

Safety Defect and Noncompliance Report Guide for Equipment
PART 573 Defect and Noncompliance Report¹

On April 27, 2009, QingQi Group Motorcycle CO. Ltd decided that a noncompliance with Federal Motor Vehicle Safety Standard No. 122 exists in items of motor vehicle equipment listed below, and is furnishing notification to the National Highway Traffic Safety Administration in accordance with 49 CFR Part 573 Defect and Noncompliance Reports.

Date this report was prepared: Original report filed 05/18/2009; New report filed 07/18/2012

Furnish the manufacturer's identification code for this recall (if applicable): DOT Recall Number 09V-385

1. Identify the full corporate name of the fabricating manufacturer/brand name/trademark owner of the recalled item of equipment. If the recalled item of equipment is imported, provide the name and mailing address of the designated agent as prescribed by 49 U.S.C. §30164.

Manufacturer: QingQi Group Motorcycle Co. Ltd.
Importer and distributor/ brand name owner ZAP, 501 4th Street, Santa Rosa, CA 95401

Identify the corporate official, by name and title, whom the agency should contact with respect to this recall.

Chuck Schillings, COO
Michael Ringstad, Controller

Telephone Number: (707) 525-8658 Fax No.: (707) 525-5692

Name and Title of Person who prepared this report.

Michael M. Ringstad, Controller

Signed: _____

¹ Each manufacturer must furnish a report, to the Associate Administrator for Enforcement, for each defect or noncompliance condition which relates to motor vehicle safety. This guide was developed from 49 CFR Part 573, "Defect and Noncompliance Reports" and also outlines information currently requested. Any questions, please consult the complete Part 573 or contact Mr. George Person at (202) 366-5210, by FAX at (202) 366-7882, or E-Mail to RMD.ODI@dot.gov.

I. Identify the Recalled Items of Equipment

2. Identify the Items of Equipment Involved in this Recall, *for each make and model or applicable item of equipment product line (provide illustrations or photographs as necessary to describe the item of equipment), provide:*

Generic name of the item: 2008 Xebra All Electric Motorcycle

Make: ZAP

Model: 2008 Xebra All Electric Motorcycle

Part Number: Various

Size: Various

Function: Motorcycle Brake Systems – Standard requires vehicle Master Cylinder contain a separate brake fluid reservoir for each brake circuit, each reservoir filler opening must also have its own cover, seal and cover retention device

Other information which characterizes/distinguishes the items of equipment to be recalled:

Production Dates 01/01/2008 to 12/31/2008

Vin Range Beginning LAEMA246X8G200059 to LAEMA246X8G2000403

See attached list 337 VEHICLES SUBJECT TO RECALL

Vehicle type – MC

Body Style – Sedan

All Steel Body

ZAP has developed a “Kit” to remedy the dual reservoir requirements and the required covers, seals and cover retention devices. These parts are included in the remedy for DOT recall # 09V-177.

See Exhibit A, list of parts for the developed “Kit”.

Make: ZAP

Model: 2008 Xebra All Electric Motorcycle

Part Number: Various

Size: Various

Function: Motorcycle Brake Systems – Standard requires vehicle Master Cylinder contain a separate brake fluid reservoir for each brake circuit, each reservoir filler opening must also have its own cover, seal and cover retention device

Other information which characterizes/distinguishes the items of equipment to be recalled:

Production Dates 01/01/2008 to 12/31/2008

Vin Range Beginning LAEMB246X8G200043 to LAEMB246X8G2000535

See attached list 354 VEHICLES SUBJECT TO RECALL

Vehicle type – MC

Body Style - Truck
All Steel Body /

ZAP has developed a “Kit” to remedy the dual reservoir requirements and the required covers, seals and cover retention devices. These parts are included in the remedy for DOT recall # 09V-177.

See Exhibit A, list of parts for the developed “Kit”.

Identify the approximate percentage of the production of all the recalled models manufactured by your company between the inclusive dates of manufacture provided above, that the recalled model population represents. For example, if the recall involved Equipment equipped with certain items of equipment from January 1, 1996, through April 1, 1997, then what was the percentage of the recalled Equipment of all Equipment manufactured during that time period.

100%

II. Identifying the Recall Population

3. Furnish the total number of items of equipment recalled potentially containing the defect or noncompliance.

ZAP has identified 691 vehicles subject to recall, more specifically as follows:

total vehicles imported	691
sold in foreign countries	(2)
in inventory	(53)
sold – still in inventory	(9)
vehicles in public arena subject to recall	627

Number of Items: 691

Model Year Potentially Involved: 2008

Total Number Potentially Affected by the Recall: 691

4. Furnish the approximate percentage of the total number of items of equipment estimated to actually contain the defect or noncompliance: 100%

Identify and describe how the recall population was determined--in particular how the recalled models were selected and the basis for the beginning and final dates of manufacture of the recalled items of equipment:

Per NHTSA Notification, the manufacturer changed the design from fiberglass body to all steel body increasing the weight. These steel vehicles were manufactured in 2008 only.

