



5581 S.W. 50th St.
Kingman, KS 67068
(800)301-3487
(620)532-1125 fax

Safety Defect and Noncompliance Report Guide for Vehicles
PART 573 Defect and Noncompliance Responsibility and Reports¹

On June 25, 2008, ArvinMeritor decided that a defect which relates to motor vehicle safety exists 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 Responsibility and Reports.

Date this report was prepared: January 9, 2009

Furnish the manufacturer's identification code for this recall (if applicable): C8AE

1. Identify the full corporate name of the fabricating manufacturer of the vehicle being recalled. If the recalled vehicle is imported, provide the name and mailing address of the designated agent as prescribed by 49 U.S.C. §30164.

Neville Welding Inc., 5581 SW 50 St., Kingman, KS 67068

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

Jill Neville, Treasurer

Telephone Number: (620)532-3487 Fax No.: (620-532-1125

Name and Title of Person who prepared this report.

Jill Neville, Treasurer

Signed:

RECEIVED
2009 JANUARY 13 – 9:00 AM
OFFICE OF RECALL
MANAGEMENT DIVISION

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 Responsibility and 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 by E-Mail to RMD.ODI@dot.gov.

II. Identify the Recall Population

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

Model	Year	Number of Vehicles Potentially Involved
Grain hopper	2009	57
Dropdeck	2009	22
Flatbed	2009	1
Convertor dolly	2009	1

Total Number Potentially Affected by the Recall: 81

4. Furnish the approximate percentage of the total number of vehicles estimated to actually contain the defect or noncompliance: Unknown

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:

We received the suspect axles on or about April 21, 2008 and began using them from our inventory immediately. The majority of our trailers are tandem axle, we therefore computed 2 axles divided by the number of axles received on or about 4/21/2008 and covered a range of trailers manufactured within the above dates to insure any suspect trailers be included in this recall.

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 illustrations or photographs as necessary to describe the vehicle), provide:

Make(s): Neville Model Years Involved: 2009 Model(s): _____

Production Dates: Beginning: 4/18/08 Ending: 06/04/08

VIN Range: Beginning: 1N9DD53239D Ending: 1N9GT30269E

Vehicle Type: Trailer Bodystyle: dropdeck, grain hopper and convertor dolly

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

All units manufacturered between April 18, 2008 and June 4, 2008.

Make(s): _____ Model Years Involved: _____ Model(s): _____

Production Dates: Beginning: _____ Ending: _____

VIN Range: Beginning: _____ Ending: _____

Vehicle Type: _____ Bodystyle: _____

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

Make(s): _____ Model Years Involved: _____ Model(s): _____

Production Dates: Beginning: _____ Ending: _____

VIN Range: Beginning: _____ Ending: _____

Vehicle Type: _____ Bodystyle: _____

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

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 Vehicles equipped with certain items of equipment from January 1, 1996 through April 1, 1997, then what was the percentage of the recalled Vehicles of all Vehicles manufactured during that time period.

90% of the production during April 18, 2008 and June 4, 2008.

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.

Wheel end studs improperly tempered, potentially rendering them brittle and susceptible to fracture.

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

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

If one wheel stud fractures, the remaining wheel studs are required to carry more load. If left in this loading condition, the remaining wheel studs may also fracture even if they are properly manufactured.

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

Unknown at this time.

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

ArvinMeritor, 2135 W. Maple Road, Troy, MI 48084

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

Anne Balkcom

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.

May 2008 – contacted by AA Wheel & Tire that ArvinMeritor was having an issue with the wheel studs on axles.

June 25, 2008 – received letter from ArvinMeritor regarding the defect.

June 25 – 27, 2008 – inspected all axles in inventory and units in process that might contain suspect wheel studs.

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.

V. Identify the Remedy

8. A description of the manufacturer's program for remedying the defect or noncompliance. This program shall include a plan for reimbursing an owner or purchaser who incurred costs to obtain a remedy for the problem addressed by the recall within a reasonable time in advance of the manufacturer's notification of owners, purchasers and dealers, in accordance with §573.13 of this part. A manufacturer's plan may incorporate by reference a general reimbursement plan it previously submitted to NHTSA, together with information specific to the individual recall. Information required by §573.13 that is not in a general reimbursement plan shall be submitted in the manufacturer's report to NHTSA under this section. If a manufacturer submits one or more general reimbursement plans, the manufacturer shall update each plan every two years, in accordance with §573.13. The manufacturer's remedy program and reimbursement plans will be available for inspection by the public at NHTSA headquarters.

