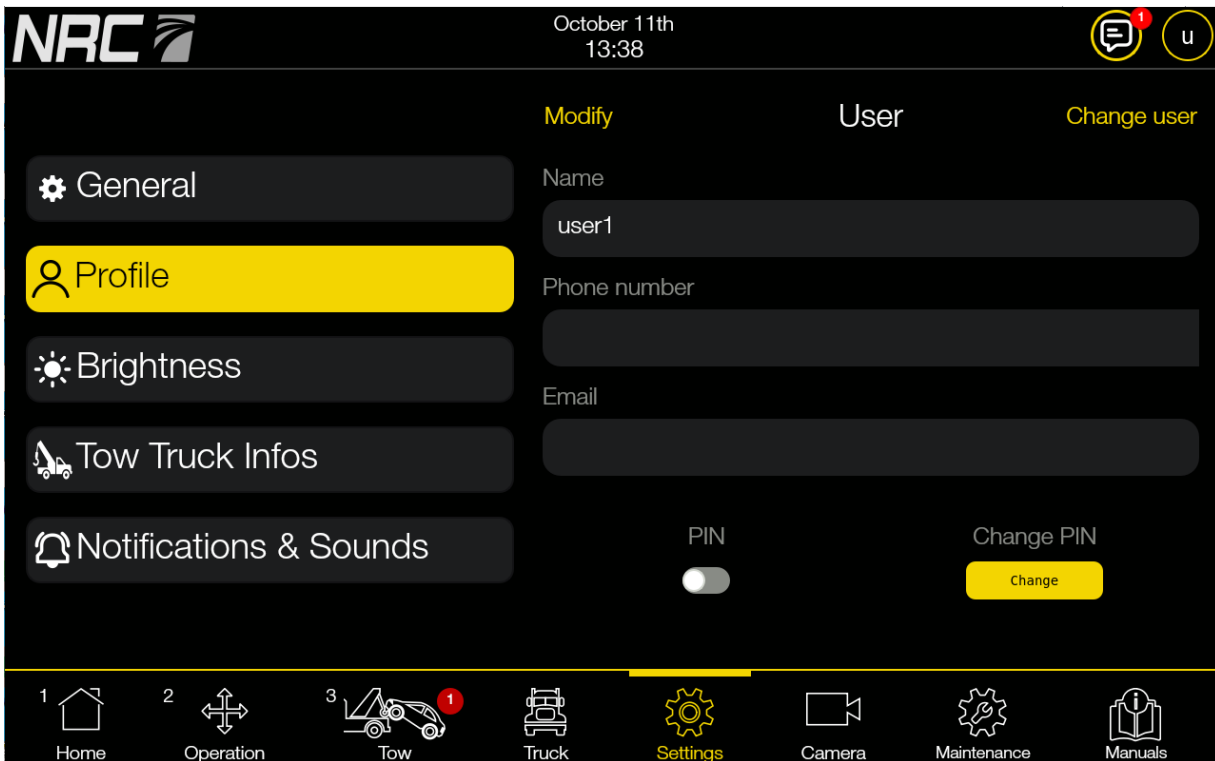


FIGURE 15 – PROFILE SETTINGS SCREEN

NOTE: You can only edit the profile that is currently logged in.

To edit your profile:

1. Choose your profile.
2. Edit the elements (Table 10) you want to change.
3. Tap **Modify** in the upper left corner.

TABLE 10 – PROFILE SETTINGS DESCRIPTIONS

Element	Description
Change user	Logs you out.
Name	Your username.
Phone number	Your phone number.
Email	Your email address.
PIN	Toggle ON to use a PIN. Toggle OFF to not use a PIN.
Change PIN	Tap Change to edit your PIN.

7.3 Brightness settings

In the Brightness settings (Figure 16), you can view and edit the screen brightness for the touchscreen interface.

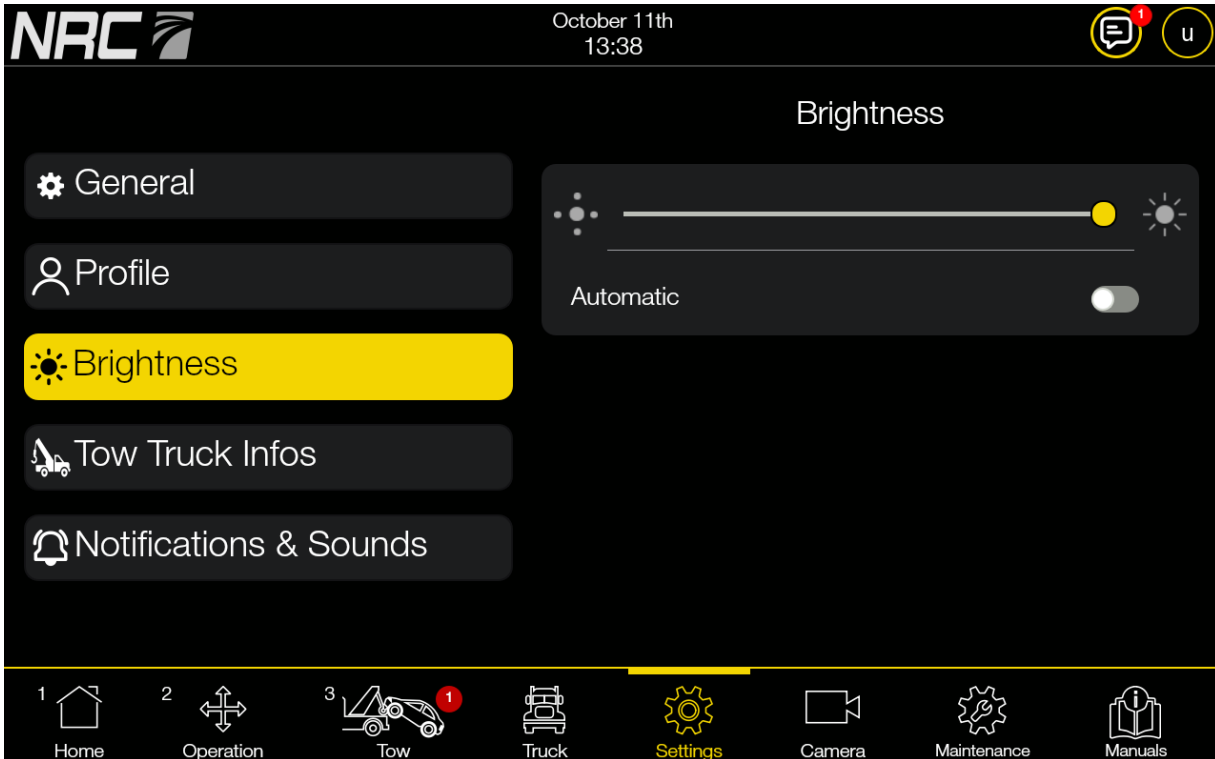

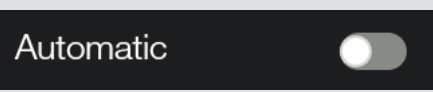


FIGURE 16 – BRIGHTNESS SETTINGS SCREEN

TABLE 11 – BRIGHTNESS SETTINGS DESCRIPTIONS

Element	Description
	Adjusts the screen brightness.
	When toggled ON, the screen will automatically adjust its brightness according to its surroundings. When toggled OFF, the screen brightness must be manually adjusted.