III. Describe the Defect or Noncompliance

5. Describe the defect or noncompliance. The description should address the nature and physical location of the defect or noncompliance. Illustrations should be provided as appropriate.

Function: Motorcycle Brake Systems – Standard requires vehicle Master Cylinder contain a separate brake fluid reservoir for each brake circuit, each reservoir filler opening must also have its own cover, seal and cover retention device

See Exhibit A, list of parts for the developed “Kit”.

Describe the cause(s) of the defect or noncompliance condition.

Motorcycle Brake Systems – Standard requires vehicle Master Cylinder contain a separate brake fluid reservoir for each brake circuit, each reservoir filler opening must also have its own cover, seal and cover retention device

Describe the consequence(s) of the defect or noncompliance condition.

A single reservoir can not allow independent braking on other wheels if single reservoir fails. A dual system will allow braking if one reservoir fails.

Identify any warning which can (a) precede or (b) occur.

None.

If the defect or noncompliance is in a component or assembly purchased from a supplier, identify the supplier by corporate name and address.

Unknown.

Identify the name and title of the chief executive officer or knowledgeable representative of the supplier:

Unknown.

IV. Provide the Chronology in Determining the Defect/Noncompliance

If the recall is for a defect, complete item 6, otherwise item 7.

6. With respect to a defect, furnish a chronological summary (including dates) of all the principle events that were the basis for the determination of the defect. The summary should include, but not be limited to, the number of reports, accidents, injuries, fatalities, and warranty claims.

NHTSA self – generated a report from an outside laboratory. We were notified on or about 4/09/2009 that a state of noncompliance may exist. No accidents or incidents have been reported to us.

7. With respect to a noncompliance, identify and provide the test results or other data (in chronological order and including dates) on which the noncompliance was determined.

No test results are available for the non-compliance of not having a duel reservoir system on the master cylinder.

V. Identify the Remedy

8. Furnish a description of the manufacturer's remedy for the defect or noncompliance. Clearly describe the differences between the recall condition and the remedy.

ZAP has developed a remedy for the noncompliance. Duel reservoirs on the master cylinder, separate covers, seals and cover retention devices need to be replaced and installed to meet the required standards. See Exhibit A, brake recall fluid reservoir installation procedure.

Clearly describe the distinguishing characteristics of the remedy component/assembly versus the recalled component/assembly.

The remedy “kit” has many components. See Exhibit A, brake recall fluid reservoir installation procedure. This file contains a list of all parts that are to be installed and the installation procedure on additional pages.

Identify and describe how and when the recall condition was corrected in production. If the production remedy was identical to the recall remedy in the field, so state. If the product was discontinued, so state.

The product was discontinued in 2008.

VI. Identify the Recall Schedule

Furnish a schedule or agenda (with specific dates) for notification to other manufacturers, dealers/retailers, and purchasers. Please, identify any foreseeable problems with implementing the recall.

On 5/15/2013 ZAP delivered a vehicle for retesting to Karco. ZAP's technician who accompanied the vehicle will stay until the first test is successfully completed. At this juncture, ZAP does not foresee any problems with obtaining certification and subsequently implementing the recall.

On June 28th, Karco advised us that the 2nd test, the burnishing test failed. After consultation, we discovered that the petal adjustment we made to pass the first test, was putting drag on the brakes, therefore limiting the range the vehicle could get on a daily basis. Our technician, will be dispatched back to Karco to replace the brake pads and the petal adjustment, once we have obtained the test results from Karco. As of today, we have not received that report.

Once ZAP has obtained the certification, ZAP will send notices to all purchasers of the MY 2008 ZAP Xebra sedan. Upon receiving responses from purchasers, ZAP will either send each customer an installation kit or have the customer send the vehicle back to ZAP in order that ZAP may complete the installation.

VII. Furnish Recall Communications

9. Furnish a final copy of all notices, bulletins, and other communications that relate directly to the defect or noncompliance and which are sent to more than one manufacturer, distributor, or purchaser. This includes all communications (including both original and follow-up) concerning this recall from the time your company determines the defect or noncompliance condition on, not just the initial notification. *A DRAFT copy of the notification documents should be submitted to this office by Fax (202-366-7882) or by E-Mail (RMD.ODI@dot.gov) for review prior to mailing.*

Note: These documents are to be submitted separately from those provided in accordance with Part 579.5 requirements.