The remedy for this defect has been established by ArvinMeritor in their letter dated June 25, 2008, a copy of which is attached.

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

See letter from ArvinMeritor dated June 25, 2008.

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

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.

VI. Identify the Recall Schedule

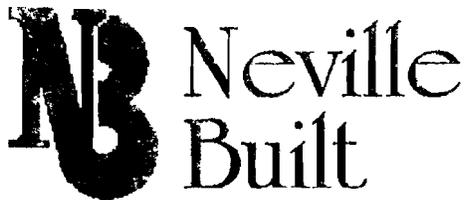
10. Furnish a schedule or agenda (with specific dates) for notification to other manufacturers, dealers/retailers, and purchasers. Please, identify any foreseeable problems with implementing the recall.

Aftermarket consumers will be notified by certified mail on or before January 15, 2009.

VII. Furnish Recall Communications

11. 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 to RMD.ODI@dot.gov for review prior to mailing.*

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



5581 S.W. 50th St.
Kingman, KS 67068
(800)301-3487
(620)532-1125 fax

SAFETY RECALL NOTICE

Dear (customer name):

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

Neville Welding Inc. has determined that a defect which relates to motor vehicle safety exists in certain wheel end studs shipped by our supplier. ArvinMeritor assembled these wheel end studs into hubs, which were then subsequently assembled into axles. These axles were assembled into dropdeck, grain hopper and flatbed trailers and sold to aftermarket customers between April 18, 2008 and June 4, 2008.

ArvinMeritor File: C8AE

NHTSA File: 08E-038

Description of Defect

The suspect wheel end studs were improperly tempered, potentially rendering them brittle and susceptible to fracture. If one wheel stud fractures, the remaining wheel studs are required to carry more load. If left in this loading condition, the remaining wheel studs may also fracture even if they are properly manufactured. The time between initial bolt fracture and subsequent bolt fracture will be dependent on loading and duty cycle and is unpredictable.

RECOMMENDED ACTION

Neville Welding Inc. recommends that owners of vehicles originally equipped with ArvinMeritor axle assemblies containing the suspect studs use the inspection procedure provided in Arvin Meritor Technical Publication TP-0894 (a copy of which is attached). The repair procedure within this technical bulletin can be used to inspect and replace suspect studs.

NOTE: Not all studs will need to be replaced. Only replace studs that are suspect by following the identification procedure within the TP-0894.

The affected trailers should be repaired as soon as feasible by a vehicle manufacturers' authorized repair facility. This replacement program will be managed by ArvinMeritor, and will be at no expense to vehicle owners.

If you no longer own the trailer referenced above, please forward the new owner's name and mailing address to Neville Welding Inc., 5581 SW 50 St., Kingman, KS 67068, toll free 800-301-3487.

If you have any questions regarding this recall, you may contact us at:

Neville Welding Inc., 5581 SW 50 St., Kingman, KS 67068
Toll free (800)301-3487

Or ArvinMeritor's On Trac Performance Plus Call Center, toll free 866-668-7221, fax 248-435-5580, e-mail: ontrac@ArvinMeritor.com

If you have already paid to have your wheel stud replaced for this condition, you may be eligible for reimbursement of the charges you paid for the replacement. To learn more about what you need to do to obtain reimbursement, please contact Neville Welding or ArvinMeritor at the numbers provided above.

If after attempting to have your vehicle repaired you believe you have not been able to have your vehicle remedied without charge and within a reasonable amount of time, you may submit a complaint to the Administrator, National Highway Traffic Safety Administration, 1200 New Jersey Ave., S.E., Washington, D.C., 20590; or call the toll-free Vehicle Safety Hotline at 1-888-327-4236 (TTY: 1-800-424-9153); or go to <http://www.safercar.gov>.

We apologize for any inconvenience this safety recall may cause. Neville Welding Inc. wants to assure you that we are concerned for customer safety and your continued satisfaction with your trailer.

