



## SI M32 02 15 Steering and Wheel Alignment

June 2016  
Technical Service

### Recall 15V-660: Electro-Hydraulic Power Assist Steering (EHPAS) System

This Service Information bulletin supersedes SI 32 02 15 **dated March 2016**.

Please perform the procedure outlined in this Service Information on all affected vehicles before customer delivery. In the event the customer has already taken delivery of the vehicle, please perform the procedure the next time the vehicle is in the shop.

### MODEL

R50 (Cooper)	R53 (Cooper S)	R52 (Cooper and Cooper S Convertibles)
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### SITUATION

Force necessary to steer the vehicle may have intermittently or permanently increased.

### AFFECTED VEHICLES

This Recall Campaign involves R50, R52 and R53 models produced from September 12th 2001 to February 9th 2005.

Vehicles which require this Recall Campaign to be completed will show it as "Open" when checked either in AIR, the "Service Menu" of DCSnet (Dealer Communication System) or with the Key Reader.

Customer letters will be mailed on Friday, March 4, 2016. This will inform them to visit a dealer and have the repair performed.

### CAUSE

Components of the power assisted steering system may have failed/may be failing.

### CORRECTION

Check the power steering pump with wiring harness and the fan. Replace them if necessary.

### PROCEDURE

1. Check the part number of the power steering pump.

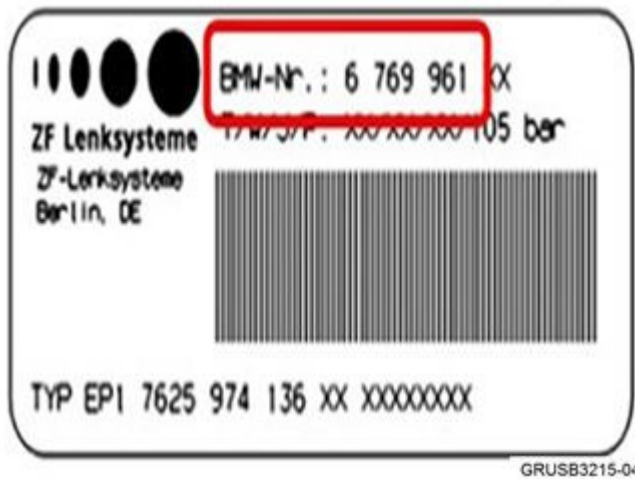
Remove the power steering pump as per REP 32 41 030 "Remove and refit the power steering pump for the hydraulic steering gear". In the unlikely event of a leaking or damaged low pressure hose between the fluid reservoir and pump, the hose should be replaced. Refer to the latest version of ETK for the correct intake manifold P/N.

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- Identify the part number on the label attached to the power steering pump

There are 3 different types of labels that can be found on the power steering pump



- Variant 1 with BMW part number located at the top



- Variant 2 with BMW part number located at the bottom

	<ul style="list-style-type: none"> <li>• Variant 3 without BMW part number (remanufactured unit)</li> </ul>
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**UPDATE!** Table of unaffected Electro Hydraulic Power Assist (EHPAS) pump numbers

Variant	Part Numbers
1 and 2	6 769 758 or 6 769 759
	6 769 962 or 6 769 963
	6 778 424 or 6 778 425
3	76225955131-50
	7625955146-50

**Note: Before making electrical connections to the following components, check the wiring harness and ground connection as described in step 2 and 3.**

**Was the part number of the power steering pump found AND shown in the table above?**

YES - Reinstall the power steering pump and fan as per REP 32 41 030 "Remove and refit the power steering pump for the hydraulic steering gear" and REP 32 41 070 "Remove and refit/replace the fan for the hydraulic steering".

NO – Replace the power steering pump and fan as per REP 32 41 030 "Remove and refit the power steering pump for the hydraulic steering gear" and REP 32 41 070 "Remove and refit/replace the fan for the hydraulic steering".

2. Check the wiring harness connector on the Electro Hydraulic Power Assist Pump (EHPAS) for corrosion or damage.

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Connector without corrosion



Connector with corrosion

**Is there corrosion or damage on the connector?**

**YES** - replace the additional wiring harness. Install the additional wiring harness in the same way as the existing wiring harness and connect to the power steering pump and fan.