See attached Exhibit A.

Exhibit A

ZAP QUARTERLY REPORT 2012

NHTSA SERVICE BULLETIN: 09V385000

XEBRA RECALL FLUID RESERVOIR

RESPONSE: OA-122-090408, NVS-221SSe

BACKGROUND:

2008 Zap Xebra Service Brakes, Hydraulic Recall 09V385000

NHTSA:

ACTION NUMBER: N/A

SERVICE BULLETIN NUMBER: 09V385000

REPORT DATE: July 18, 2012

COMPONENT: Service Brakes, Hydraulic

POTENTIAL UNITS AFFECTED: 691

MANUFACTURER: Qingqi Group Motorcycle Co., Ltd

SUMMARY: Qingqi is recalling 691 my 2008 ZAP Xebra motorcycles manufactured between January and December 2008. These motorcycles do not conform to the requirements of federal motor vehicle safety standard no. 122, "motorcycle brake systems. " they do not have a separate brake fluid reservoir for the front and rear brakes.

CONSEQUENCES: Without a separate reservoir for each brake, having its own cover, seal, and cover retention device, fluid for one brake circuit may move to the other. If this happens, both reservoirs could loose fluid as a result of a fluid leak in one brake circuit and compromise the stopping ability of both brakes.

REMEDY: Zap will notify owners and repair or replace the master cylinder free of charge. The safety recall began on January 29, 2010. Owners may contact ZAP toll-free at 1-800-251-4555.

LINK: http://www.automd.com/recall/campaign_c82529/

RESPONSE:

ACTION: ZAP has identified the master cylinder reservoir and made updates to comply with 49 CFR 571.116. Stating that a dual master cylinder in the recall kit be installed with a brake fluid warning labels and verification of the master cylinder using isolated brake fluid per brake circuit ensuring that if a leak is incurred the stopping ability of both brakes are not compromised.

1.) Subassemblies

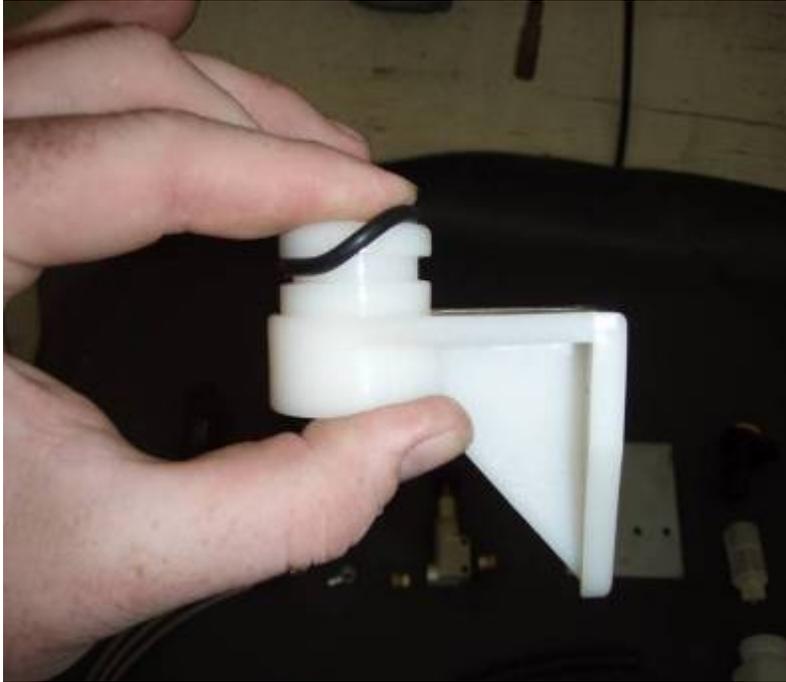
A.) Reservoirs

Start by sanding down the flash on the reservoir mounting brackets inside the o-ring slot using 400 grit sand paper; this helps ensures a proper seal. Blow out any debris in the reservoirs and o-ring slot to prevent contamination of the brake system.

Figure 2. Reservoir



Figure 3. O-rings



B.)Install O-rings

C.)Slide clamp onto reservoir and slide over O-ring seal, tighten the clamp so the O-ring is in between the two straps.

Figure 4. Clamp



D.) inset the micro screens, push down until it is flush with the top of the reservoir neck.

Figure 5. Micro Screen



E.) Cut the length of hose in half with a hose cutter or razor.