Sincerely,

Jill C. Neville

Attachments

June 25, 2008

Marvin Neville
Neville Welding
5581 Southwest 58th
Kingsman, KS 67868

NOTICE: Defect Information Report, in accordance with 49 CFR §573.6, concerning certain wheel end studs supplied by B&D Thread Rolling and assembled into hubs shipped to ArvinMeritor OEM and Aftermarket customers between April 7, 2008 and May 19, 2008

ArvinMeritor File: C8AE

NHTSA File: 08E-038

Dear ArvinMeritor Customer:

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

ArvinMeritor has determined that a defect which relates to motor vehicle safety exists in certain wheel end studs shipped by our supplier. ArvinMeritor assembled these wheel end studs into hubs, which were then subsequently assembled into axles. Some hub assemblies and loose studs were also shipped to the aftermarket facility. These loose studs, hubs and axles were then shipped to ArvinMeritor OEM and Aftermarket customers between April 7, 2008 and May 19, 2008.

Description of Defect

The suspect wheel end studs were improperly tempered, potentially rendering them brittle and susceptible to fracture. If one wheel stud fractures, the remaining wheel studs are required to carry more load. If left in this loading condition, the remaining wheel studs may also fracture even if they are properly manufactured. The time between initial bolt fracture and subsequent bolt fracture will be dependent on loading and duty cycle and is unpredictable.

NHTSA Notification & Safety Recall Obligations

According to our records, affected units were shipped to your company. If those units were installed as original equipment on vehicles manufactured at your facility, and you agree that they contain a safety defect, your company must notify the National Highway Traffic Safety Administration (NHTSA) within 5 business days and conduct a safety recall of those vehicles. It is critical that the NHTSA guidelines are followed in a timely manner and that your customers are notified to conduct the remedy described below.

IMPORTANT: Some of the affected vehicles may still be in your inventory. Federal law requires you to complete the recall service on these vehicles before delivery. ArvinMeritor will provide replacement or repair for these units prior to delivery to your customers.



You must also submit your draft version of your dealer and customer notices to NHTSA for approval at least 5 days prior to mailing such notification to dealers and owners of potentially affected studs. You may contact NHTSA with questions by sending an email to rmd.odi@dot.gov.

IMPORTANT: Dealer notification by Certified Mail is required by Federal law for all safety recalls. Responsible dealership personnel should be instructed to sign for this Certified Mail without hesitation as it contains urgent safety recall information. Notifications to owners of potentially affected vehicles are by first class mail. Please be advised that the outside of each envelope containing an owner notification letter must be marked "SAFETY RECALL NOTICE" all in capital letters, either in boldface or underlined, and in type that is larger than that used in the address section. A sample of the envelope must be submitted to NHTSA for approval at least 5 business days before mailing to owners.

Recommended Action

ArvinMeritor recommends that owners of vehicles originally equipped with ArvinMeritor axle assemblies containing the suspect studs use the inspection procedure provided in ArvinMeritor Technical Publication TP-0894. The repair procedure within this technical bulletin can be used to inspect and replace suspect studs.

NOTE: Not all studs will need to be replaced. Only replace studs that are suspect by following the identification procedure within the TP-0894

The affected vehicles should be repaired as soon as feasible by a vehicle manufacturers' authorized repair facility. This replacement program will be managed by ArvinMeritor, and will be at no expense to vehicle owners.

Identification of Affected Parts

The suspect population information containing the axle serial numbers are attached with this notification. ArvinMeritor is continuing to research shipment records. You may receive a separate notice for additional axle serial numbers from ArvinMeritor.

Vehicle manufacturers are requested to provide VIN information and Vehicle In-Service Dates for the corresponding axle serial numbers for tracking field actions. The requested information is to be forwarded to:

Anne Balkcom
Anne.L.Balkcom@ArvinMeritor.com
Quality Manager – Florence, KY
Ph 859.746.5239 Fax 859.525.3624

Inspection of the stud heads, on the back side of the hub, will determine if stud replacement is required. Studs marked with NC-11 on the stud head must be replaced with new studs. Any other letter number combination is not part of the suspect population. Additional details for identification of suspect product are described in the ArvinMeritor Technical Publication TP-0894, attached to this notice.

Availability of Replacement Parts and Service Instructions

Replacement parts are currently available.

Vehicle manufacturers' (OEM) or repair facilities should obtain replacement studs by contacting ArvinMeritor's OnTrac Performance Plus Call Center using any of the below methods.

Contact: OnTrac Performance Plus Call Center, follow the menu system for the appropriate language and select option number 7

Note: This is an unannounced menu option

Phone: 1-866-668-7221

Fax: 248-435-5580

Email: ontrac@ArvinMeritor.com

Parts, Labor and Handling Allowance

The following are the details of allowances relating to parts, labor and handling available to vehicle manufacturers' (OEM):

- Because of the urgency of the issue ArvinMeritor will provide parts at no cost using over night shipping.
- ArvinMeritor will reimburse as the standard repair time (SRT) of 1/2 hour per wheel end for inspections and an additional 1/10th hour per 1-2 studs.