**NO** – make the electrical connections to the power steering pump and fan.

3. Check the ground connection on the front left engine support for protective heat shrink tubing around the cable eye crimp.

Ground connection (1) on the front



engine support with heat shrink tubing (2).



Ground connection without protective heat shrink tubing around cable eye crimp.

**UPDATE!** Is there corrosion or damage on the connector **OR** is there no protective heat shrink tubing on the ground cable eye crimp?

**UPDATE!** YES - replace the additional wiring harness. Install the additional wiring harness in the same way as the existing wiring harness and connect to the power steering pump and fan (refer to labor operations 00 63 165 and 00 63 166). Also refer to REP 61 00 ...”Information on handling wiring harness and lines.

**UPDATE!** NO – make the electrical connections to the power steering pump and fan.

#### PARTS INFORMATION

Checking the EHPAS only:

<b>UPDATE!</b> Part Number	Description	Quantity
<b>UPDATE!</b> 07 11 9 905 374	Self-locking flanged nut	3

<b>UPDATE!</b> 32 41 6 757 254	Flanged hexagon nut	4 (if required)
<b>UPDATE!</b> 07 13 6 778 958	Rubber mount	Up to 4 (if required)
<b>UPDATE!</b> 32 11 1 131 345	Hose clamps	2 (if required)
<b>UPDATE!</b> 32 41 6 762 724	O-ring	1 (if required)
<b>UPDATE!</b> 32 41 6 754 507	Internal Torx Bolt M8x20	2 (if required)
<b>UPDATE!</b> 83 29 0 429 576	Hydraulic fluid CHF 11 S (1000ml)	As needed

### Replacing the power steering pump:

Part Number	Description	Quantity
32 41 6 882 269	Power steering pump	1
32 41 6 882 330	Fan with protective grill	1

### Replacing the wire harness: only if needed... please do not order for stock

Part Number	Description	Quantity
12 42 7 530 354	Additional wiring harness for the R50 power steering pump	1
Or:		
12 42 7 530 357	Additional wiring harness for power steering pump R52 R53	1
61 13 1 367 599	Cable tie	5

### WARRANTY INFORMATION

Reimbursement for this Recall will be via normal claim entry utilizing the following information:

<b>Defect Code:</b>	<b>00 32 28 02 00</b>
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### Checking only

<b>Labor Operation:</b>	<b>Labor Allowance:</b>	<b>Description:</b>
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00 63 163	Refer to KSD2	Check the power steering pump and wiring harness (includes removing and installing the power steering pump and fan, no repair is necessary) (Main work)
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**Note:** Some of these vehicles may have already had repairs performed and/or previous repairs reimbursed and submitted as outlined in [SIM01 01 13](#).

**One of the repairs listed below is necessary:**

Labor Operation:	Labor Allowance:	Description:
00 63 164	Refer to KSD2	Replace the power steering pump and the fan, check the wiring harness (Main work)
Or:		
00 63 165	Refer to KSD2	Check the power steering pump and replace the wiring harness (includes removing and installing the power steering pump) (Main work)
Or:		
00 63 166	Refer to KSD2	Replace the power steering pump, fan and wiring harness (Main work)

Refer to KSD2 for the corresponding flat rate unit (FRU) allowance.

And, as needed:

#### **Sublet – Bulk Materials**

Sublet Code 4	See sublet reimbursement calculation below	Reimbursement for the used quantity of Pentosin CHF 11S (Bulk container reference P/N 83 29 0 429 576, “1000ml” container. Do not use this part number for claim submission)
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Sublet calculation: Reimbursement for used quantities of Pentosin CHF 11S (Bulk container reference P/N 83 29 0 429 576, “1000ml” container) at dealer net plus your dealer’s handling.

Enter this material cost in sublet and itemize the amount in the claim comment section

### **Prior Customer-pay Repair Reimbursement (TREAD Act)**

MINI USA, a division of BMW of North America, LLC (“MINI USA”) will provide reimbursement for “qualifying customer-pay repairs” that were performed on an eligible vehicle prior to the release of this Recall or the previously announced limited warranty extension (see [SI M01 01 13](#)).

