



**MONACO**  
**COACH CORPORATION**

August 18, 2004

Assoc. Administrator for Enforcement  
National Highway Traffic Safety Admin  
U.S. Dept of Transportation  
400 Seventh Street SW  
Washington DC 20590

RE: Recall 02V278 Bosch Brake

Enclosed is Monaco Coach Corporation's final Dealer and Owner notification letters for recall 02V278. Dealer notification was released August 2, 2004 and the Owner notification August 18, 2004. Please use for information on your NHTSA web site. If you have any questions, please contact me at 1-574-389-4061.

Sincerely,

Terri Tobias  
Recall Administrator  
Monaco Coach Corporation



**MONACO**  
**COACH CORPORATION**

August 02, 2004

**VEHICLE SAFETY DEFECT SERVICE BULLETIN**

**Recall Campaign 02V278000 US Units  
04-116 Canadian Units  
Monaco File # R02175**

**Re: Recall: Bosch Brake**

Dear Monaco Coach Corporation Dealer:

Monaco Coach Corporation has initiated a voluntary safety recall campaign with respect to certain Class A motorhomes manufactured from April 10, 1998 through September 3, 2002. These motorhomes are equipped with the Bosch Zero Offset Pin Slide ("ZOPS") caliper manufactured by Robert Bosch Corporation. The affected units are:

1998 – 2002 Beaver Contessa  
1998 – 2002 Beaver Monterey  
1998 – 2002 Beaver Patriot  
1998 – 2001 Beaver Patriot Thunder  
1998 – 2001 Harney Renegade  
2000 – 2003 Holiday Rambler Ambassador  
2002 – 2003 Holiday Rambler Neptune  
2000 – 2003 Monaco Knight  
2002 – 2003 Monaco Cayman  
2000 – 2002 Safari Cheetah  
1998 – 2000 Safari Continental  
1998 – 2002 Safari Sahara  
1998 – 2001 Safari Serengeti  
1999 – 2002 Safari Zanzibar

*Federal law requires that any vehicle lesser receiving this recall notice must forward a copy of this notice to the lessee within ten days.*

**The National Traffic and Motor Vehicle Safety Act provides that each vehicle that is subject to a recall campaign of this type must be adequately repaired within a reasonable time after the owner has tendered it for repair. Generally, failure to repair within sixty (60) days after the owner's first delivery for repair is assumed to be an unreasonable delay.**

**THE ISSUE**

The Bosch 66 and 73 millimeter ZOPS brake assemblies may exhibit elevated temperatures that can lead to catastrophic deterioration of the wheel end components such as bearings, races, spindles, knuckles, seals, hubs, rotors, patch bolts, calipers, brake pads, and ABS sensors, which could result in loss of proper braking or fire in a wheel area.

The symptoms of a thermal event can include a tripped ABS indicator light, pulling of the vehicle to one side or the other, deceleration, or a high drag - a condition similar to that of a vehicle struggling to make a grade, or to accelerate, or the smell of hot brakes while operating the vehicle. In addition, obvious symptoms would include smoke or fire in a wheel area.

*Holiday Rambler • Safari • Beaver • McKenzie • Royale Coach • Roadmaster*

[www.monaco-online.com](http://www.monaco-online.com)

### **AFFECTED UNITS**

Please see Attachment A for the affected unit listing for recall 02V278000 (US Units) and 04-116 (CN Units).

If our records indicate that you have any of the affected motorhomes in your inventory, you will also receive an owner notification letter identifying those units. Upon request, a list is available of the motorhomes that we currently show open in your dealer inventory.

In addition to the units listed on Attachment A, there are motorhomes that are affected by this recall that Monaco manufactured on a Workhorse chassis. These motorhomes will be included in a recall campaign initiated by Workhorse Custom Chassis Corporation ("Workhorse"), not the recall initiated by Monaco Coach Corporation.

