



# Assembly Manual

**Fleet-Recorder (5305.70)**

## Introduction

### Foreword

The installation procedures described in this assembly manual should only be undertaken by a Hako service centre or a workshop authorised by Hako. Members of staff with the required level of training and expertise are only guaranteed in the said workshops. This assembly manual may be used only in conjunction with the machine's operating manual.

### Safety instructions

With regard to handling and operation, please observe the general safety regulations of the corresponding vehicle in the relevant operating manual. Prior to installation, place the vehicle on a level surface and hold it with the parking brake. Switch the engine off and pull out the ignition key.

We would expressly advise you that no legal claims may be asserted based on the contents of these instructions. In the case of necessary repair work, please make sure that only original spare parts are used. Only original spare parts guarantee constant and reliable operational readiness of your machine. We reserve the right to make changes in the interests of further technical development.

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This assembly manual applies to all variants of the Citymaster 600 and Citymaster 1600.

# 1 Fleet-Recorder Citymaster 600/1600

## 1.1 Parts list

- 1 Fleet-Recorder
- 2 I-Button-Reader
- 3 User key
- 4 Antenna
- 5 Buzzer
- 6 Holder
- 7 2x flanged button head bolts
- 8 1x O-ring
- 9 1x W77 cable loom
- 10 1x clamp

Parts not displayed:  
 Fuse insert  
 Sticker  
 Sealing tape  
 Cable ties

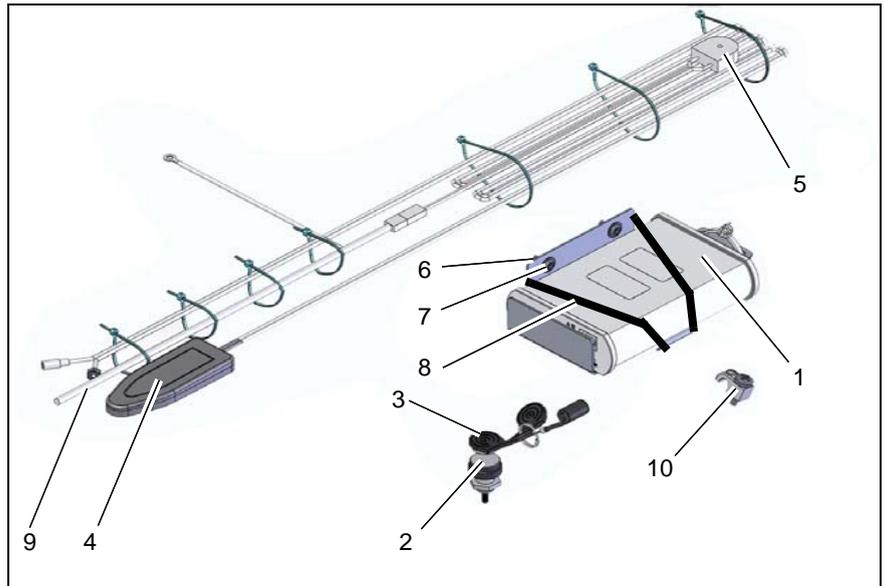


Fig. 1

## Fleet-Recorder Citymaster 600/1600

### 1.2 Installing the Fleet-Recorder Citymaster 600/1600



#### Caution

Prior to installation, place the vehicle on a level surface and hold it with the parking brake. Switch the engine off and pull out the ignition key.



Make all the electrical connections according to the circuit diagram of the respective machine variant.

#### 1.2.1 Pre-assembling the antenna with buzzer

1. Prior to installing the Fleet-Recorder, pre-assemble the antenna (Fig. 2/1) with the P20 buzzer (Fig. 2/2) according to the drawing.
2. Connect the plug of the P20 buzzer to the plug of the W77 cable loom (Fig. 2/3).

#### 1.2.2 Pre-assembling the holder

Glue the sealing tape (Fig. 2/4) onto the holder according to the sketch.

