

Safety Defect and Noncompliance Guide for Vehicles
Part 573 Defect and Noncompliance Report

On 9/13/00, SMC decided that an ABS wiring problem may exist in the motor vehicles 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: 03-29-01

OIV-130.001 (01)

Furnish the manufacturer's identification for this recall: 00E-055

1. Identify the full corporate name of the fabricating manufacturer of the vehicle being recalled.

Safari Motor Coaches, Inc

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

<u>Roger Ferguson</u>	<u>Director of Service and Warranty</u>
Name	Title

<u>1-800-344-6332</u>	<u>1-541-995-1176</u>
Telephone	Fax

Name of person who prepared this report.

<u>Jack Fagan</u>	<u>Warranty Department Manager</u>
Name	Title

Signed: _____

Each manufacturer must furnish a report to the Associate Administrator for Safety Assurance 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 Part 573 of contact Mr. Jon White at (202) 366-5227 or by FAX at (202) 366-7882.

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DEFECTS INVESTIGATION

I Identify the Vehicle Models Involved in the Recall

2. Identify the vehicles involved in the recall, *for each make and model or applicable vehicle line.*

Provide:

Make: Safari Model Year Involved: 1999-2000 Model: Continental

Production dates: Beginning: 05/98 Ending: 04/00

VIN range: Beginning: 4SLD3HR38W1111782 Ending: 4SLD3HR21X1114590

Vehicle type: MPV Body Style: Motorhome

Descriptive information which characterizes/distinguishes the recalled vehicles from those models not included in the recall:

Recalled units identifiable by product code stamped on ECU part numbers 446 044 072 0 Cab Mount. All others are not included.

Make: Safari Model Year Involved: 1999-2000 Model: Sahara

Production dates: Beginning: 01/99 Ending: 04/00

VIN range: Beginning: 4SLA7BN23X1112821 Ending: 4SLA7AN21X1114593

Vehicle type: MPV Body Style: Motorhome

Descriptive information which characterizes/distinguishes the recalled vehicles from those models not included in the recall:

Recalled units identifiable by product code stamped on ECU part numbers 446 044 072 0 Cab Mount. All others are not included.

Make: Safari Model Year Involved: 1999-2000 Model: Serengetti

Production dates: Beginning: 01/99 Ending: 04/00

VIN range: Beginning: 4SLC0LP2XX1112833 Ending: 4SLC0LP25X1114599

Vehicle type: MPV Body Style: Motorhome

Descriptive information which characterizes/distinguishes the recalled vehicles from those models not included in the recall:

Recalled units identifiable by product code stamped on ECU part numbers 446 044 072 0 Cab Mount. All others are not included.

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Make: Safari Model Year Involved: 1999-2000 Model: Zanzibar

Production dates: Beginning: 01/99 Ending: 05/00
VIN range: Beginning: 4SLG1EV25X1101218 Ending: 4SLG1EN22Y1102649
Vehicle type: MPV Body Style: Motorhome

Descriptive information which characterizes/distinguishes the recalled vehicles from those models not included in the recall:

Recalled units identifiable by product code stamped on ECU part numbers 446 044 072 0 Cab Mount. All others are not included.

Make: Safari Model Year Involved: 1999-2000 Model: Cheetah

Production dates: Beginning: 11/99 Ending: 04/00
VIN range: Beginning: 4SLA7BN21Y1145026 Ending: 4SLA7BN26Y1145524
Vehicle type: MPV Body Style: Motorhome

Descriptive information which characterizes/distinguishes the recalled vehicles from those models not included in the recall:

Recalled units identifiable by product code stamped on ECU part numbers 446 044 072 0 Cab Mount. All others are not included.

Identify the approximate percentage of the production of all the recalled models manufactured by your company between the inclusion date of manufacturer provided above, that the recalled model population represents.

Approximately 80% of all Safari coaches produced between May 1998 and April 2000

Make: Beaver Model Year Involved: 1999-2000 Model: Contessa

Production dates: Beginning: 07/98 Ending: 06/00
VIN range: Beginning: 4SLC8LP21X1130033 Ending: 4SLC2KP351130533
Vehicle type: MPV Body Style: Motorhome

Descriptive information which characterizes/distinguishes the recalled vehicles from those models not included in the recall:

Recalled units identifiable by product code stamped on ECU part numbers 446 044 072 0 Cab Mount. All others are not included.