### **THE REPAIR**

The remedy will involve an inspection of the front and rear brake calipers for corrosion and the replacement or rebuilding of the calipers as necessary. *Please review the inspection and repair/replacement protocol developed by Robert Bosch Corporation prior to starting the repair.*

Bosch is supplying Monaco with the part kits to be used in this recall campaign. At the present time, we anticipate that Bosch will make the parts available to Monaco by mid August 2004. Please fax the enclosed Recall Parts Purchase Order to 1-800-498-9478. If you have any questions concerning the repair procedure, please contact a member of our Technical Support staff toll free at 877-332-9239.

### **DEALER CAMPAIGN RESPONSIBILITY**

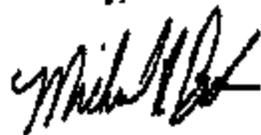
All unsold new vehicles in dealer's possession and subject to this campaign must be held and inspected/repared per the service procedure of this campaign bulletin before owners take possession of these vehicles. Dealers are to service all vehicles subject to this campaign at no charge to owners, regardless of mileage, age of vehicle, or ownership, from this time forward.

Owners of vehicles recently sold from your new vehicle inventory for which the dealer receives the owner recall notification are to be contacted by the dealer, and arrangements made to make the required correction according to the instructions enclosed with this bulletin. This could be done by mailing to such owners a copy of the applicable owner letter accompanying this bulletin.

In summary, whenever a vehicle subject to this campaign enters your vehicle inventory, or is in your dealership for service in the future, please take the steps necessary to be sure the campaign correction has been made *before* selling or releasing the vehicle.

In addition to a letter, owners will receive a recall notification/dealer claim form. The vehicle owner will present this form to you upon arrival for the service appointment. Please review the instructions on the face of the notification form and fill in the claim portion when the repair is completed.

Sincerely,



Michael R. Becker  
Customer Service Manager  
Monaco Coach Corporation

mb/tt

**ATTACHMENT A**  
**02V278900/04-116**  
**Affected Unit Listing**

**1998 Beaver Contessa motorhomes with serial number 981920813808001-152184 through 981920814008001-152328 with a VIN range of 4SLC8KP2XW1152184 through 4SLC8LP20W1152328.**

**1999 Beaver Contessa motorhomes with serial number 991920814008001-130001 through 991920813808001-130315 with a VIN range of 4SLC8LP2XX1130001 through 4SLC8KP37X1130315.**

**2000 Beaver Contessa motorhomes with serial number 001920814008001-114119 through 001920814008001-130510 with a VIN range of 4SLD9HR21Y1114119 through 4SLC2LP34Y1130510.**

**2001 Beaver Contessa motorhomes with serial number 011920814008001-130524 through 011920813908001-130707 with a VIN range of 4SLC2LP3711130524 through 4SLC2UP3711130707.**

**2002 Beaver Contessa motorhomes with serial number 021923812578200-016792 through 021620814088203-800283 with a VIN range of 1RF5465123016792 through 1RFC5465623020580**

**1998 Beaver Monterey motorhomes with serial number 981920823008001-111623 through 981920823608001-111884 with a VIN range of 4SLB6AN25W1111623 through 4SLB6BN23W1111884.**

**1999 Beaver Monterey motorhomes with serial number 991920823608001-111959 through 991920823608001-113294 with a VIN range of 4SLB7BN2XX1111959 through 4SLB7BN25X1113294.**

**2000 Beaver Monterey motorhomes with serial number 001920823608001-113339 through 001920823008001-114299 with a VIN range of 4SLB1BN28Y1113339 through 4SLB1AN22Y1114299.**

**2001 Beaver Monterey motorhomes with serial number 011920823608001-114350 through 011920823608001-114881 with a VIN range of 4SLB1BP2811114350 through 4SLB1DP211114881.**

**2002 Beaver Monterey motorhomes with serial number 021923822388200-016790 through 021620823688201-800260 with a VIN range of 1RFB5456023016790 through 1RFB2456923020166.**