Removed Material Disposition

Dealers should change identified suspect studs only on an identified vehicle axle even if only one stud on the axle has been identified as suspect. Removed studs should be returned to ArvinMeritor. Call the OnTrac for specific shipping information. See above of OnTrac contact info.

Claims for Credit

ArvinMeritor will accept warranty claims for inspecting and replacing the suspect studs associated with this notice directly from the vehicle manufacturers (OEM). In order to receive proper credit, such warranty claims must contain the following information at the time of submission:

- Reference to ArvinMeritor Campaign ID Number C8AE
- Reference to NHTSA Campaign ID Number : 08E-038
- Reference to the vehicle manufacturer's campaign number (optional)
- 17-digit vehicle identification number (VIN)
- Axle serial number
- Vehicle owner's name, address, and telephone number
- Vehicle in-service date
- Vehicle repair date
- Vehicle mileage at the time of repair
- Dealer work order number
- Repairing facility name, address, and telephone number
- Total labor hours required performing the work, not to exceed agreed formula
- Repair facilities hourly rate



- Number of studs replaces and shipped to ArvinMeritor's Carrolton, KY facility
- Tracking number for shipment of returned suspect studs.

Failure to provide complete information will delay processing of the warranty claim.

Questions relating to warranty claims, replacement parts delivery and parts disposition can be addressed to the ArvinMeritor OnTrac Performance Plus Call Center using any of the below methods.

Contact: OnTrac Performance Plus Call Center, follow the menu system for the appropriate language and select option number 7

Note: This is an unannounced menu option

Phone: 1-866-668-7221

Fax: 248-435-5580

Email: ontrac@ArvinMeritor.com

Communication

If you conclude that ArvinMeritor 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
1200 New Jersey, S.E.
Washington, D.C. 20590

- or -

Call the toll free Vehicle Safety Hotline: 1-888-327-4236; (TTY: 800-424-9153
or go to <http://www.safercar.gov>

We regret any inconvenience that this situation may cause. ArvinMeritor wants to assure you that we are concerned for customer safety and your continued satisfaction with our products.

Sincerely,

ArvinMeritor

Frank Cookson
Manager of Customer Service

Attachments:

CUSTOMER NAME Neville Welding

CUSTOMER LOCATION 5581 Southwest 58th Kingsman, KS 67868

Contact Marvin Neville 620-532-3487

SERIAL #	PART #	STATUS
FRK00467455	TQ4671QH4940	Escape - VIN Unknown
FRK00488154	TQ4670QH4939	Escape - VIN Unknown
FRK00488155	TQ4670QH4939	Escape - VIN Unknown
FRK00488156	TQ4670QH4939	Escape - VIN Unknown
FRK00488157	TQ4670QH4939	Escape - VIN Unknown
FRK00488158	TQ4670QH4939	Escape - VIN Unknown
FRK00488159	TQ4670QH4939	Escape - VIN Unknown
FRK00488160	TQ4670QH4939	Customer Inspection Results Due - 1N9GT36289E
FRK00488161	TQ4670QH4939	Escape - VIN Unknown
FRK00488162	TQ4670QH4939	Escape - 1N9AH382X9E
FRK00488163	TQ4670QH4939	Escape - 1N9GT38229E
FRK00488164	TQ4670QH4939	Escape - VIN Unknown
FRK00488165	TQ4670QH4939	Escape - 1N9GT42239E
FRK00488166	TQ4670QH4939	Escape - VIN Unknown
FRK00488167	TQ4670QH4939	Escape - VIN Unknown
FRK00488168	TQ4670QH4939	Customer Contained - Inspection Results Due
FRK00488169	TQ4670QH4939	Customer Contained - Inspection Results Due
FRK00488170	TQ4670QH4939	Escape - VIN Unknown
FRK00488171	TQ4670QH4939	Escape - VIN Unknown
FRK00488172	TQ4670QH4939	Escape - VIN Unknown
FRK00488173	TQ4670QH4939	Escape - VIN Unknown
FRK00488174	TQ4670QH4939	Escape - VIN Unknown
FRK00488175	TQ4670QH4939	Customer Inspection Results Due - 1N9GT38209E175605
FRK00488176	TQ4670QH4939	Customer Inspection Results Due 1N9GT262X9E175608
FRK00488177	TQ4670QH4939	Escape - VIN Unknown
FRK00488178	TQ4670QH4939	Escape - VIN Unknown
FRK00488179	TQ4670QH4939	Escape - VIN Unknown
FRK00488180	TQ4670QH4939	Escape - VIN Unknown
FRK00488181	TQ4670QH4939	Escape - VIN Unknown
FRK00488203	TQ4671QH4940	Escape - 1N9AH382X9E
FRK00488204	TQ4671QH4940	Escape - VIN Unknown
FRK00488205	TQ4671QH4940	Customer Inspection Results Due - 1N9GT38209E
FRK00488206	TQ4671QH4940	Escape - 1N9GT42239E
FRK00488207	TQ4671QH4940	Escape - VIN Unknown
FRK00488208	TQ4671QH4940	Customer Inspection Results Due - 1N9GT42229E
FRK00488209	TQ4671QH4940	Escape - VIN Unknown
FRK00488210	TQ4671QH4940	Customer Inspection Results Due - 1N9GT42229E
FRK00488211	TQ4671QH4940	Escape - VIN Unknown
FRK00488212	TQ4671QH4940	Escape - 1N9GT24199E
FRK00488213	TQ4671QH4940	Escape - VIN Unknown
FRK00488214	TQ4671QH4940	Escape - VIN Unknown
FRK00488215	TQ4671QH4940	Escape - VIN Unknown