01V-130,001 (04)

Make: Beaver Model Year Involved: 1999-2000 Model: Monterey

Production dates: Beginning: 01/99 Ending: 06/00
VIN range: Beginning: 4SLB7AN26X1112732 Ending: 4SLB1AP2611114485
Vehicle type: MPV Body Style: Motorhome

Descriptive information which characterizes/distinguishes the recalled vehicles from those models not included in the recall:

Recalled units identifiable by product code stamped on ECU part numbers 446 044 072 0 Cab Mount. All others are not included.

Make: Beaver Model Year Involved: 1999-2000 Model: Patriot

Production dates: Beginning: 07/98 Ending: 05-00
VIN range: Beginning: 4SLC3KP32X1152415 Ending: 4SLD9HR3211153588
Vehicle type: MPV Body Style: Motorhome

Descriptive information which characterizes/distinguishes the recalled vehicles from those models not included in the recall:

Recalled units identifiable by product code stamped on ECU part numbers 446 044 072 0 Cab Mount. All others are not included.

Make: Beaver Model Year Involved: 1999-2000 Model: Marquis

Production dates: Beginning 09/98 Ending: 12/99
VIN range: Beginning: 4SLF4JR17X1170652 Ending: 4SLF5RR15Y1170940
Vehicle type: MPV Body Style: Motorhome

Descriptive information which characterizes/distinguishes the recalled vehicles from those models not included in the recall:

Recalled units identifiable by product code stamped on ECU part numbers 446 044 072 0 Cab Mount. All others are not included.

Make: Beaver Model Year Involved: 1999-2000 Model: Solitare

Production dates: Beginning 12/99 Ending: 12/99
VIN range: Beginning: 4SLH6PS15Y1179013 Ending: 4SLH6PS15Y1179013
Vehicle type: MPV Body Style: Motorhome

Descriptive information which characterizes/distinguishes the recalled vehicles from those models not included in the recall:

Recalled units identifiable by product code stamped on ECU part numbers 446 044 072 0 Cab Mount. All others are not included.

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Identify the approximate percentage of the production of all the recalled models manufactured by your company between the inclusion date of manufacturer provided above, that the recalled model population represents.

Approximately 90% of all Beaver coaches produced between May 1998 and April 2000

Make: Harney Coachworks Model Year Involved: 1999-2000 Model: Riata

Production dates: Beginning: 02/99 Ending: 05/00
VIN range: Beginning: 4VZ3L7099WC028171 Ending: 4VZ3L349XXC030032
Beginning: 4SLG8BN20X1101248 Ending: 4SLG8BN20Y1102661
Vehicle type: MPV Body Style: Motorhome

Descriptive information which characterizes/distinguishes the recalled vehicles from those models not included in the recall:

Recalled units identifiable by product code stamped on ECU part numbers 446 044 072 0 Cab Mount. All others are not included.

Make: Harney Coachworks Model Year Involved: 1999-2000 Model: Renegade

Production dates: Beginning: 12/98 Ending: 01/00
VIN range: Beginning: 4SLG7BN20Y1145173 Ending: 4SLG7CN2XY1145509
Vehicle type: MPV Body Style: Motorhome

Descriptive information which characterizes/distinguishes the recalled vehicles from those models not included in the recall:

Recalled units identifiable by product code stamped on ECU part numbers 446 044 072 0 Cab Mount. All others are not included.

Identify the approximate percentage of the production of all the recalled models manufactured by your company between the inclusion date of manufacturer provided above, that the recalled model population represents.