**1998 Beaver Patriot motorhomes with serial number 981920834008001-152196 through 981920834008001-152346 with a VIN range of 4SLC3HP24W1152196 through 4SLC3LP24W1152346.**

**1999 Beaver Patriot motorhomes with serial number 991920834008001-152349 through 991920834008001-152886 with a VIN range of 4SLC3LP28X1152349 through 4SLC3LP30X1152886.**

**ATTACHMENT A**  
**02V278000/04-116**  
**Affected Unit Listing**

**2000 Beaver Patriot motorhomes with serial number 001920833308001-152889 through 001920833308001-153513 with a VIN range of 4SLC3FP32Y1152889 through 4SLC3FP36Y1153513.**

**2001 Beaver Patriot motorhomes with serial number 011920833408001-152994 through 011920834008001-154059 with a VIN range of 4SLC3LP31Y1152994 through 4SLD9TR3911154059.**

**2002 Beaver Patriot motorhomes with serial number 021620833788101-154023 through 021620834088205-800136 with a VIN range of 4SLC3UP3021154023 through 1RFC3464223018628.**

**1998 Beaver Patriot Thunder motorhomes with serial number 981920924008001-152193 through 981920924008001-152331 with a VIN range of 4SLD3HR27W1152193 through 4SLD3HR24W1152331.**

**1999 Beaver Patriot Thunder motorhomes with serial number 991920924008001-152367 through 991920924008001-152880 with a VIN range of 4SLD3HR21X1152367 through 4SLD3HR31X1152880.**

**2000 Beaver Patriot Thunder motorhomes with serial number 001920924008001-053228 through 001920924008001-153510 with a VIN range of 4SLD9R32Y1153228 through 4SLD9HR36Y1153510.**

**2001 Beaver Patriot Thunder motorhomes with serial number 011920924008001-153516 through 011920923908001-154011 with a VIN range of 4SLD9HR3X11153516 through 4SLD9TR3311154011.**

**1998 Harney Renegade motorhomes with serial number 981919930008001-100301 through 981919930008001-100404 with a VIN range of 4SLG7BV22X1100301 through 4SLG7BV21X1100404.**

**1999 Harney Renegade motorhomes with serial number 991919930008001-000902 through 991919930008001-101695 with a VIN range of 4SLGBV2XX1100902 through 4SLG8BN23X1101695.**

**2000 Harney Renegade motorhomes with serial number 001919930008001-101407 through 001919930008001-102661 with a VIN range of 4SLG8BN23Y1101407 through 4SLG8BN20Y1102661.**

**2001 Harney Renegade motorhomes with serial number 011919930008001-102700 through 011919930008001-103363 with a VIN range of 4SLG8BP2211102700 through 4SLG8CP2711103363.**

**ATTACHMENT A**

**02V278000/04-116**

**Affected Unit Listing**

**2000 Holiday Rambler Ambassador motorhomes with serial number 000119053693009-115511 through 000119053493209-119092 with a VIN range of 1RF120414Y2009634 through 1RF120315Y2011412 AND 001719053693009-700118 through 001719053493209-700553 with a VIN range of 1RF120410Y1008986 through 1RF120318Y1011250.**

**2001 Holiday Rambler Ambassador motorhomes with serial number 010119053693209-118788 through 010119053493009-125289 with a VIN range of 1RF12041412011311 through 1RF12031812015802 AND 011719053493209-700573 through 011719053893309-701331 with a VIN range of 1RF120319Y1011256 through 1RF12061611015377 .**

**2002 Holiday Rambler Ambassador motorhomes with serial number 020119053883200-124885 through 020119053483301-133255 with a VIN range of 1RF12061622015553 through 1RF51335422021610 AND 021719053883300-701332 through 021719053883200-703155 with a VIN range of 1RF12061021015635 through 1RF52365921021620 .**

**2003 Holiday Rambler Ambassador motorhomes with serial number 030119053883301-132088 through 030119053883301-134795 with a VIN range of 1RF62465232022033 through 1RF62465932022773 AND 031719053683301-702935 through 031719053483206-703507 with a VIN range of 1RF62345731021012 through 1RF62435231022527**