Neville

FRK00488216	TQ4671QH4940	Customer Contained - Inspection Results Due - 1N9DD53219E
FRK00488217	TQ4671QH4940	Escape - VIN Unknown
FRK00488218	TQ4671QH4940	Customer Contained - Inspection Results Due - 1N9LT48279D175496
FRK00488219	TQ4671QH4940	Customer Contained - Inspection Results Due - 1N9GT24169E
FRK00488220	TQ4671QH4940	Escape - VIN Unknown
FRK00488221	TQ4671QH4940	Escape - VIN Unknown
FRK00488222	TQ4671QH4940	Escape - VIN Unknown
FRK00488223	TQ4671QH4940	Escape - VIN Unknown
FRK00488224	TQ4671QH4940	Customer Contained - Inspection Results Due
FRK00488225	TQ4671QH4940	Escape - VIN Unknown
FRK00488226	TQ4671QH4940	Customer Contained - Inspection Results Due
FRK00488227	TQ4671QH4940	Customer Contained - Inspection Results Due
FRK00488228	TQ4671QH4940	Customer Contained - Inspection Results Due
FRK00488229	TQ4671QH4940	Customer Contained - Inspection Results Due
FRK00488230	TQ4671QH4940	Escape - VIN Unknown

MERITOR[®]
an **ArvinMeritor** brand

Technical Bulletin

Removing and Installing Wheel Studs from Mounted or Loose Hubs

ArvinMeritor Program Number C8AE
Replacement Wheel Stud Part Number 09-002003

Hazard Alert Messages

Read and observe all Warning and Caution hazard alert messages in this publication. They provide information that can help prevent serious personal injury, damage to components, or both.

WARNING

To prevent serious eye injury, always wear safe eye protection when you perform vehicle maintenance or service.

Park the vehicle on a level surface. Block the wheels to prevent the vehicle from moving. Support the vehicle with safety stands. Do not work under a vehicle supported only by jacks. Jacks can slip and fall over. Serious personal injury and damage to components can result.

Do not use a hammer to remove or install wheel studs. A hammer can cause impact damage to the bearing raceway, which will reduce bearing life. Serious personal injury and damage to components can result.

Ensure that you do not damage wheel stud threads during installation procedures. Damaged threads will not allow the wheel stud to provide the required clamp to support the wheel retention system. The wheels can loosen and separate from the vehicle. Serious personal injury and damage to components can result.

ASBESTOS AND NON-ASBESTOS FIBERS WARNING

Some brake linings contain asbestos fibers, a cancer and lung disease hazard. Some brake linings contain non-asbestos fibers, whose long-term effects to health are unknown. You must use caution when you handle both asbestos and non-asbestos materials.

How to Obtain Additional Maintenance and Service Information

Refer to Maintenance Manual MM-0409, Wheel-End Components. To obtain this publication, visit Literature on Demand at arvinmeritor.com.