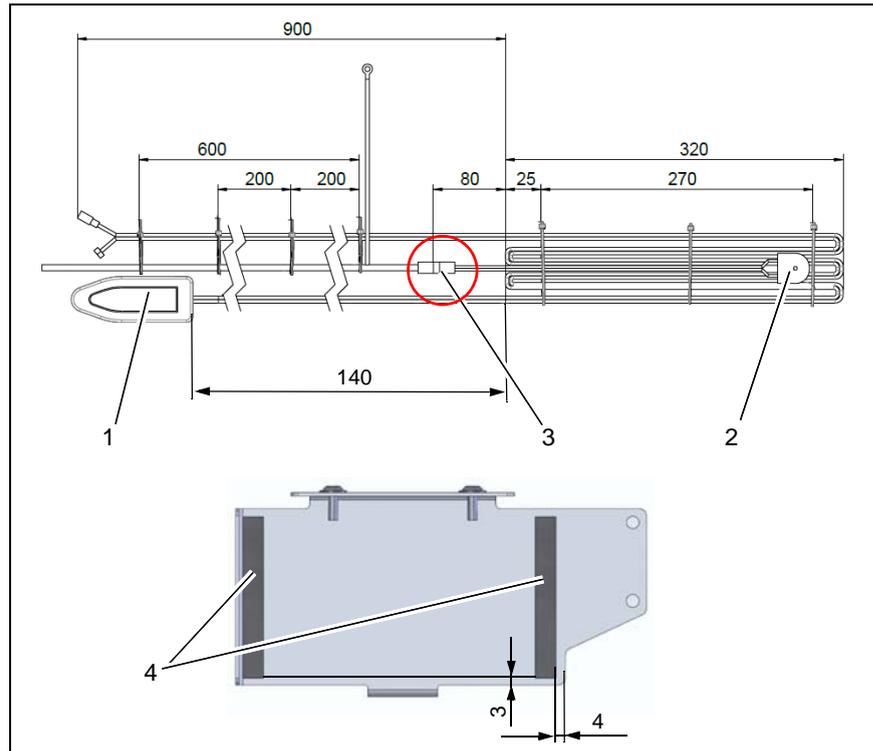


Fig. 2

### 1.2.3 Installing the I-Button-Reader

1. Disassemble the right-hand control panel (Fig. 3/1).
2. Drill a hole measuring 13 mm in diameter into the panel according to the sketch (Fig. 3/2).
3. Install the I-Button-Reader (Fig. 3/3).
4. Position the RFID lock sticker on the control panel (Fig. 3/4).
5. Connect the plug of the I-Button-Reader to the 4-pole plug B20/X1 of the W77 cable loom.



The cable of the I-Button-Reader must be able to move freely in the panel.

#### 6. Citymaster 600 only:

Insert the fuse insert 5A into the fuse holder F22 (Fig. 3/5).

7. Connect the 6-pole plug connector X91 of the W77 cable loom to the plug of the W5 cable loom.
8. Re-install the control panel.