**2002 Holiday Rambler Neptune motorhomes with serial number 020119083683200-127779 through 020119083483206-133209 with a VIN range of 1RF31346422017376 through 1RF51336922021577 AND 021719083683200-702308 through 021719083283200-703117 with a VIN range of 1RF31346221018659 through 1RF51326221021461.**

**2003 Holiday Rambler Neptune motorhomes with serial number 030119083683200-132301 through 030119083083200-134651 with a VIN range of 1RF51346132020925 through 1RF51326532022650 AND 031719083483206-703026 through 031719083683200-703501 with a VIN range of 1RF51336331021226 through 1RF51346931022525.**

**2000 Monaco Knight motorhomes with serial number through 000119043693009-116105 through 000119043493209-119078 with a VIN range of 1RF120419Y2009824 through 1RF120315Y2011409 AND 001719043693009-700033 through 001719043493209-700538 with a VIN range of 1RF12041XY1008610 through 1RF120317Y1011238.**

**2001 Monaco Knight motorhomes with serial number 010119043493209-118815 through 010119043493209-125296 with a VIN range of 1RF12031312011320 through 1RF12031012015809 AND 011719043693209-700599 through 011719043493209-701372 with a VIN range of 1RF12041711011499 through 1RF12031411015558.**

**2002 Monaco Knight motorhomes with serial number 020119043683200-124932 through 020119043683301-133247 with a VIN range of 1RF12041222015634 through 1RF52345222021603 AND 021719043883300-701323 through 021719043283200-703103 with a VIN range of 1RF12061021015862 through 1RF51326X21021417.**

**ATTACHMENT A**  
**02V278000/04-116**  
**Affected Unit Listing**

**2003 Monaco Knight motorhomes with serial number 030119043683301-131481 through 030119043483206-134613 with a VIN range of 1RF62445832022069 through 1RF62435632022704 AND 031719043683301-702987 through 031719043483206-703545 with a VIN range of 1RF62345031021109 through 1RF62435031022638.**

**2002 Monaco Cayman motorhomes with serial number 020119073483200-127969 through 020119073683200-133215 with a VIN range of 1RF31336422017489 through 1RF51346222021578 AND 021719073683200-702160 through 021719073683200-703113 with a VIN range of 1RF31346721018155 through 1RF51346421021460.**

**2003 Monaco Cayman motorhomes with serial number 030119073483206-132285 through 030119073683200-134659 with a VIN range of 1RF51336632020923 through 1RF51346032022651 AND 031719073683200-703059 through 031719073083200-703547 with a VIN range of 1RF51346231021264 through 1RF51326931022639.**

**2000 Safari Cheetah motorhomes with serial number 001919763708001-145026 through 001919763708001-145575 with a VIN range of 4SLA7BN21Y1145026 through 4SLA7BN21Y1145575.**

**2001 Safari Cheetah motorhomes with serial number 011919763708001-145584 through 011919760008000-146205 with a VIN range of 4SLA7BN2511145584 through 4SLA8CN2321146205.**

**2002 Safari Cheetah motorhomes with serial number 021719763448201-146199 through 021719763748201-701923 with a VIN range of 4SLA8CN2121146199 through 1RFA5446723017318.**

**1998 Safari Continental motorhomes with serial number 981919984008001-111536 through 981919984008001-111839 with a VIN range of 4SLA0GP23W1111536 through 4SLC0LP26X1111839.**

**1999 Safari Continental motorhomes with serial number 991919984008001-111782 through 991919984008001-114590 with a VIN range of 4SLD3HR28W1111782 through 4SLD3HR21X1114590.**

**2000 Safari Continental motorhomes with serial number 001919984008001-112557 through 001919984008001-114368 with a VIN range of 4SLD3HR24X1112557 through 4SLC3LP27Y1114368.**