How to Order Replacement Wheel Studs (Part Number 09-002003)

Contact ArvinMeritor's OnTrac Performance Plus Technical Service Center at 866-668-7221 if you would like replacement wheel studs supplied at no cost; or you can order replacement wheel studs through normal channels from ArvinMeritor's Commercial Vehicle Aftermarket at 888-725-9355.

Parts Required

- Replacement wheel studs, part number 09-002003 (package of 4)

Tools Required

- Modified C-clamp
- Optional, special aftermarket wheel stud removal/installation tools are available and can be purchased from your local parts supplier.
- General hand tools
- Appropriate lifting equipment including jack stands
- Maintenance Manual MM-0409

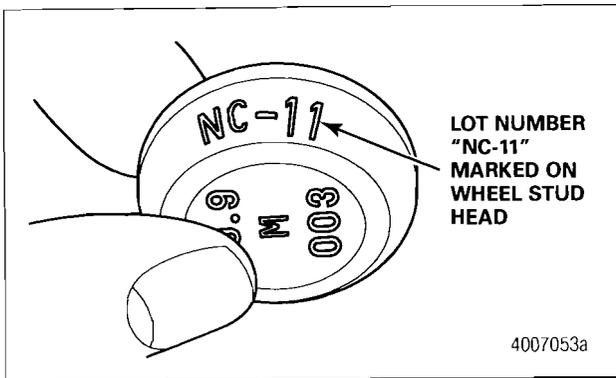


Figure 4

Remove the Wheel Studs from a Hub Mounted on the Axle

1. Wear safe eye protection.
2. Park the vehicle on a level surface. Block the wheels to prevent the vehicle from moving.
3. Raise the axle of the wheels to be serviced. Support the vehicle with safety stands.
4. For drum brake applications, back off the brake at the slack adjuster until the brake shoes retract and the drum clears the linings. Figure 5. The wheel studs on disc brake applications with the suspect wheel stud should be serviceable without adjusting the brakes or loosening the rotor.

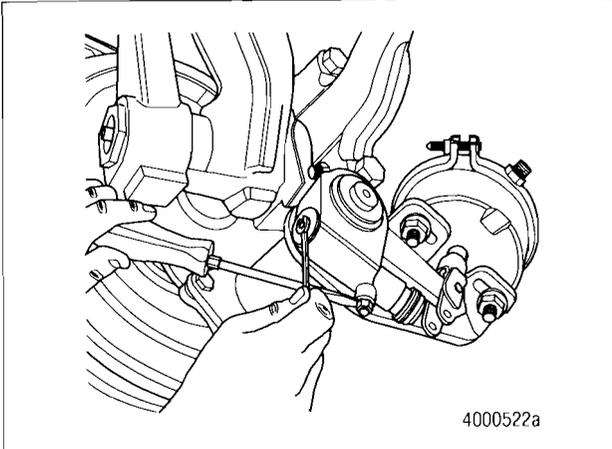


Figure 5

5. Remove the brake drum if applicable.

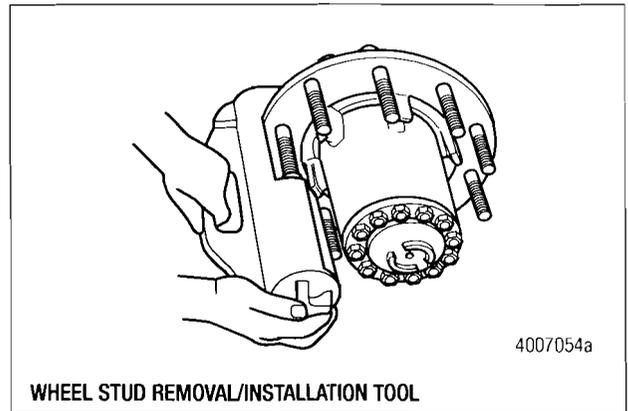
CAUTION

Do not use a hammer or drift to remove the wheel studs while the hub is mounted to the axle. Damage to the bearings and inboard seal can result.

Support the back face of the hub while you press on the outboard end of the wheel stud. Otherwise, the load can transfer to the bearings and seal. Damage to components can result.