7.4 Tow truck information

In the Tow Truck Infos section, you can view information about the tow truck.

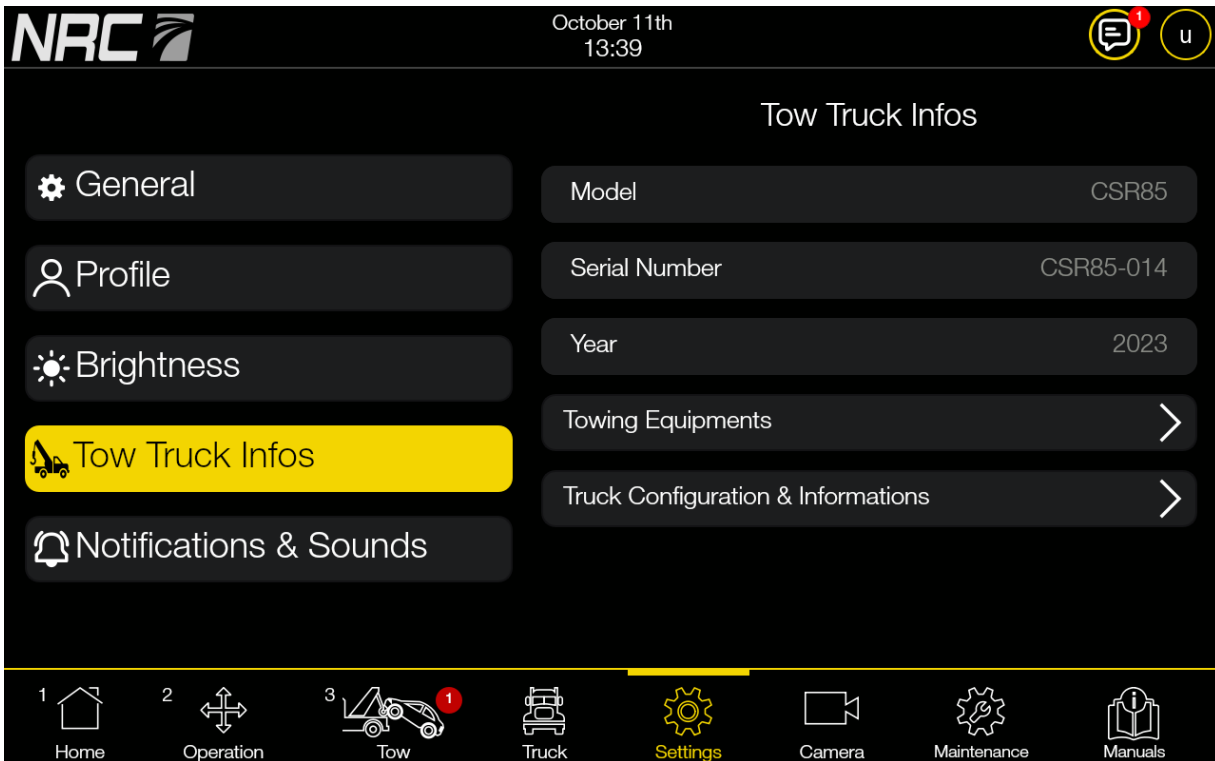


FIGURE 17 – TOW TRUCK INFORMATION SCREEN

TABLE 12 – TOW TRUCK INFORMATION DESCRIPTIONS

Element	Description
Model	CSR's model number.
Serial Number	CSR's serial number.
Year	CSR's model year.
Towing Equipments	See Section 7.4.1.
Truck Configuration & Informations	See Section 7.4.2.

7.4.1 Towing Equipments

To view the towing equipment information, tap **Tow Truck Infos**, then **Towing Equipments**.