**1998 Safari Sahara motorhomes with serial number 981919993508001-110751 through 981919993008001-111929 with a VIN range of 4SLB7BN25W1110751 through 4SLB7AN20W1111929.**

**1999 Safari Sahara motorhomes with serial number 991919993508001-111935 through 991919993008001-114593 with a VIN range of 4SLA7BN22X1111935 through 4SLA7AN21X1114593.**

**ATTACHMENT A**

**02V278000/04-116**

**Affected Unit Listing**

**2000 Safari Sahara motorhomes with serial number 001919993508001-112439 through 001919993508001-114371 with a VIN range of 4SLA7BN26X1112439 through 4SLA1BN24Y1114371.**

**2002 Safari Sahara motorhomes with serial number 021719993978201-701962 through 021719993758301-702998 with a VIN range of 1RFB2465423017701 through 1RFB2455323021157.**

**1998 Safari Serengeti motorhomes with serial number 981919973708001-111257 through 981919974008001-111932 with a VIN range of 4SLA8EN2KW1111257 through 4SLA8GN26W1111932.**

**1999 Safari Serengeti motorhomes with serial number 991919974008001-111941 through 991919974008001-114599 with a VIN range of 4SLC0GP29X1111941 through 4SLC0LP25X1114599.**

**2000 Safari Serengeti motorhomes with serial number 001919974008001-112512 through 001919974008001-114347 with a VIN range of 4SLC0LP21X1112512 through 4SLA0GW29Y1114347.**

**2001 Safari Serengeti motorhomes with serial number 011919974008001-114374 through 011919973708001-114863 with a VIN range of 4SLA0GW2411114374 through 4SLA0EW2211114863.**

**1999 Safari Zanzibar motorhomes with serial number 991919773808001-100361 through 991919773808001-101755 with a VIN range of 4SLG1EV25X1100361 through 4SLG1EV29X1101755.**

**2000 Safari Zanzibar motorhomes with serial number 001919773808001-101347 through 001919773808001-102780 with a VIN range of 4SLG1EN23Y1101347 through 4SLG1EN2071102780.**

**2001 Safari Zanzibar motorhomes with serial number 011919773808001-102706 through 011919773808001-103402 with a VIN range of 4SLA1EP2911102706 through 4SLA1EP2511103402.**

**2002 Safari Zanzibar motorhomes with serial number 021719773288201-103405 through 021719773888201-702355 with a VIN range of 4SLA1AP2821103405 through 1RFA5466623018814.**



**MONACO**  
COACH CORPORATION

August 18, 2004

**VEHICLE SAFETY DEFECT SERVICE BULLETIN**

**Recall Campaign No. 02V278000**

**Monaco File # R02175**

**Re: Safety Recall – Bosch Brakes**

Dear Owner:

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

Monaco Coach Corporation ("Monaco") has decided that a defect which relates to motor vehicle safety exists in certain Class A motorhomes manufactured from April 10, 1998 through September 3, 2002. The affected motorhomes are equipped with the Bosch Zero Offset Pin Slide ("ZOPS") caliper manufactured by Robert Bosch Corporation. The affected Class A motorhomes are:

1998 - 2002 Beaver Contessa  
1998 - 2002 Beaver Monterey  
1998 - 2002 Beaver Patriot  
1998 - 2000 Beaver Patriot Thunder  
1998 - 2001 Harney Renegade  
2000 - 2003 Holiday Rambler Ambassador  
2002 - 2003 Holiday Rambler Neptune  
2000 - 2003 Monaco Knight  
2002 - 2003 Monaco Cayman  
2000 - 2002 Safari Cheetah  
1998 - 2000 Safari Continental  
1998 - 2002 Safari Sahara  
1998 - 2001 Safari Serengeti  
1999 - 2002 Safari Zanzibar

According to our information, your motorhome identified on the enclosed form is affected. Federal law requires that any vehicle lessor receiving this recall notice must forward a copy of this notice to the lessee within ten days.