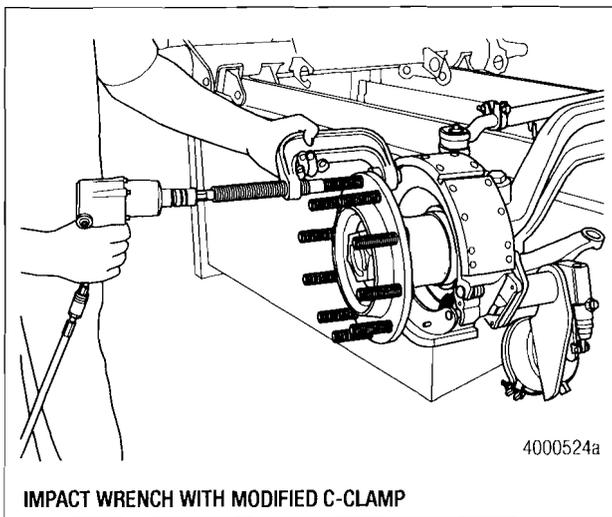
Ensure the wheel stud removal/installation tool is aligned with the wheel stud so the wheel stud pushes straight out. If you do not push the wheel stud straight out, you can damage the wheel stud hole. A damaged hole will prevent a correct press-fit when you install the new wheel stud.

6. Use a wheel stud removal/installation tool, modified C-clamp or other appropriate tool to remove the wheel studs. Support the back face of the hub while you press on the outboard end of the wheel stud. Ensure the tool is aligned with the wheel stud, so the wheel stud pushes straight out. Refer to the tool manufacturer's instructions for correct operating procedures. Figure 6 and Figure 7.



WHEEL STUD REMOVAL/INSTALLATION TOOL

Figure 6



IMPACT WRENCH WITH MODIFIED C-CLAMP

Figure 7

Install the Replacement Wheel Studs onto a Hub Mounted on the Axle

1. Inspect the wheel stud holes for any damage that may affect the press fit between the hub and the new wheel stud. A ribbed pattern in the wheel stud hole resulting from the serrations on the original wheel stud is normal. Ensure there are no burrs present and that the hole is round and untapered.
 - **If burrs are present:** Remove them with a file.
 - **If the hole is out of round or tapered:** Replace the hub.
2. Thoroughly clean the wheel stud hole and flange surface of any debris.
3. Insert a new wheel stud into the hub wheel stud hole. Align the wheel stud serrations on the new wheel stud with the serration marks in the hub wheel stud hole. Figure 8.

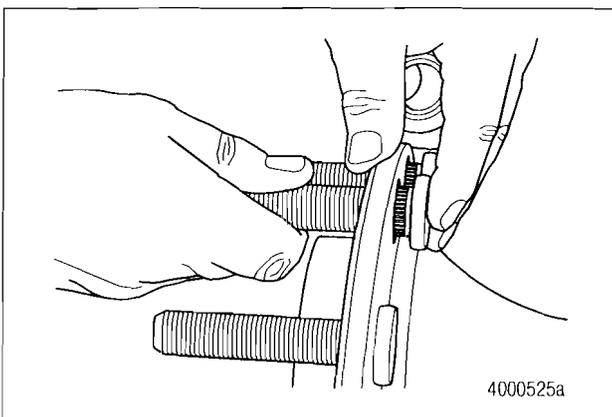


Figure 8

4. Use a wheel stud removal/installation tool or a modified C-clamp to install the wheel stud into the hub wheel stud hole. Ensure the hub flange is fully supported, so no loads are transmitted to the bearings or seals. Verify the tool is aligned with the wheel stud, so the wheel stud pushes straight in. Figure 6 and Figure 7.
5. Verify the wheel stud is fully seated against the hub flange. Use a 0.002-inch feeler gauge to check the gap between the wheel stud and the hub flange. If the feeler gauge fits under the wheel stud head, reseal the wheel stud. Figure 9.

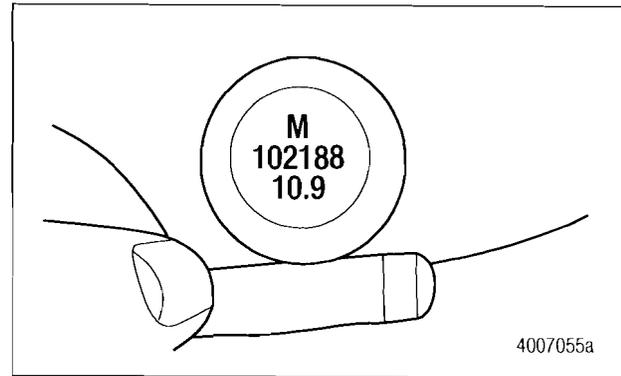


Figure 9

Remove the Wheel Studs from a Loose Hub

⚠ WARNING

Observe all warnings and cautions provided by the press manufacturer to avoid damage to components and serious personal injury.