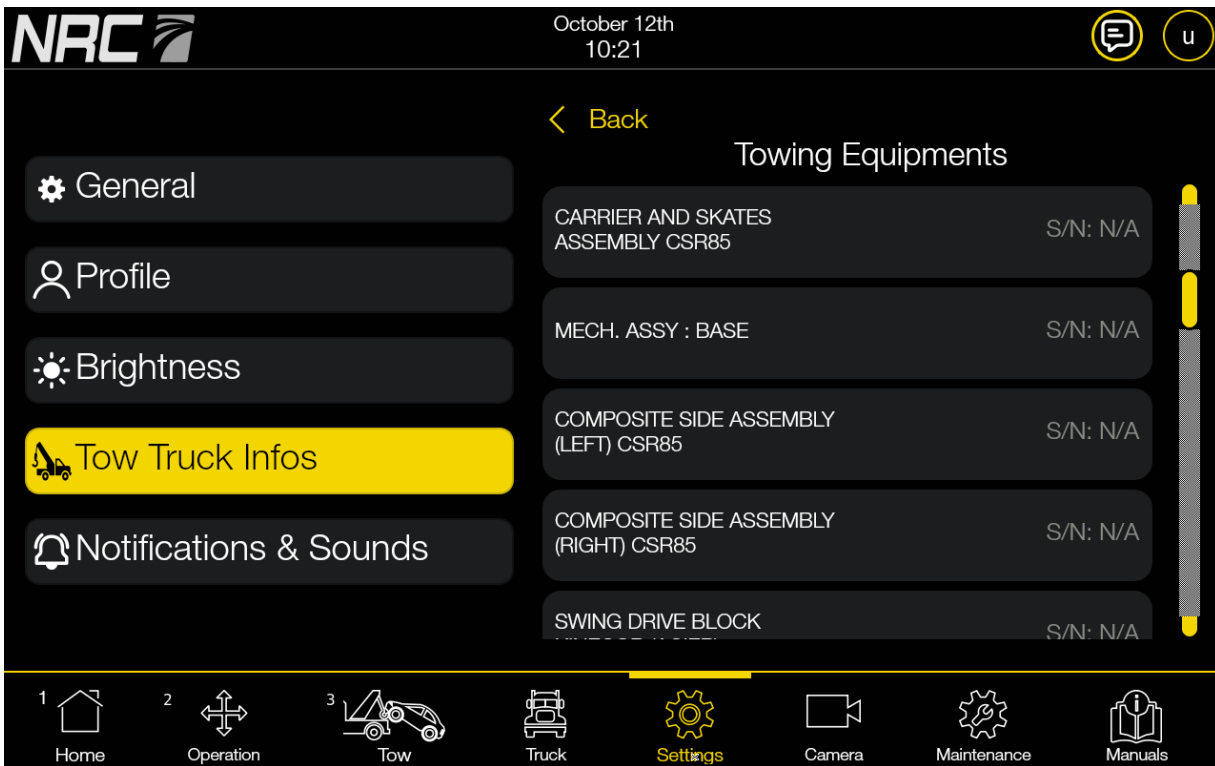


FIGURE 18 – TOWING EQUIPMENTS SCREEN

You can view the following:

- Equipment parts
- Equipment part serial numbers

7.4.2 Truck Configuration & Informations

To view truck configuration information, tap **Tow Truck Infos**, then **Truck Configuration & Informations**.

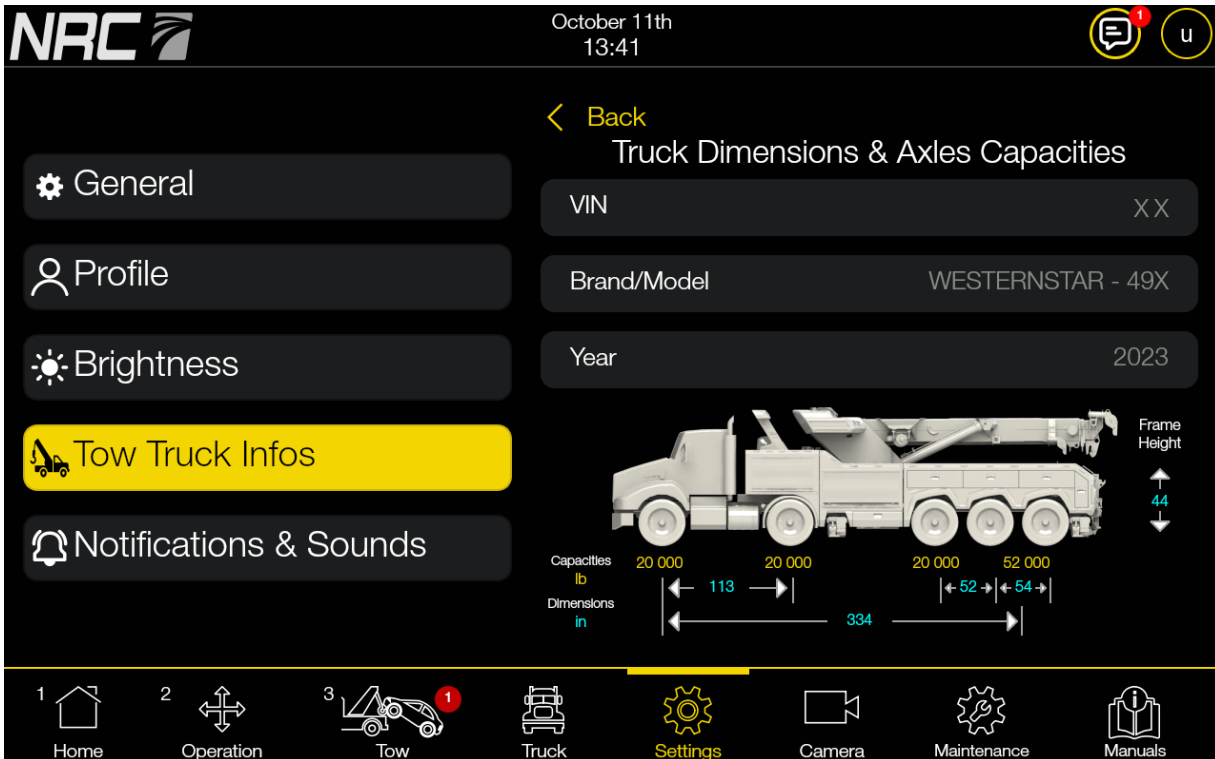


FIGURE 19 – TRUCK CONFIGURATION & INFORMATIONS SCREEN

You can view the following:

- **VIN:** Truck's serial number.
- **Brand/Model:** The brand and model of the truck.
- **Year:** Truck's model year.
- **Frame Height:** The frame height of the truck.
- **Capacities:** The axle capacities.
- **Dimensions:** The truck dimensions.

To change the units for **Frame Height**, **Capacities** or **Dimensions**, see Section 7.1.3.

7.5 Notifications and sound settings

In the Notifications & Sounds settings (Figure 20), you can view and edit the notification and sound settings.

