

# Part 573 Safety Recall Report

# 20V-524

**Manufacturer Name :** Piaggio Group Americas, Inc.**Submission Date :** FEB 11, 2022**NHTSA Recall No. :** 20V-524**Manufacturer Recall No. :** PP2ZZQ1904\_MP3**Manufacturer Information :**

Manufacturer Name : Piaggio Group Americas, Inc.

Address : 257 Park Avenue South  
4th Floor New York NY 10010

Company phone : 949-645-0030

**Population :**

Number of potentially involved : 123

Estimated percentage with defect : 100 %

**Vehicle Information :**

Vehicle 1 : 2019-2020 Piaggio MP3 500

Vehicle Type : MOTORCYCLES

Body Style : OTHER

Power Train : GAS

**Descriptive Information :** We have received warranty claims from our dealer network that the front and in some cases rear brake lever/pedal have extended play after a prolonged period of inactivity. Excessive play on brake levers/pedal can cause reduced braking efficiency as a consequence. The factory conducted testing and found that there was an incorrect galvanization process of the brake pipe terminals. The protective zinc layer used for surface treatment of the brake pipe terminals were found to have an irregular surface, this allows hydrogen to remain inside the surface during the treatment process that releases in the brake fluid causing hydrogen to release inside of the braking system. The vehicle that are not affected have brake lines that had a proper galvanization process. there are 123 affected Piaggio MP3 500 units in the US market.

Production Dates : FEB 07, 2019 - JUL 09, 2020

VIN Range 1 : Begin : ZAPTA10W4K5000270 End : ZAPTA10X5L5000109  Not sequential**Description of Defect :**

**Description of the Defect :** There may be a possible non-conformity of the zinc plating surface treatment of the brake hose terminals which may result in an increase in the brake lever/pedal travel required to decelerate the vehicle. This issue only occurs after prolonged periods with the vehicle not in use.

FMVSS 1 : NR

FMVSS 2 : NR

**Description of the Safety Risk :** An increase in the brake lever/pedal travel required to decelerate the vehicle can cause reduced braking efficiency that could potentially cause an accident

resulting in injury or death.

**Description of the Cause :** The factory conducted testing and found that there was an incorrect galvanization process of the brake pipe terminals. The protective zinc layer used for surface treatment of the brake pipe terminals were found to have an irregular surface, this allows hydrogen to remain inside the surface during the treatment process that releases in the brake fluid causing hydrogen to release inside of the braking system as a bubble. The vehicles that are not affected have brake lines that had a proper galvanization process.

**Identification of Any Warning that can Occur :** Excessive play in the brake levers/pedal after the vehicle has been sitting for an extended period of time.

## Involved Components :

**Component Name 1 :** Brake Pipe LH (rigid brake line)

**Component Description :** Brake Pipe LH (rigid brake line)

**Component Part Number :** 650453

**Component Name 2 :** Brake Pipe RH (rigid brake line)

**Component Description :** Brake Pipe RH (rigid brake line)

**Component Part Number :** 650454

**Component Name 3 :** Brake Pipe System Block

**Component Description :** Brake Pipe System Block

**Component Part Number :** 601781

**Component Name 4 :** Brake Pipe

**Component Description :** Brake Pipe

**Component Part Number :** 1C001100R

**Component Name 5 :** Brake Pipe rear valve/ABS HECU

**Component Description :** Brake Pipe rear valve/ABS HECU

**Component Part Number :** 2B001195R

Component Name 6 : Brake Pipe front valve/ABS HECU

Component Description : Brake Pipe front valve/ABS HECU

Component Part Number : 1C001491R

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Component Name 7 : Brake Pipe (front valve/rear valve)

Component Description : Brake Pipe (front valve/rear valve)

Component Part Number : 650721

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Component Name 8 : Brake Pipe (Pump pedal/rear valve)

Component Description : Brake Pipe (Pump pedal/rear valve)

Component Part Number : 1C004440

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Component Name 9 : Brake Pipe LH