When you handle a loose hub, take care that you do not change the ABS tooth wheel alignment relative to the hub. Damage to components can result.

Use a press to force the wheel stud out of the hub. Do not use a hammer. Damage to components can result. Support the hub flange evenly around and adjacent to the wheel stud you are servicing to avoid bending or fracturing the flange.

1. Install the hub into a press. Support the hub flange evenly around the wheel stud you will remove. Use care when handling the hub to avoid changing the ABS tooth wheel alignment relative to the hub.
2. Press the wheel stud straight out from the hub.

Install the Wheel Studs onto a Loose Hub

WARNING

Observe all warnings and cautions provided by the press manufacturer to avoid damage to components and serious personal injury.

When you handle a loose hub, take care that you do not change the ABS tooth wheel alignment relative to the hub. Damage to components can result.

Use a press to force the wheel stud out of the hub. Do not use a hammer. Damage to components can result. Support the hub flange evenly around and adjacent to the wheel stud you are servicing to avoid bending or fracturing the flange.

1. Inspect the wheel stud holes for any damage that may affect the press fit between the hub and the new wheel stud. A ribbed pattern in the wheel stud hole resulting from the serrations on the original wheel stud is normal. Ensure there are no burrs present and that the hole is round and untapered.
 - **If burrs are present:** Remove them with a file.
 - **If the hole is out of round or tapered:** Replace the hub.
2. Thoroughly clean the wheel stud holes and flange surface of any debris.
3. Use a crocus cloth to clean all the flat surfaces on the wheel and hub.
4. Insert a new wheel stud into the hub wheel stud hole. Align the wheel stud serrations on the new wheel stud with the serration marks in the hub wheel stud hole. Figure 8.
5. Place the hub into a press. Support the hub flange evenly around the wheel stud you will install. Use care when handling the hub to avoid changing the ABS tooth wheel alignment relative to the hub.
6. Press the wheel stud straight into the hub wheel stud hole. Verify the press is aligned with the wheel stud, so the wheel stud pushes straight in.
7. Verify the wheel stud is fully seated against the hub flange. Use a 0.002-inch feeler gauge to check the gap between the wheel stud and the hub flange. If the feeler gauge fits under the wheel stud head, reseal the wheel stud. Figure 9.

Call the ArvinMeritor OnTrac Performance Plus Technical Service Center After Completing the Inspection and Replacement Procedure

You may contact ArvinMeritor's OnTrac Performance Plus Technical Service Center at 1-866-668-7221 (United States and Canada) between 8:00 AM and 8:00 PM ET Monday through Friday, and between 9:00 AM and 6:00 PM ET on Saturday. After selecting "preferred language," select "Option 1," then "Option 2" and refer to Program Number C8AE.

The repair facility or end user will be paid directly by ArvinMeritor. Once the repairs have been completed, call ArvinMeritor's OnTrac Performance Plus Technical Service Center with the following information to receive payment. You may contact ArvinMeritor's OnTrac Performance Plus Technical Service Center if you have any questions on the above reimbursements or repair procedures.

- Vehicle repair date
- Vehicle mileage at the time of the repair
- Repair facility work order number
- Total labor hours required to perform the repairs
- Axle serial number
- Returned shipping information (confirmation that the removed wheel studs have been shipped back to ArvinMeritor)

Labor Allowances

SRT Time for C8AE

Operation	Includes	SRT
Inspection per axle	Lifting and supporting the vehicle off the ground Caging and uncaging the spring brake Tire removal and replacement on one axle Drum removal and replacement Visual inspection of the wheel studs Documenting the inspection data	1.0 hour
Wheel stud replacement (done after inspection)	Wheel stud removal and replacement	1/10th hour for 1-2 wheel studs 2/10th hour for 3-4 wheel studs 3/10th hour for 5-6 wheel studs 4/10th hour for 7-8 wheel studs 5/10th hour for 9-10 wheel studs

Parts Return

ArvinMeritor's OnTrac Performance Plus Technical Service Center will provide complete parts return information. Return wheel studs marked with part number **003** and lot number **NC-11** on the wheel stud head to the address below.

ArvinMeritor
5212 US HWY, 42 EAST
CARROLTON, KY 41008
Attn: Douglas Thatcher

ArvinMeritor™

Meritor Heavy Vehicle Systems, LLC
2135 West Maple Road
Troy, MI 48084 USA
800-535-5560
arvinmeritor.com

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