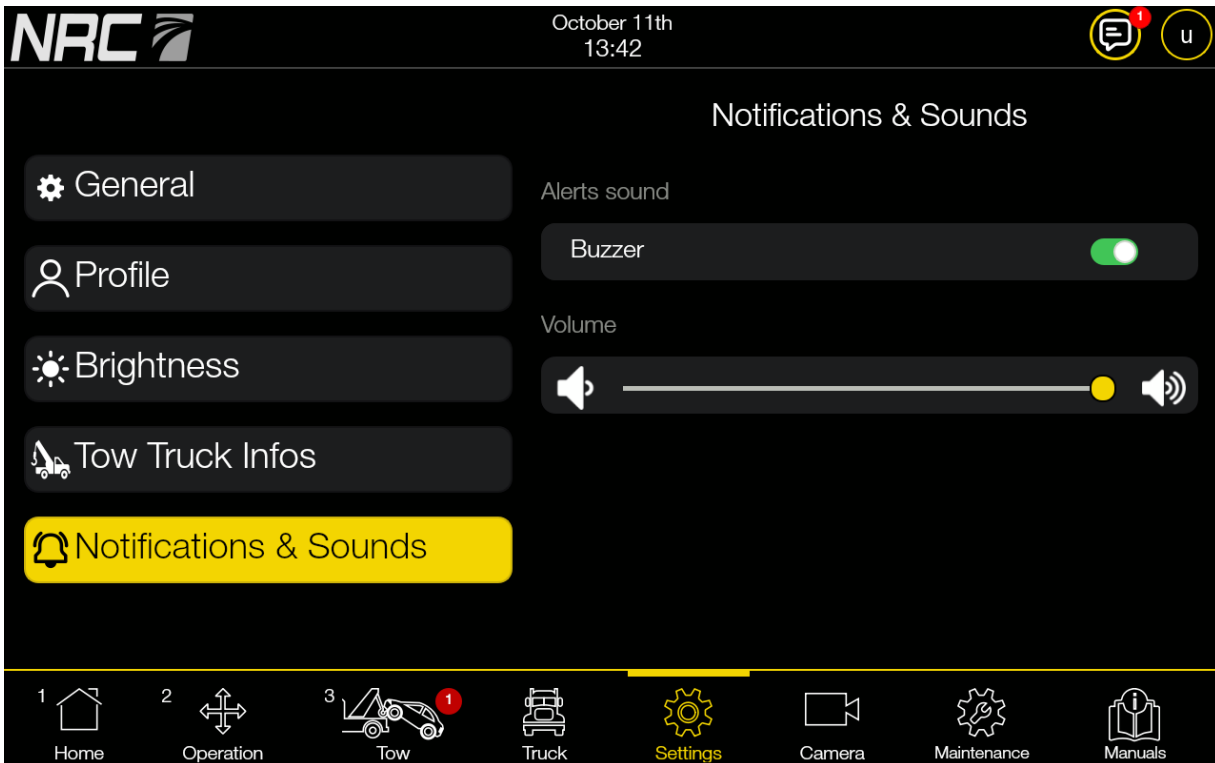


FIGURE 20 – NOTIFICATIONS & SOUNDS SETTINGS SCREEN

TABLE 13 – NOTIFICATIONS & SOUNDS SETTINGS DESCRIPTIONS

Element	Description
Alerts sound	When toggled ON, the interface will beep when you receive a notification. When toggled OFF, the interface will not beep.
Volume	Adjust the volume using the slider.

8 CAMERA SCREEN (OPTIONAL)

The Camera screen of the touchscreen interface (Figure 21) allows you to see through the camera installed on the tow truck.

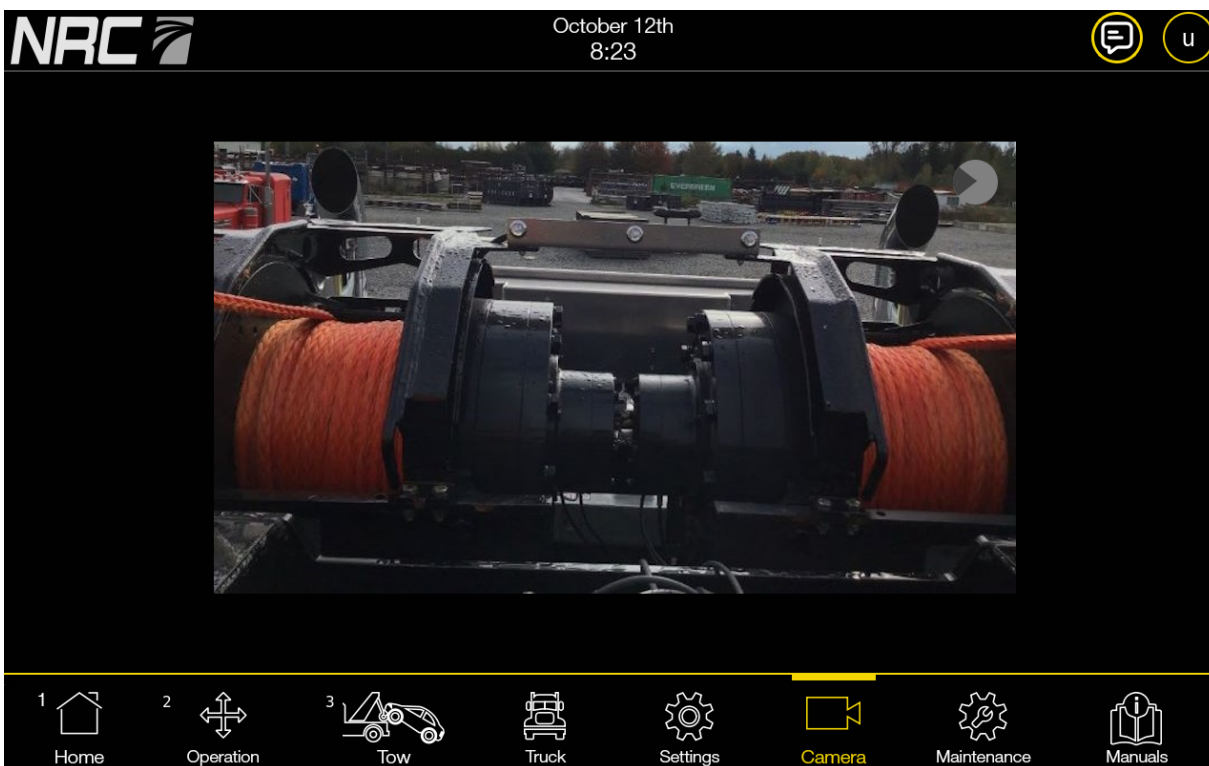


FIGURE 21 – CAMERA SCREEN

Using the camera, you can ensure the winch is correctly wound and the cables are not twisted.

9 MAINTENANCE SCREEN

The Maintenance screen of the touchscreen interface (Figure 22) allows you to track maintenance tasks.