### **Reimbursement Procedure**

1. Review and verify that the previous customer-pay invoice (MINI dealer or independent repair shop) contains a repair that was performed that addresses the issues described in this “Recall” Service Information bulletin.
2. **Review the DCSnet Warranty Vehicle Inquiry to confirm that this “prior repair” has not already been reimbursed by MINI USA as outlined in [SI M01 01 13](#).**
3. Reimburse the customer (labor and parts).
4. Submit for this customer-paid repair expense under Defect Code 85 99 00 12 NA, as follows:
  - Sublet Code 3
  - Dollar amount (with no markup)
  - Comment: Recall 15V-660: Electro-Hydraulic Power Assist Steering (EHPAS) System - Reimbursement for allowable expenses that relate to performing a prior qualifying customer-pay repair.
  - Itemize the sublet amount on the repair order and in the claim comments
5. Retain the “original” customer pay invoice in your files; this documentation may be requested by MINI during the claim review process).

**Note:** A previously reimbursed repair, a repair performed on a non-affected vehicle, and/or, the diagnosis and repair of other “unrelated issues” on an affected or non-affected vehicles does not qualify for reimbursement.

This claim submission for the “prior customer-pay reimbursement,” when it is submitted as outlined under Defect Code 85 99 00 12 NA, **will not close** the “Open” Safety Recall on the vehicle.

**The applicable “open” Recall repair must still be performed on the vehicle.**

### **ATTACHMENTS**

View PDF attachment [M320215 Final Customer Letter](#).

View PDF attachment [M320215 Q&A](#).



View PDF attachment [Recall Notice M320215](#).

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## **SAFETY RECALL NOTICE**

To: All Center Operators, Sales Managers, Service Manager, Parts Manager and Warranty Processor

RE: **Recall 15V-xxx: Electro-Hydraulic Power Steering (EHPS) System** M32 02 15

BMW AG is conducting a Voluntary Safety Recall (effective October 13, 2015) involving the EHPS System in certain:

- Model Year 2002-2005 MINI Cooper and Cooper S
- Model Year 2005 MINI Cooper and Cooper S Convertibles

The EHPS System may experience temporary or permanent loss of power assistance due to manufacturing and field exposure issues. The affected vehicles are currently covered for this issue under a 13 year/150,000 mile extended warranty per M01 01 13. Until MINI USA is ready to release the recall campaign, the extended warranty will remain available to you to address any customers' issues.

Owners will be notified by First Class mail about the Recall and will be instructed to bring their vehicles in for a free repair when the recall repair is available.

**Please be reminded that it is a violation of Federal law for you to sell, lease or deliver any vehicle covered by this notification until the recall repair has been performed. This means that centers may not legally deliver new motor vehicles to a consumer until it is fixed or use/sell replacement equipment/parts subject to a Recall. Note also that substantial civil penalties apply to violations of this law.**

**Also, you should not sell, lease or deliver any Certified Pre-Owned or used vehicles subject to a safety recall until the repair is completed.**

**Please follow any special instructions that we provide to you for the return or disposition of recall parts.**

We appreciate all your assistance with this Recall.

## **IMPORTANT SAFETY RECALL**

This notice applies to your vehicle, **[INSERT VIN]**

**March 2016**

### **Recall Campaign No. 15V-660: Electro-Hydraulic Power Steering (EHPS) System**

Dear MINI Owner / Lessee:

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

BMW AG has decided that a defect, which relates to motor vehicle safety, exists in certain Model Year 2002-2005 MINI Cooper and Cooper S vehicles and certain Model Year 2005 MINI Cooper and Cooper S Convertible vehicles. Our records indicate that you are the owner/lessee of an affected vehicle.

### **IMPORTANT NOTICE**

Please note that we had informed you of this matter by letter in December 2015 and indicated that we were not ready to perform this recall. We are pleased to inform you that we are now ready, and we encourage you to schedule an appointment with your authorized MINI dealer as soon as possible to **have this recall performed free of charge**.

### **DESCRIPTION OF PROBLEM**

This recall involves the electro-hydraulic power steering (EHPS) system. If your vehicle has not already received an appropriate repair, the electro-hydraulic power steering system may incur a temporary or permanent loss of assistance due to manufacturing and field exposure issues. If you experience a temporary or a permanent loss of the power steering assist function, manual steering capability would be retained, however greater steering effort would be required. This may increase the potential for a crash.