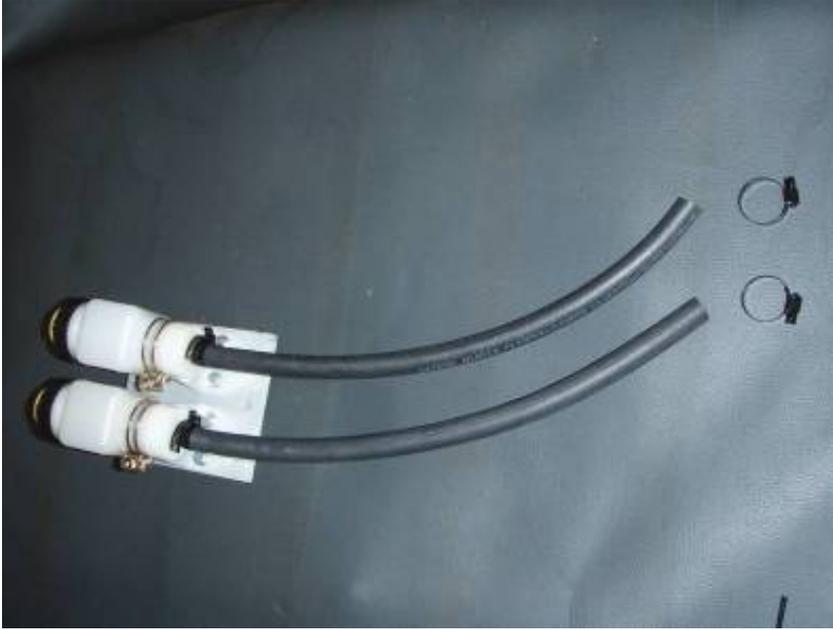
F.) Install hoses onto the barb on the bottom of the brake reservoir mounting bracket and clamp. Let the natural curve of the hose go to the right when the reservoir is facing you. Put the float tops on to prevent anything from getting in the reservoirs.

Figure 6. Hoses



G.) Bolt reservoirs to mounting plate with the M6 bolts provided and this assembly is complete.

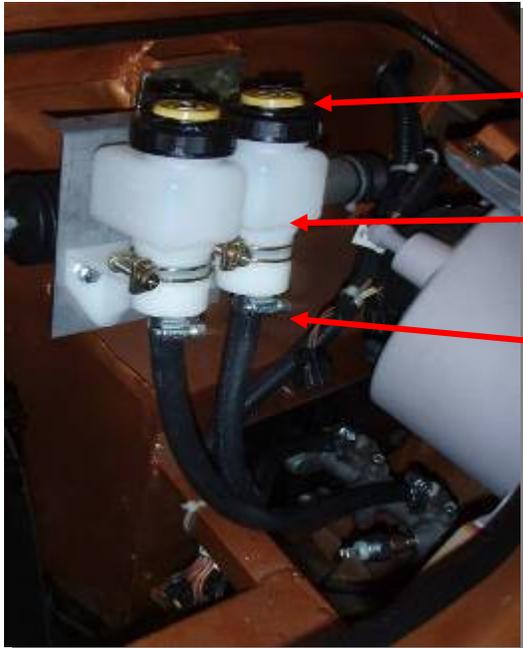
Figure 7. Bolt Reservoirs



2.) Replacing the Brake Reservoir

Remove the old brake reservoir and the new ones as shown. You can recycle two of the bolts removed to mount the new reservoir mount plate. Remove as much of the fluid as you can before starting and use a drip pan to catch any fluid that may drip.

Figure 8. Brake Reservoir



Sensor Caps

Individual Reservoirs

Hose Clamp

Place Warning Labels as noted on each Brake Reservoir.

Figure 9. Warning Labeling



Warning Label

Note: Warning Labels should be adhered and visible as seen. **Use Only DOT 4 Brake Fluid As Specified In 49 CFR 571.116. Clean Filler Cap Before Removing.**

BILL OF MATERIAL:**PARTS KIT FOR RECALL 09V-385**

12/1/2011		
QTY	PARTS	DESCRIPTION
2	260-3394	FILLER, 4.0 OZ, M/C, REMOTE TYPE
2	210-3397	O-RING, MOUNTING BRACKET, 1.12, RMTE M/C RESERVOIR, 210A/B/K
2	260-3393	CLAMP, RESERVOIR, M/C, WILWOOD REMOTE TYPE
2	250-3381	BRACKET, MOUNTING,RESERVOIR, M/C, WILWOOD, REMOTE TYPE
1	220-3357	HOSE, M/C, REMOTE TYPE, 3/8 ID X 5/8 OD X 30.0
2	260-10342	CLAMP, HOSE, 1.12 DIA X 5/16 SS BAND BLK
2	100-12111	WARNING LABELS FOR RESERVOIRS 31MM X 44MM
2		CONNECTOR, TO FLOAT CAPS
1		RESERVOIR MOUNTING BRACKET
2		BRAKE SENSOR MODULE
1		BRAKE FLUID DOT 4 14OZ.