## Part 573 Safety Recall Report

Manufacturer Name :	Workhorse Group Inc.
Submission Date :	DEC 14, 2021
<b>NHTSA Recall No. :</b>	21V-731
Manufacturer Recall No. :	21V731

## Manufacturer Information :

Manufacturer Name : Workhorse Group Inc. Address : 100 Commerce Drive Loveland OH 45140

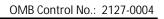
Company phone : (513) 360-4704

## Vehicle Information :

Vehicle 1:	2020-2021 Workhorse C1000M / C1000S / C650
Vehicle Type :	BUSES, MEDIUM & HEAVY VEHICLES
Body Style :	
Power Train :	NR
Descriptive Information :	All delivered vehicles are affected. The total number of vehicles delivered is 41.
	C1000M - 34 of model year 2020/2021 C1000S - 6 of model year 2020/2021 C650 - 1 of model year 2020
Production Dates :	DEC 01, 2019 - JUN 30, 2021
VIN Range 1:	egin : NR End : NR 🗌 Not sequential

## **Description of Noncompliance :**

-	Workhorse has determined that certain vehicles were sold without documented confirmation that they are compliant with all applicable FMVSSs. In some cases, noncompliances have been confirmed. Workhorse is not aware of any crashes or injuries caused by these issues.
	This safety recall concerns non-compliances with FMVSS 101, 104, 108 and 120.
FMVSS 1 :	101 - Control and displays
FMVSS 2 :	104 - Windshield wiping and washing systems
Description of the Safety Risk :	If a vehicle does not meet all applicable FMVSSs, there is an increased risk of crash and/or injury.
Description of the Cause :	NR
Identification of Any Warning that can Occur :	NR
	mation contained in this report was submitted pursuant to 40 CED 8573



41



Number of potentially involved :

Estimated percentage with defect : 100 %

**Population :** 

21V-731

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volved Components :	
Component Name 1:	Headlight Switch
Component Description :	NR
Component Part Number :	W0026979
Component Name 2:	Steering Column
Component Description :	NR
Component Part Number :	W002499
Component Name 3:	Wiper Switch
Component Description :	NR
Component Part Number :	W0026986
Component Name 4:	Wiper Blade (Driver Side)
Component Description :	NR
Component Part Number :	W0026958
Component Name 5 :	Wheel Rim
Component Description :	NR
Component Part Number :	W0023946
pplier Identification :	
Component Manufacturer	
Name : NR	
Address : NR	
NR	
Country: NR	

The information contained in this report was submitted pursuant to 49 CFR §573

## **Chronology** :

August 2021

After leadership changes at Workhorse, the company requested its staff to provide evidence of compliance with all applicable FMVSSs. Workhorse retained an engineering consulting firm, Engineering Answers, LLC, to conduct a visual compliance review of its C1000S (also known as C62) vehicle. The engineering firm identified noncompliances with certain FMVSSs in a report dated August 6, 2021. The report also noted the need to conduct physical testing to confirm compliance with certain standards.

Workhorse leadership learned that Engineering Answers, LLC had provided advice previously (in 2019 and 2020) about certain noncompliances.

Workhorse leadership also sought a visual compliance review by a different engineering consulting firm, Pilot Systems, Inc. Pilot confirmed substantially the same discrepancies identified by Engineering Answers, LLC in a report delivered to Workhorse on August 31, 2021.

September 17, 2021

Workhorse leadership decided to conduct a recall to address the potential and actual noncompliances. The recall decision was based on the engineering firms' confirmation of some noncompliances, as well as upon verification of incompleteness of documentation confirming that the subject vehicles complied with other applicable standards.

## **Description of Remedy :**

Description of Remedy Program :	FMVSS 101 Replace headlamp switch cover with one containing the FMVSS specified headlamp symbol to avoid operator confusion.
	Replace Turn Signal / Dimmer Switch Lever Knob with one containing the FMVSS specified headlamp symbol to avoid operator confusion. Replace hazard switch button with one containing the FMVSS specified hazard symbol to avoid operator confusion.
	Install software update with alert/warning with FMVSS specified icon corrections to avoid operator confusion Replace Wiper / Washer Switch with an illuminated switch to facilitate dusk-to-dawn operator safety.
	FMVSS 104 Increase the length of the driver side wiper blade to 28" to increase the swept area and improve the driver's field of view in inclement weather.
	FMVSS 108 Attach In-Cab Operator Warning Tag to alert operators that the vehicle is not to be operated on public roads open to unrestricted public travel before affixing the reflex reflectors shipped with the vehicle. (Note: The reflex reflectors are not installed during production to allow dealers/up- fitters/customers the opportunity to first paint/wrap the exterior of the vehicle.)
	FMVSS 120 Replace wheel rims not marked in compliance with Federal regulations. While Workhorse is confident in the performance and safety of the rims installed on all vehicles to-date, the company is replacing all unmarked rims to avoid confusion, customer cost or inconvenience.
	There is no reimbursement program as the vehicles included in 21V731 are all still under warranty, and no owner, purchaser, or dealer would have incurred costs for any 21V371 related repairs. If an owner, purchaser, or dealer incurred any costs related to 21V371 repairs outside of the warranty, Company will reimburse those costs following receipt of documentation (e.g. Paid Invoices, Receipts, etc.)
How Remedy Component Differs	All remedy components have been issued a new part number.

from Recalled Component :

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	Effective September 23, 2021, all remedy components have been issued a new part number. All noncompliant parts were removed from production and sequestered to prevent reintroduction into either production or service part usage.
Recall Schedule :	
<b>Recall Schedule :</b> Description of Recall Schedule :	Owners were notified by telephone on September 23-24, 2021, and formal notification will occur after NHTSA approval of the owner letter. To our knowledge, all vehicles have been grounded.
	formal notification will occur after NHTSA approval of the owner letter. To our knowledge, all vehicles have been grounded.

\* NR - Not Reported

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