Approximately 80% of all Harney coaches produced between May 1998 and April 2000

II. Identify the Recall Population

3. Furnish the total number of vehicles recalled potentially containing the defect or noncompliance. Potentially involved:

Number of vehicles: 74 Model: Continental Year: 1999
Number of vehicles: 92 Model: Continental Year: 2000

Number of vehicles: 54 Model: Sahara Year: 1999
Number of vehicles: 57 Model: Sahara Year: 2000

Number of vehicles: 40 Model: Serengetti Year: 1999
Number of vehicles: 118 Model: Serengetti Year: 2000

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Number of vehicles: 75 Model: Zanzibar Year: 1999
Number of vehicles: 182 Model: Zanzibar Year: 2000

Number of vehicles: 0 Model: Cheetah Year: 1999
Number of vehicles: 63 Model: Cheetah Year: 2000

Number of Safari coaches potentially affected by the recall: 755

Approximate percentage of the total number of vehicles estimated to actually contain the defect or noncompliance: 65%-70%

Number of vehicles: 96 Model: Contessa Year: 1999
Number of vehicles: 46 Model: Contessa Year: 2000

Number of vehicles: 44 Model: Monterey Year: 1999
Number of vehicles: 55 Model: Monterey Year: 2000

Number of vehicles: 158 Model: Patriot Year: 1999
Number of vehicles: 100 Model: Patriot Year: 2000

Number of vehicles: 0 Model: Marquis Year: 1999
Number of vehicles: 17 Model: Marquis Year: 2000

Number of vehicles: 0 Model: Soliatre Year: 1999
Number of vehicles: 1 Model: Soliatre Year: 2000

Number of Beaver coaches potentially affected by the recall: 517 ___

Approximate percentage of the total number of vehicles estimated to actually contain the defect or noncompliance: 70%-75%

Number of vehicles: 0 Model: Riata Year: 1999
Number of vehicles: 61 Model: Riata Year: 2000

Number of vehicles: 47 Model: Renegade Year: 1999
Number of vehicles: 58 Model: Renegade Year: 2000

Number of Harney coaches potentially affected by the recall: 166 ___

Approximate percentage of the total number of vehicles estimated to actually contain the defect or noncompliance: 65%-70%

Total number potentially affected by the recall: 1438

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 vehicles.

Our purchasing records cannot support the actual date when the new style ECU was brought into our production facilities. The recall population as determined by SMC Corporation, includes all vehicles manufactured by Safari Motorcoaches, Beaver Motorcoaches, or Harney Coachworks, containing the Meritor/Wabco Anti-lock braking system, through to a time period of approximately six months beyond the date that the manufacturer superceded the component. Our inventory control levels mandate that in no case, would we have manufactured a Motor vehicle beyond the listed date, which would have contained the recalled component.

At the time of notification our inventories were checked, and no recalled components were found in our warehouses. Additionally, no motor vehicles in our inventories were found to contain the recalled component.

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.

Meritor WABCO has determined that the model "D" hydraulic ABS ECU manufactured between October 1997 and November 1999 fails to conform to the "indicator lamp" requirements

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

The ABS "indicator lamp" system is intended to provide the vehicle operator with a visual warning in the event of an ABS malfunction. The affected ABS ECU will not illuminate if the wheel speed sensor has been incorrectly installed such that there is an excessive air gap between the ABS sensor and the wheel.

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

An excessive gap will not cause any reduction in vehicle brake performance, but will disable the anti-lock function on the affected wheel without providing the required operator warning that the ABS function requires servicing.

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

NONE

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

Meritor WABCO
3331 West Maple Rd
Ste 300
Troy, MI 48084

011-130, 001 (2)

Identify the name and title of the chief executive office or knowledgeable representative of the supplier.

Dave Burley	Service Director
Name	Title

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.

The defect was determined by the component manufacturer who notified SMC Corporation

No reports of accidents, injuries, fatalities or other incidences have come to our offices. No warranty claims have been received, except those initiated through the recall notification.

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

The component manufacturer identified to SMC the defect by receipt of the recall notification

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.

Meritor WABCO recommends that the suspect ECU be either reprogrammed or replaced at any convenient SMC dealer. SMC will direct dealers to replace the ECU with the updated version, part number 400 850 086 0.

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

The updated ECU is able to identify an excess air gap between the wheel sensor and rotor.

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.

Subject component part number 446 044 0720 was superceded by the supplier with part number 400 850 086 0 prior to our notification of this recall.

01V-130.001 (09)

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.

All dealers will receive written notice. These will be mailed out on or about February 1, 2001. All registered owners will be notified by mail. Coach owners who have sold their coach will be asked to notify our company immediately and provide documentation, if possible, of any subsequent owners. Copies of the service bulletins and customer notification letters will be placed in our three factory service center locations. All coaches going into and out of our factory service centers will be inspected and updated.