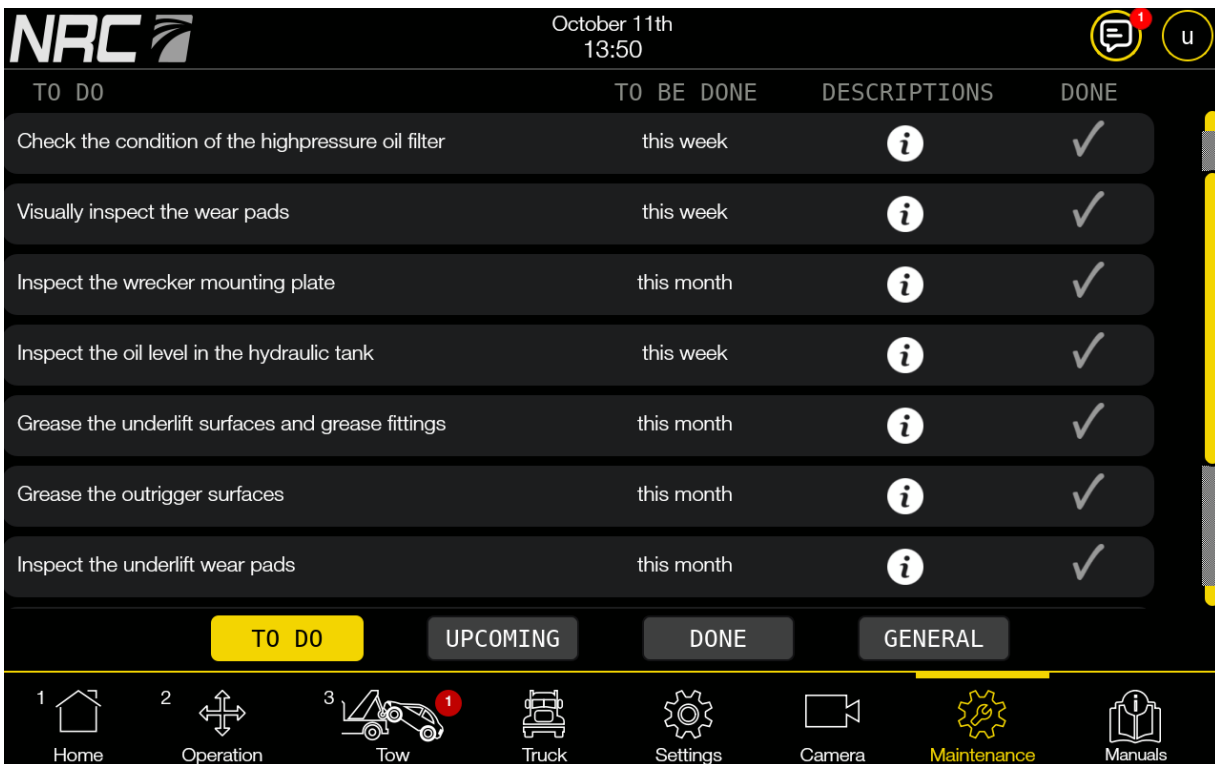



FIGURE 22 – MAINTENANCE SCREEN

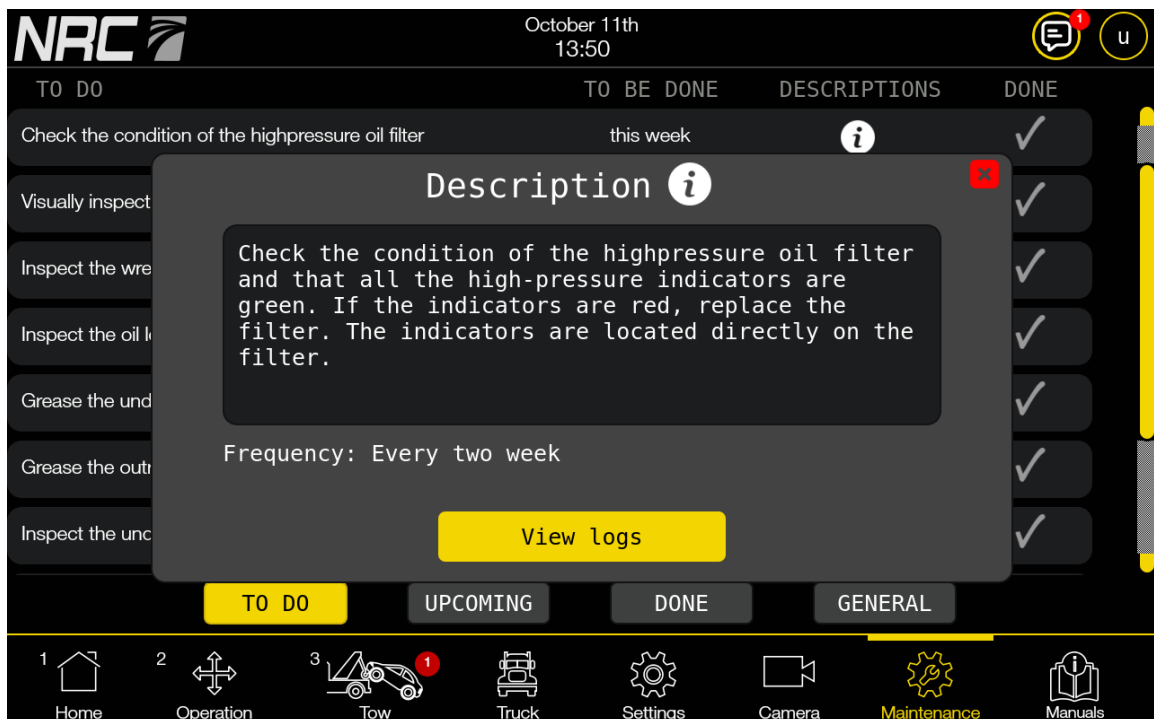
Use the scrollbar on the right to view the whole list. There are four lists:


- **To Do:** Tasks that need to be completed.
- **Upcoming:** Tasks that do not need to be completed yet, but will need to be completed in the near future.
- **Done:** Tasks that are completed and do not need to be redone yet.
- **General:** Tasks that have to be completed every time you use the truck.

9.1 To Do list


In the **To Do** list, you can view tasks that need to be completed. You can also do the following:

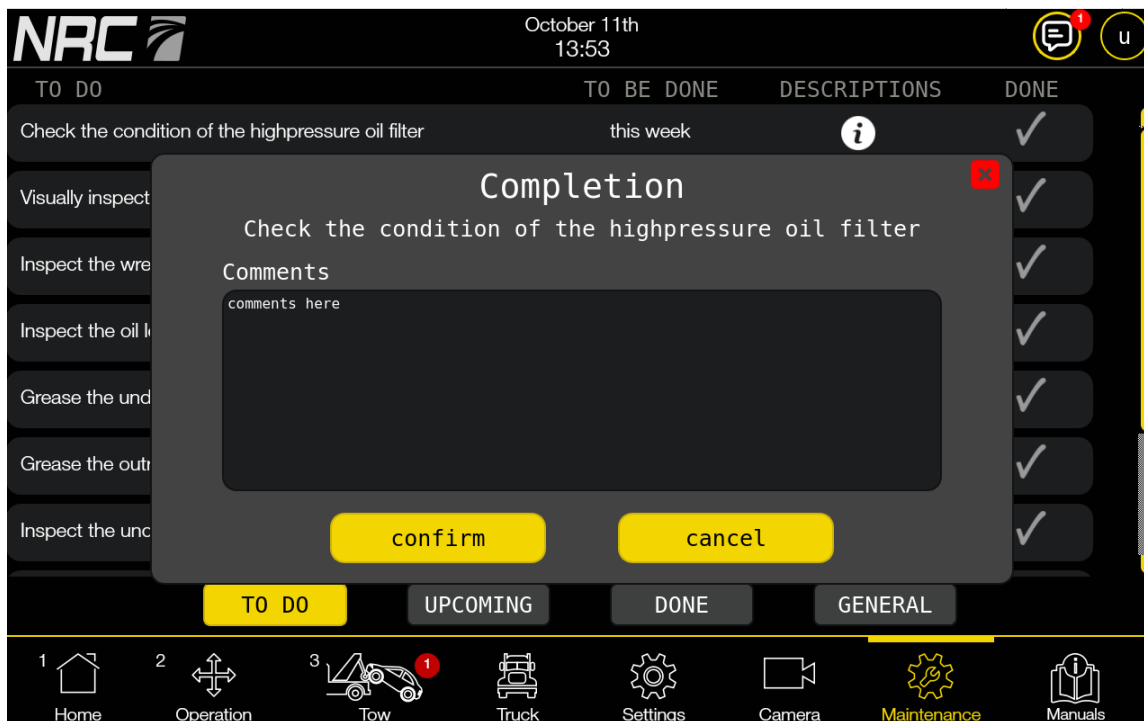
- View tasks to be completed in the **To Do** column.
- View the frequency at which a task should be completed in the **To Be Done** column. These frequencies are set according to NRC's maintenance manual.
- Tap  in the **Descriptions** column to view information about a task.



- In the **Descriptions** window, tap **View logs** to see when the task was completed in the past, the user who completed it and their comments. Tap  to exit.






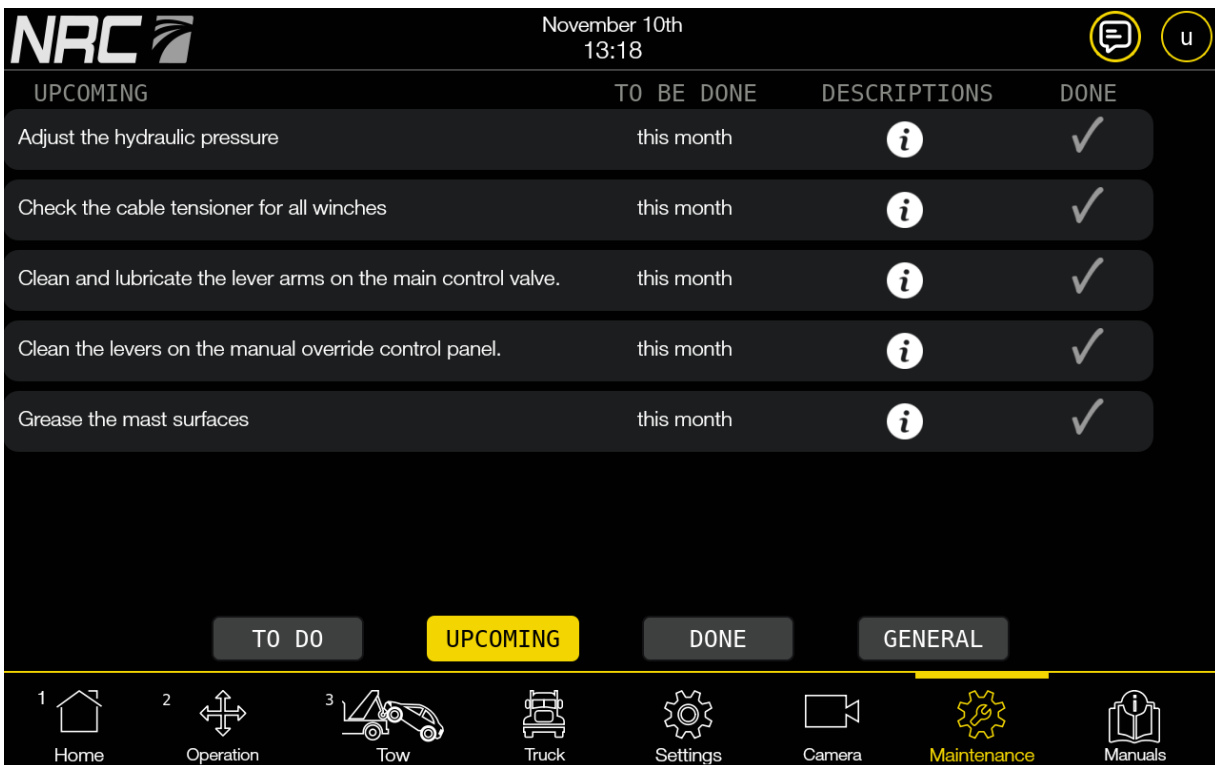
- Tap  in the **Done** column to mark a task as done. In the window that appears, add comments if needed and tap **Confirm** to move the task to the **Done** list.



9.2 Upcoming list



In the **Upcoming** list, you can view tasks that do not need to be completed yet, but will need to be completed in the near future. You can also do the following:

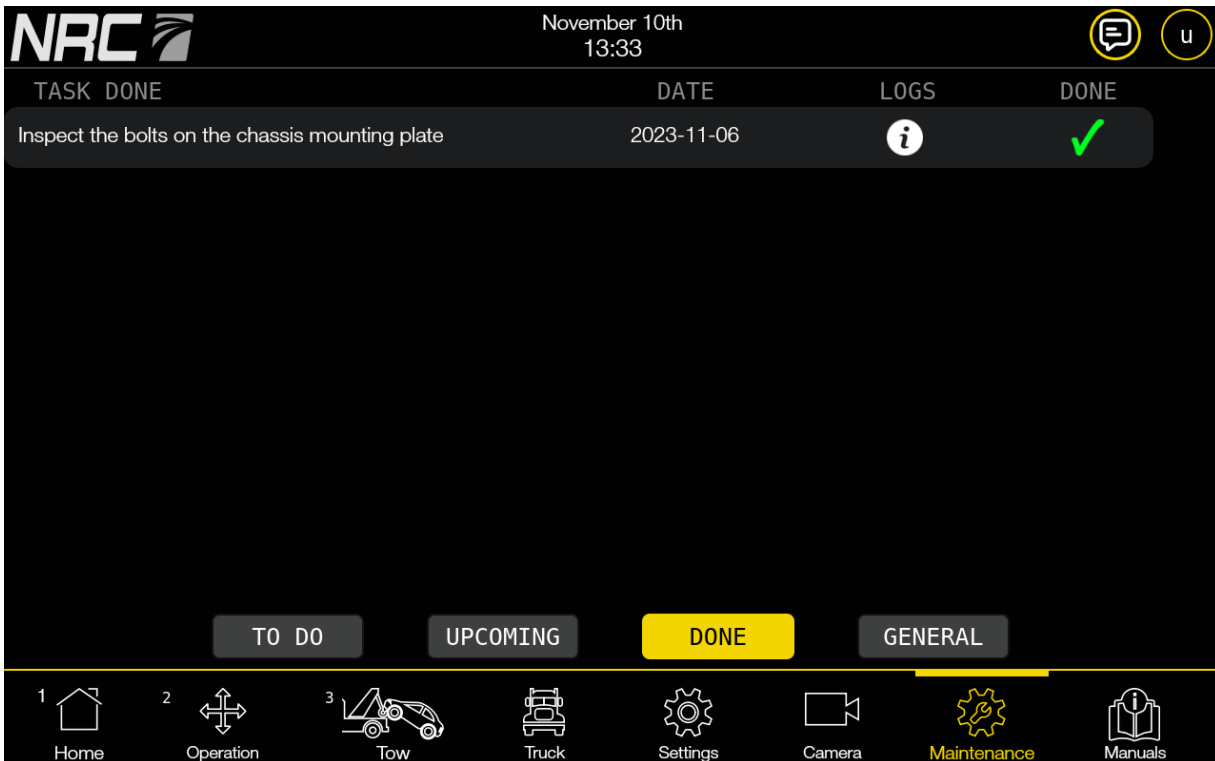
- View upcoming tasks in the **Upcoming** column.
- View the frequency at which a task should be completed in the **To Be Done** column. These frequencies are set according to NRC's maintenance manual.
- Tap  in the **Descriptions** column to view information about a task.
- In the **Descriptions** window, tap **View logs** to see when the task was completed in the past, the user who completed it and their comments. Tap  to exit.
- Tap  in the **Done** column to mark a task as done. In the window that appears, add comments if needed and tap **Confirm** to move the task to the **Done** list.



9.3 Done list




In the **Done** list, you can view tasks that are completed and do not need to be redone yet. You can also do the following:

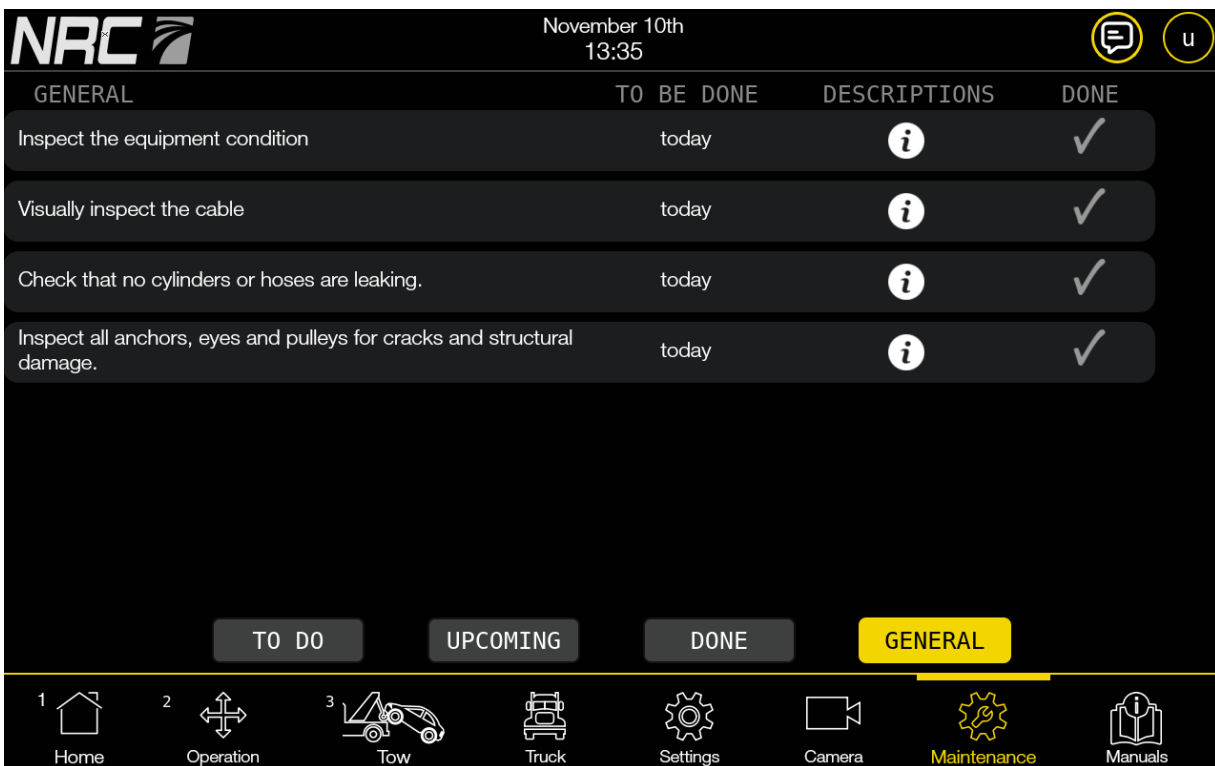
- View completed tasks in the **Task Done** column.
- View the date a task was last completed in the **Date** column.
- Tap  in the **Logs** column to view the log of when a task was previously completed.
- Tap  in the **Done** column to mark a task as not done. In the window that appears, tap **Confirm** to move the task to the **To Do** list. Any existing comments on the task will be preserved.



9.4 General list

In the **General** list, you can view tasks that have to be completed every time you use the truck. You can also do the following:

- View tasks to be completed in the **General** column.
- View the frequency at which a task should be completed in the **To Be Done** column.
- Tap  in the **Descriptions** column to view information about a task.
- In the **Descriptions** window, tap **View logs** to see when the task was completed in the past, the user who completed it and their comments. Tap  to exit.
- Tap  in the **Done** column to mark a task as done. In the window that appears, add comments if needed and tap **Confirm** to move the task to the **Done** list.