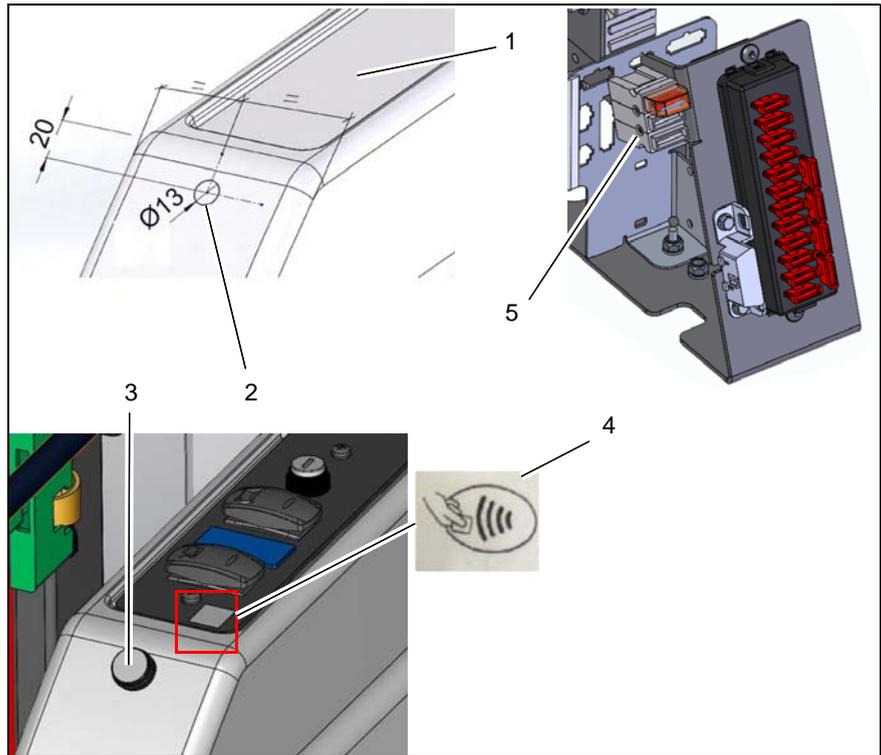


Fig. 3

## Fleet-Recorder Citymaster 600/1600

### 1.2.4 Installing the Fleet-Recorder

1. Disassemble the roof of the Citymaster.
2. Attach the holder for the Fleet-Recorder to the frame of the cab using the flanged button head bolts (Fig. 4/1).
3. Attach the Fleet-Recorder (Fig. 4/2) to the holder using an O-ring (Fig. 4/3).

### 1.2.5 Installing the W77 cable loom

1. Guide the W77 cable loom upwards from the right-hand control panel behind the inner lining.
2. **Loudspeaker available as an option:**  
Guide the W77 cable loom behind the loudspeaker (Fig. 4/4).
2. **Loudspeaker not available:**  
Use the clamp to fix the W77 cable loom into position (Fig. 4/5).

### 3. Connections on the rear of the Fleet-Recorder:

- Connect the antenna cable to the GPS and the GSM connections of the Fleet-Recorder (Fig. 4/6) according to the labelling.
- Insert the 4-pole plug A20/X1 of the W77 cable loom (Fig. 4/7).
- Insert the 12-pole plug A20/X2 of the W77 cable loom (Fig. 4/8).

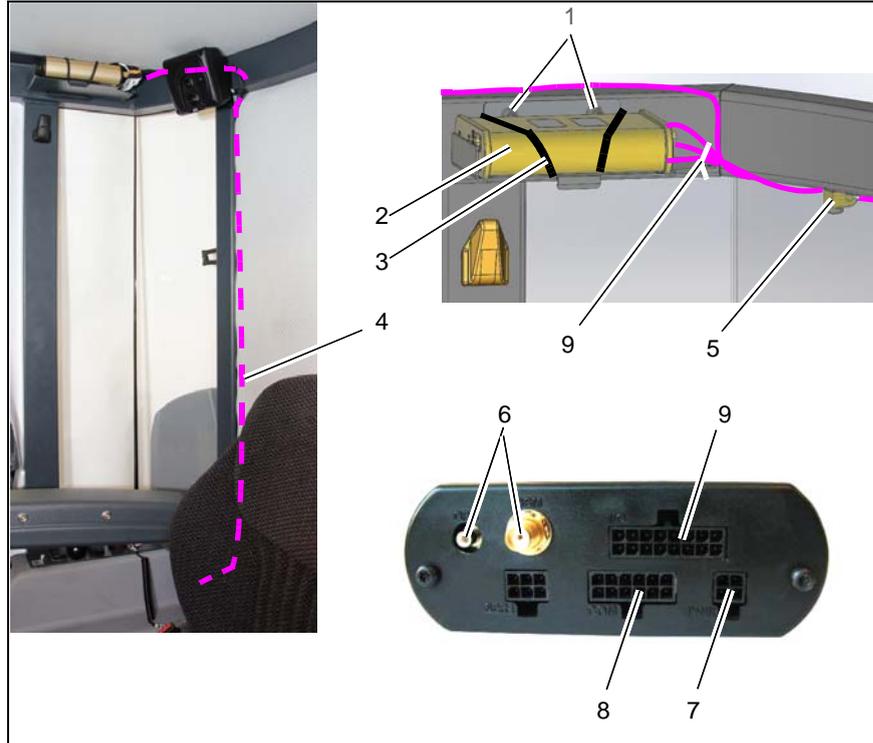


Fig. 4

- Insert the 16-pole plug A20/X3 of the W77 cable loom (Fig. 4/9).

4. Attach the cable to the holder using cable ties (Fig. 4/9).
5. Run the W77 cable loom in the profile of the roof frame (Fig. 5/1), guide it to the front and fix it into position using cable ties (Fig. 5/2).
6. Clean the adhesive surface for the antenna and glue the antenna at the intended position according to the respective machine type (Fig. 5/3).
7. Establish earth connection with plug X43 (Fig. 5/4).
8. Run the buzzer along the cross bar and attach it to the bar using cable ties (Fig. 5/5).



The connection lines of the buzzer are sensitive to tension stress!  
Use cable ties at a distance of > 50 mm to the buzzer.

### 1.3 Putting into service

The machine specific settings for putting the Fleet-Recorder into service are carried out by the technical customer service.