The Bosch 66 and 73 millimeter ZOPS brake assemblies may exhibit elevated temperatures that can lead to catastrophic deterioration of the wheel end components such as bearings, races, spindles, knuckles, seals, hubs, rotors, patch bolts, calipers, brake pads, and ABS sensors, which could result in loss of proper braking or fire in a wheel area.

The symptoms of a thermal event can include a tripped ABS indicator light, pulling of the vehicle to one side or the other, deceleration, a high drag- a condition similar to that of a vehicle struggling to make a grade or to accelerate, or the smell of hot brakes while operating the vehicle. In addition, obvious symptoms would include smoke or fire in a wheel area.

The remedy consists of an inspection and repair/replacement protocol developed by Robert Bosch Corporation. Bosch is supplying Monaco with the part kits to be used in this recall campaign.

The remedy will involve an inspection of the front and rear brake calipers for corrosion and the replacement or rebuilding of the calipers as necessary. The recall repair will be performed at no cost to you. If you paid to have this repair completed prior to receiving this letter, you may be eligible for a reimbursement of a portion or all of your remedy costs.

You may contact your Monaco Coach Corporation dealer to arrange for a service appointment. *If you need assistance in locating a service center to perform this recall, please contact our Customer Service Number 877-466-6226 or the Recall Hotline 800-685-6545.* The instructions for making this correction have been sent to your dealer. At the present time, we anticipate that Bosch will make the parts available to Monaco by mid-August 2004.

The labor time necessary to perform this recall campaign is approximately 1 to 5 hours, depending on the exact repair required after inspection of the calipers. Please ask your dealer if you wish to know how much additional time may be needed to schedule and process your motorhome.

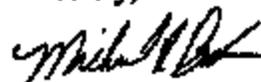
The enclosed Recall Notification Form identifies your motorhome and will serve as an authorization and claim form to have the correction made. Presentation of this form to your dealer will assist in making the necessary correction in the shortest possible time. If you have sold or traded your motorhome, or for any reason cannot have this recall service performed, please let us know by completing the postage paid reply card and returning it to us promptly.

Your Monaco Coach Corporation dealer is best equipped to provide service to ensure your motorhome is corrected as promptly as possible. If, however, you take your motorhome to your dealer on the agreed service date and the dealer does not remedy this condition on that date or within three (3) days, please call our Recall Hotline number (800) 685-6545.

If, after contacting your dealer, and the recall assistance service line, you believe Monaco Coach Corporation has failed or has been unable to remedy the noncompliance without charge or there has been an unreasonable delay in securing the remedy, you may submit a complaint to the Administrator, National Highway Traffic Safety Administration, 400 Seventh Street, SW, Washington, DC 20590 or call the toll free Auto Safety Hotline at (888) 327-4236.

We apologize for this inconvenience. However, we have taken this action in the interest of your safety and continued satisfaction with your motorhome.

Sincerely,



Michael R. Becker  
Customer Service Manager  
Monaco Coach Corporation

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## **RECALL REPAIR PROCEDURES**

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Products: 1998 - 2003  Monaco,  Holiday Rambler,  Safari and  
 Beaver Class A Motorhomes with hydraulic brakes.

### **Recall 02V278000 - 04-116 Bosch Brake System**

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#### **Appendix**

A. Caliper Replacement Procedure .....	17
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**- Read Complete Procedure Before Starting First Inspection -**

**OVERVIEW:** This procedure only applies to the defined vehicle population in recall number 02V278000 - 04-116 and identifies the steps required to perform an inspection of the caliper and anchor-plate. Based on the findings of the inspection, a repair or replacement of certain components may be necessary. The defined field remedy that follows is only applicable to the vehicles contained in this recall.

The table that follows is a summary of the procedure to be followed, the tools required, and if necessary (based on the findings of the inspection), the service kit required.