### **PRECAUTIONS FOR YOUR SAFETY**

1. **CONTACT YOUR AUTHORIZED MINI DEALER IMMEDIATELY TO HAVE THE NECESSARY FREE REPAIR PERFORMED AS SOON AS POSSIBLE.** You can find your nearest dealer at [www.miniusa.com/dealer](http://www.miniusa.com/dealer).
2. **if you detect any of the following conditions, your MINI may have this problem:**
  - **An increase in steering effort may be needed at low vehicle speeds,**
  - **An increase in steering effort may be noticed at the start of the driving cycle,**
  - **A decrease in power assist steering may be noticed during driving, and/or**
  - **A low battery warning message may illuminate in the instrument cluster at engine start.**
3. **If you are not the only driver of this vehicle, please advise all other drivers and passengers of this important information.**

**DESCRIPTION OF REPAIR**

The electro-hydraulic power steering system will be inspected by an authorized MINI dealer, and components such as the EHPS pump, fan, and/or wiring, will be replaced, as deemed necessary and appropriate.

The **free** inspection and repair may take several hours; however, additional time may be required depending upon your authorized MINI dealer's schedule and the determined corrective measure.

**OTHER INFORMATION**

If you are no longer the owner of this vehicle, we request that you provide us with the name and address of the new owner using the enclosed postage-paid card so that we can contact the new owner regarding this issue. If you are a lessor of this vehicle, Federal Regulations require you to forward this notice to your lessee within ten days. If you have already had this repair performed at your own expense, please see the attachment regarding possible eligibility for reimbursement.

**Should you have any questions about this recall, please contact your authorized MINI dealer.** Should you need additional assistance, you may contact MINI Customer Relations and Services via Email at [MINI.Assistance@askminiusa.com](mailto:MINI.Assistance@askminiusa.com), or by calling 1-866-825-1525 from 9 AM to 9 PM Eastern Time, Monday through Friday.

If your MINI dealer is unable to remedy the defect without charge or within a reasonable period of time, you may notify the Administrator, National Highway Traffic Safety Administration, 1200 New Jersey Ave., S.E., Washington, DC 20590, call the toll-free Vehicle Safety Hotline at 1-888-327-4236 (TTY: 1-800-424-9153), or go to <http://www.safercar.gov>.

MINI recommends that you always wear your safety belt, and that all passengers are properly seated and restrained at all times.

We sincerely apologize for any inconvenience this recall may cause you; however, be assured that MINI is concerned about your safety and security.

**MINI, a division of BMW of North America, LLC**

**15V-xxx Safety Recall**  
**Model Year 2002-2005 MINI Cooper and MINI Cooper S**  
**Model Year 2005 MINI Cooper and Cooper S Convertible**  
**Electric-Hydraulic Power Steering (EHPS) System**

**Q1. Which models are affected by this recall?**

Affected are certain Model Year 2002-2005 MINI Cooper and Cooper S vehicles produced between September 2001 and February 2005, as well as Model Year 2005 MINI Cooper and Cooper S Convertibles produced between March 2004 and February 2005. You can determine if your vehicle is affected by entering either the full 17 characters or just the last 7 characters of your Vehicle Identification Number (VIN) at our site [www.miniusa.com/recall](http://www.miniusa.com/recall).

**Q2. How many vehicles in the US are affected?**

The number of vehicles affected in the US is approximately 86,000.

**Q3. What is the specific issue involving this recall?**

This recall involves the electro-hydraulic power steering system. On approximately 86,000 vehicles that have not received an appropriate repair, the electro-hydraulic power steering system may experience temporary or permanent loss of assistance due to manufacturing and field exposure issues.

**Q4. What can happen as a result of this issue?**

If there were a temporary or a permanent loss of the power steering assist function, manual steering capability would be retained, however greater steering effort would be required. This may increase the potential for loss of vehicle control.

**Q5. Why are other vehicles not affected?**

Other vehicles have a different or updated electro-hydraulic power steering system, or have already been repaired. Only USA models are affected by this recall. MINIs in other markets are addressed by market specific solutions.