Component Description : Brake Pipe LH

Component Part Number : 601740

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Component Name 10 : Brake Pipe RH

Component Description : Brake Pipe RH

Component Part Number : 601742

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Component Name 11 : Brake Pipe (Pump RH/front valve)

Component Description : Brake Pipe (Pump RH/front valve)

Component Part Number : 650718

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Component Name 12 : Brake Pipe (Pump LH/front valve)

Component Description : Brake Pipe (Pump LH/front valve)

Component Part Number : 650722

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**Supplier Identification :****Component Manufacturer**

Name : JJUAN S.A

Address : Poligono Industrial Camí Ral  
BARCELONA Foreign States 08850

Country : Spain

**Chronology :**

Details about chronology of principal events are listed here below:

01-Jun-2020 - Warranty analysis in early June '20, immediately after the factory re-opening and resuming work post Covid lockdown, shows an increase of brake system defectiveness.

15-Jun-2020 - Piaggio & C. SpA After sales informs Product Quality about n°2 cases relevant to safety (ZAPTA1300000003861, ZAPTA120200005580)

July-Aug-2020 - Test & Definition of a specific purge cycle for MP3 (highly complex braking system)

07-Aug-2020 - P&C starts the internal activities as per official procedures (rev0 of 2019/022/P&C)

25-Aug-2020 - Piaggio Group Americas, Inc. was notified by Piaggio & C. SpA of the recall on August 25, 2020.

From January until now 592 warranty claims were received world wide.

There have been no claims in the US market and no cases of death or injury world wide.

## Description of Remedy :

**Description of Remedy Program :** REASON FOR THIS RECALL Piaggio USA has decided that a defect, which relates to motor vehicle safety, exists in a specific range of Piaggio scooters as noted below • 2019 MP3 500 models • 2020 MP3 500 HPE models In the affected range, Piaggio USA has identified the possibility of a non-conformity in the zinc plating surface treatment on the brake hose terminal fittings. This can cause a chemical reaction with the brake fluid itself and result in excessive travel from the front or rear brake lever and pedal. This situation can cause limited braking and stopping ability and can lead to a loss of control or a crash. According to vehicle registration records; you are the owner of a vehicle that falls within this affected VIN range. WHAT WE WILL DO To address this situation, Piaggio USA will conduct a recall of the aforementioned models within the affected VIN range. Piaggio USA, through the qualified dealer network will perform a complete brake system flush. This repair campaign will eliminate any potential safety risk. The work required by this recall may be completed by your qualified Piaggio/Vespa dealer at no charge to you for the required parts and labor.

**How Remedy Component Differs from Recalled Component :** The new brake line components with a new surface protection with new part numbers.

Brake Pipe LH (rigid brake line) 1C004808  
Brake Pipe RH (rigid brake line) 1C004807  
Brake Pipe System Block 1C005966  
Brake Pipe 1C005965  
Brake Pipe rear valve/ABS HECU 1C005729R  
Brake Pipe front valve/ABS HECU 1C005730R  
Brake Pipe (front valve/rear valve) 1C005446  
Brake Pipe (Pump pedal/rear valve) 1C005541  
Brake Pipe LH 1C005539  
Brake Pipe RH 1C005540  
Brake Pipe (Pump RH/front valve) 1C005538  
Brake Pipe (Pump LH/front valve) 1C005537

**Identify How/When Recall Condition was Corrected in Production :** Internal temporary solution: 100% visual check on the production line of components (VIN ZAPTA10XXL5000137) date 10/29/2019

Internal definite solution: New brake pipes installed on production line from 03/01/2020

## Recall Schedule :

**Description of Recall Schedule :** We begin mailing customer letters to customers on September 24, 2020 and finish before October 23, 2020.

**Planned Dealer Notification Date :** SEP 10, 2020 - SEP 10, 2020

**Planned Owner Notification Date :** SEP 24, 2020 - OCT 23, 2020

\* NR - Not Reported