VII. Furnish Recall Communication

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.

Documents include:

- A. Copy of Meritor-WABCO recall notice
- B. Copy of service bulletin and instructions for replacement of ECU
- C. Copy of notification to dealers
- D. Copy of notification to coach owners

MERITOR WABCO
Vehicle Control Systems

102400

01V-130.001 (10)

3331 West Big Beaver
Suite 300
Troy, MI 48084-2815
Telephone 248.435.8001
Facsimile 248.435.8002

October 3, 2000

Mr. Jack Fagan
Magnum Manufacturing / SMC Corporation
425 North 3rd Street
Harrisburg, OR 97446

**NOTICE: Meritor WABCO Phase 1 D-Version Hydraulic Anti-Lock
Braking System (ABS) Electronic Control Unit (ECU)
Manufactured From October 1997 – November 1999**

Meritor File: C1AA

NHTSA File: 00E-055

Dear Mr. Fagan,

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

Meritor WABCO has determined that a condition exists in the Meritor WABCO Phase 1 D-Version Hydraulic ABS Electronic Control Units (ECUs) manufactured from October 1997 through November 1999 (ECU PNs: 446 044 071 0, 446 044 072 0, 446 109 000 0 and 446 109 001 0), which does not comply with Federal Motor Vehicle Safety Standard (FMVSS) 105.

General Information

Meritor WABCO has discovered that the hydraulic ABS internal diagnostic system in the affected hydraulic ABS units may not detect an extreme wheel speed sensor air gap created while the vehicle is stationary. Such a condition could occur during original installation or subsequent wheel end service. ABS systems that do not provide a warning under these circumstances do not comply with FMVSS-105 (S.5.3.1 (c)).

Wheel ends assembled with an out-of-position sensor will no longer have ABS functioning in the affected wheel. ABS will be functional in all other wheel ends with properly installed sensors. Brake performance on all wheel ends of the vehicle (regardless of the condition of the sensor installation) will be unaffected.

Meritor WABCO is not aware of any accidents, injuries or customer complaints regarding this issue.

How does the vehicle owner determine if their Meritor WABCO hydraulic ABS is included in the recall?

If the hydraulic ABS ECU label contains any of the part numbers listed below, the ECU is included in the recall. The ECU part number label is positioned on the top of the cab mounted ECU and on the side of the frame mounted ECU.

- 446 044 071 0 (cab mounted)
- 446 044 072 0 (cab mounted)
- 446 109 000 0 (frame mounted)
- 446 109 001 0 (frame mounted)

What should vehicle owners do if they have a hydraulic ABS included in the recall?

Take the vehicle to a certified OEM dealership to have the Phase 1 D-Version Hydraulic ABS ECU either reprogrammed or replaced.

Questions and requests for literature and information

Meritor WABCO provides comprehensive driver and maintenance information which is available on request. This includes:

SP-9916	Hydraulic ABS Driver Tips Pamphlet
SP-9917	Hydraulic ABS Driver Information Audio Cassette
SP-9927	Hydraulic ABS for Medium Duty Trucks, Buses and Chassis
TP-99124	Hydraulic ABS Installation Guide for OEMs and Body Builders
MM-39	Hydraulic ABS Maintenance Manual (D version)

Questions or requests for literature and information may be directed to the Meritor WABCO Customer Service Center at 1-800-535-5560.

If you conclude that Meritor WABCO has not enabled you to remedy this condition without charge and in a reasonable time, you may submit a complaint to the:

Administrator
National Highway Traffic Safety Administration
400 Seventh Street, S.W.
Washington, D.C. 20590

01V-130.001 (12)

January 11, 2001

Dealer
Address
Address
City, State

Subject: Campaign Notice: D-version Antilock Braking Systems manufactured by Meritor WABCO from October 1997 through November 1999.

Dear Dealer:

General Information:

Meritor WABCO has determined that an excessive air gap between a wheel sensor and the wheel may not cause the ABS indicator lamp to activate. This air gap can occur during (1) original assembly or (2) subsequent wheel end service. An excessive gap will NOT cause any reduction in vehicle brake performance, but will disable the antilock function on the affected wheel without providing the required operator warning that the ABS function requires servicing.