10 MANUALS SCREEN

The Manuals screen of the touchscreen interface (Figure 23) allows you to view the relevant equipment manuals.

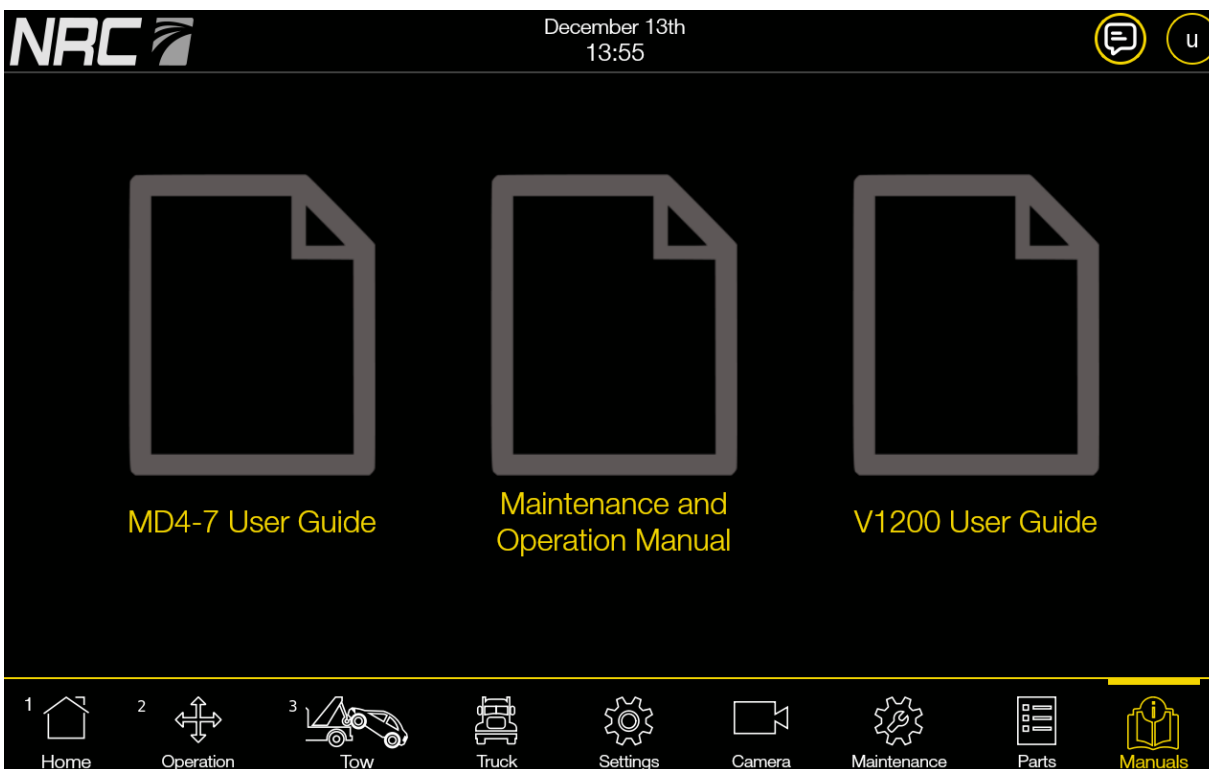
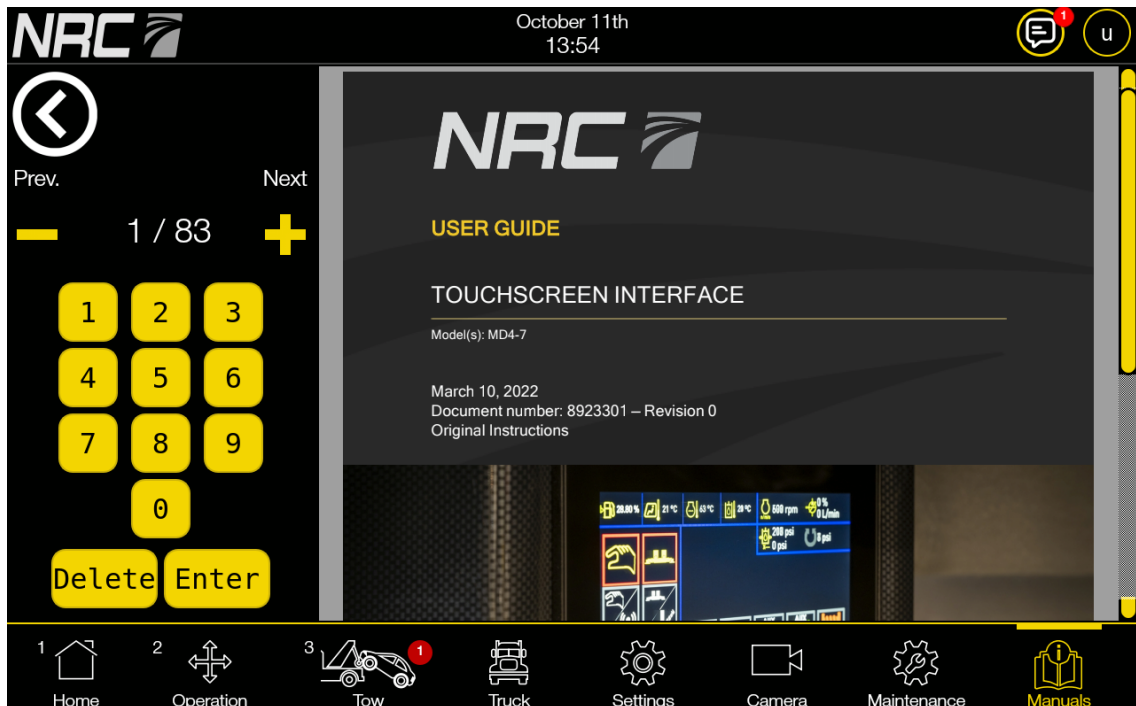




FIGURE 23 – MANUALS SCREEN


To view a manual:

1. Tap the relevant title.



2. To navigate the manual:

- a. Use the scrollbar on the right.
OR
- b. Press **Next**  or **Prev.**  to scroll through the pages.
OR
- c. Use the number pad to enter a page number and tap **Enter**. Tap **Delete** to clear your entry if needed.

To return to the screen in Figure 23, tap  in the upper left corner.



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