**Q6. Can I become aware of this issue if it is occurring?**

Yes. The following conditions could occur:

- An increase in steering effort may be needed at low vehicle speeds,
- A small increase in steering effort may be noticed at the start of the driving cycle,
- A decrease in power assist steering may be noticed during driving, and/or
- A low battery warning message may illuminate in the instrument cluster at engine start.

**Q7. What corrective measures will be taken?**

The electro-hydraulic power steering system will be inspected by an authorized MINI dealer and components, such as the EHPS pump, fan, and/or wiring, will be replaced,

**15V-xxx Safety Recall**  
**Model Year 2002-2005 MINI Cooper and MINI Cooper S**  
**Model Year 2005 MINI Cooper and Cooper S Convertible**  
**Electric-Hydraulic Power Steering (EHPS) System**

as deemed necessary and appropriate. This recall will supersede the current MINI extended warranty program covering these components (*SI M01 01 13*). *[NOTE: The EHPS pump utilizes its own cooling fan. This is NOT the engine cooling fan.]*

**Q8. How did MINI become aware of this issue?**

MINI became aware of this issue from our quality control procedures.

**Q8a. I have heard that NHTSA was investigating this issue. Is that true?**

Yes, this issue was the subject of a NHTSA investigation with which MINI was cooperating. The investigation has concluded that the potential issue warranted a safety recall. MINI USA had previously voluntarily extended the warranty on the affected parts for up to 13 years and 150,000 miles on the same affected vehicles.

**Q9. Are you aware of any accidents or injuries associated with the recall?**

We are aware of twenty accidents and five occupant injuries that are possibly related to this issue.

**Q10. Can I continue to drive my vehicle?**

Yes. Should you require MINI Roadside Assistance, they can be reached at 1-866-646-4772. If you are not the only driver of this vehicle, please advise all other drivers of this important information.

**Q11. How will I be informed of the recall?**

You will receive an initial letter in December advising you of this issue, and then an additional letter when parts become available, requesting that you bring your vehicle to your authorized MINI dealer for service and repair. No action is required on your part when you receive the initial letter. When you receive the second letter via First Class mail, please schedule an appointment with an authorized MINI dealer to complete the repair. You can find and contact your preferred dealer at [www.miniusa.com/dealer](http://www.miniusa.com/dealer).

**Q12. How will the recall be performed?**

The electro-hydraulic power steering system will be inspected by an authorized MINI dealer and components, such as the EHPS pump, fan, and/or wiring, will be replaced as deemed necessary and appropriate.

**Q13. How long will the update take?**

The inspection and repair may take several hours. Additional time may be required depending upon the MINI dealer's schedule and the determined corrective measure.



**15V-xxx Safety Recall**  
**Model Year 2002-2005 MINI Cooper and MINI Cooper S**  
**Model Year 2005 MINI Cooper and Cooper S Convertible**  
**Electric-Hydraulic Power Steering (EHPS) System**

The inspection and repair will be performed free of charge by your authorized MINI dealer.

**Q14. How many vehicles in the US have experienced this issue?**

We are not aware of the quantity of vehicles currently affected by this condition.

**Q15. When will I receive my owner notification letter?**

You will receive an initial letter in December advising you of this issue, and then an additional letter when parts become available, requesting that you bring your vehicle to an authorized MINI dealer for service and repair. No action is required on your part when you receive the initial letter. When you receive the second letter via First Class mail, please schedule an appointment with an authorized MINI dealer to complete the repair. You can find and contact your preferred dealer at [www.miniusa.com/dealer](http://www.miniusa.com/dealer).

**Q16. Do I have to wait for my recall letter in order to have the update performed?**

Yes. We are in the process of implementing the recall campaign to ensure that the necessary parts and procedures are at the authorized MINI dealers prior to requesting that you have the repair performed.

**Q17. I see the “TREAD Act Customer Reimbursement Plan” attached to my letter. Can you explain what that is about? Am I eligible for reimbursement?**

If you have already had this repair performed at your own expense, you may be eligible for reimbursement of certain expenses that you incurred. *(Note to Customer Relations and MINI dealers: Please review and refer to the “TREAD Act Customer Reimbursement Plan” when speaking with the customer.)*