Meritor WABCO recommends that the ECU for the braking system either be reprogrammed or replaced to correct this situation. To reprogram or replace the ECU should take less than one hour.

Dealer Information:

Meritor WABCO has requested that customers contact the ArvinMeritor Customer Service Center (CSC) to locate the closest Magnum/SMC dealer. You will receive a telephone call from the CSC asking whether you can change the ECU for these customers. The CSC will open a warranty claim at that time to reimburse you for the labor to change the ECU. SMC/Magnum vehicles are eligible for one hour of warranty credit. If inspection shows that a new P/N ECU has been installed, credit for one hour of labor will be given. All claims will be paid directly to the dealership.

Please fax the attached form (Attachment 2) to Meritor WABCO at 859-525-3779 three to four days prior to the vehicle service date to request a no charge ECU replacement kit. Indicate the date that the kit is required. The replacement kit P/N is:

<u>Currently installed ECU P/N</u>	<u>Replacement kit P/N</u>	<u>New ECU P/N</u>
446 044 072 0 (Cab Mount)	400 850 086 0	446 044 084 0

Note: The kit will contain a different ECU P/N than the unit you removed. If the currently installed ECU is a P/ N 446 044 084 0, the ECU does not require replacement.

SMC/Magnum vehicles will require this kit.

Note: The removed ECU must be destroyed to prevent its reuse.

OIV-130.001 (13)

We regret any inconvenience this situation may have caused.

Sincerely,

Meritor WABCO

Bill Brueggeman
Warranty Administrator

February 1, 2001

Customer
Address
Address
City, State

Subject: Campaign Notice: D-version Antilock Braking Systems manufactured by Meritor WABCO from October 1997 through November 1999 and installed in Magnum/SMC Vehicles.

Ref: NHTSA File: 00E-055

Dear Customer:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act. Meritor WABCO is providing this Notification on behalf of Magnum/SMC.

Magnum/SMC has examined their manufacturing records and determined that your vehicle is equipped with a Meritor WABCO ABS system that is affected by the Notice.

General Information:

Meritor WABCO has determined that Meritor WABCO's Model D hydraulic ABS ECU (Anti-lock Braking System Electronic Control Unit) manufactured between October 1997 and November 1999 fails to conform to the "indicator lamp" requirements specified in Federal Motor Vehicle Safety Standard (FMVSS)-105.

Specifically, the ABS "indicator lamp" system is intended to provide the vehicle operator with a visual warning in the event of an ABS malfunction. The affected ABS ECU will not illuminate (as required by FMVSS-105) if the wheel speed sensor has been incorrectly installed such that there is an excessive air gap between the ABS sensor and wheel.

An excessive air gap can inadvertently occur during (1) original assembly or (2) subsequent wheel end service. An excessive gap will **NOT** cause any reduction in vehicle brake performance, but will disable the antilock function on the affected wheel without providing the required operator warning that the ABS function requires servicing.

To correct this situation, Meritor WABCO recommends that the suspect ECU's be either reprogrammed or replaced. Reprogramming or replacing the ECU should take less than two hours.

The ECU can be reprogrammed or replaced at any convenient Magnum/SMC dealer. Please contact the ArvinMeritor Customer Service Center toll free at 1-800-535-5560 to locate your nearest dealership. This will also insure that parts are available at your dealership prior to taking your vehicle in for this campaign notice. After contacting ArvinMeritor, contact your dealership to schedule an appointment to have the ABS serviced. The service will be performed at no cost to the vehicle owner.

There are no particular driving precautions that Meritor WABCO suggests for vehicle operators to follow until the ABS system is serviced.

Questions or Complaints:

If you conclude that Meritor WABCO or Magnum/SMC has not enabled you to remedy this condition in a reasonable time, you may submit a complaint to the:

Administrator
National Highway Traffic Safety Administration
400 Seventh Street, S.W.
Washington, D.C. 205090

- or -

Call the toll free Auto Safety Hotline: 1-800-424-9393
(Washington D.C. Residents call 202-366-0123)

Meritor WABCO regrets any inconvenience that this situation may cause. Let me assure you that your safety is our most important concern.

Sincerely,

Meritor WABCO

Bill Brueggeman
Warranty Administrator

Copy: NHTSA