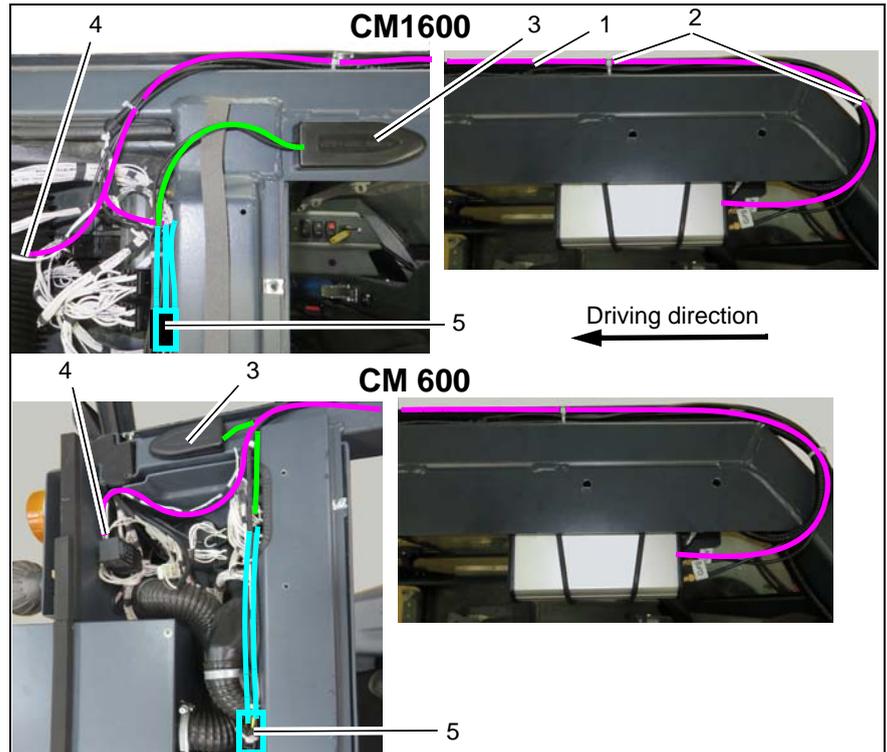
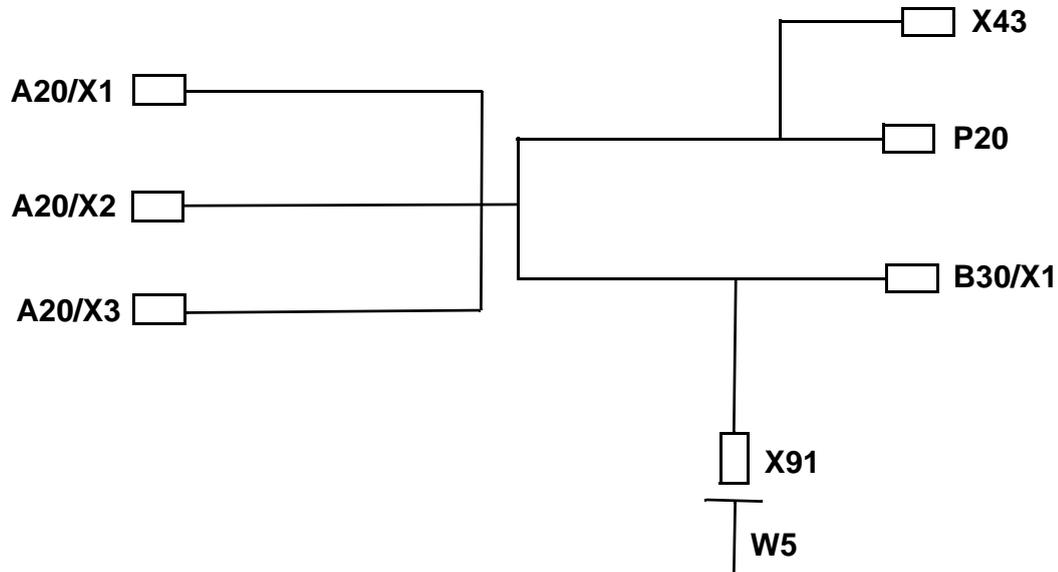


Fig. 5

## Fleet-Recorder Citymaster 600/1600

### 1.4 Schematic diagram of the W77 cable loom (Citymaster 600/1600)





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