Step Number	Procedure	Tools and Supplies Needed (Items in <i>Italics</i> are contained in service kits)	Service Kit Required	Service Kit Contents*
<b>VEHICLE IDENTIFICATION SECTION</b>				
1	1. Check VIN plate for build date code.	None	None	_____
<b>VEHICLE PREPARATION</b>				
2	1. Lift and secure vehicle, remove wheels and tires.	1. Shop hoist and stands. 2. Tools per vehicle manufacturer's service manual.	None	_____
<b>CALIPER IDENTIFICATION SECTION</b>				
3	1. Identify caliper assembly to verify Bosch OE.	None	None	_____
<b>CALIPER INSPECTION</b>				
4-8	1. Remove selected fasteners.  2. Swing caliper down and support on stand. 3. Clean piston / housing area. 4. Extend pistons.	1. Wrench/socket: 1.1 21mm socket for Caliper mounting bolt  1.2 1/2 inch socket for brake line bracket bolt 1.3 7/16 inch tube wrench for caliper inlet tube fitting  1.4 7/16 inch tube wrench for bleed screw 2. Jack stand to support caliper assembly for on vehicle service 3. Large flat bladed screw driver or suitable pry bar. 4. Flash light or trouble light.  5. Wire brush (from Generic Tool Kit). 6. Spacer block (from Generic Tool Kit).	Generic Tool Kit <b>NOTE</b> Only one tool kit will be supplied per shop at no charge	1. Larger wire brush  2. Wire bore brush  3. Spacer block 4. Piston / boot insertion tool (one each size for 2x68mm and 2x73mm pistons/boots)
10	1. Inspect and verify caliper date code.	None	None	_____
11-18	1. Remove piston boots 2. Clean and dry piston and housing opening 3. Inspect housing bore opening	1. Flat bladed screw driver 2. Isopropyl or denatured alcohol 3. Clean lint free shop cloths 4. Flash light or inspection light 5. Shop air	None	_____
17-25	1. Inject Disc Brake Corrosion Grease onto piston and housing area 2. Install new piston boots  3. Push pistons into housing bore	1. <i>Small acid brush for grease distribution (from service kit).</i> 2. Piston / boot insertion tool (from Dealer Kit)  2.1 2x73-0 204 102 033 2.2 2x68-0 204 102 034 3. 10 inch "C" clamp 4. <i>Spacer block (from Generic Tool Kit)</i>	Piston Boot Replacement Kit (for 2x73mm) OR (for 2x68mm)	1. Piston boots  2. Caliper bore grease packet (Disc Brake Corrosion Control Grease)  3. Acid brush
Appendix A	Caliper Replacement	1. Cap for hydraulic flex hose 2. Wrench and sockets 2.1 21mm socket for Caliper mounting bolt 2.2 1/2 inch socket for Brake line bracket bolt 2.3 7/16 inch tube wrench for caliper inlet tube fitting 3. 7/16 inch tube wrench for bleed screw	Caliper Replacement Kit (for 2x73mm) OR (for 2x68mm)	1. Caliper assembly  2. Bleed screw

ANCHOR PLATE SECTION				
26	1. Inspect caliper mounting bolt.	None	None	To determine if ZOPS or ZOH-T design level.
27 - 33	2. Remove caliper and secure.	1. Wrench and sockets 1.1 21mm socket for Caliper mounting bolt 2. Isopropyl or denatured alcohol 3. Clean lint free shop clothes 4. Shop air	None	
34 - 38	Reuse guide pins 1. Clean and grease anchor plate bore. 2. Grease and install new guide pin boot. 3. Grease & install guide pin.	1. Clean lint free shop clothes 2. Denatured or isopropyl alcohol 3. Small wire bore brush (from Generic Tool Kit) 4. Shop air	Guide Pin Boot Replacement Kit	1. Caliper guide pin boots 2. Disc brake guide pin / boot grease 3. Acid brush
39 - 47	1. Reusing caliper mounting bolts.  2. Re-install caliper assembly. 3. If ZOPS, check that caliper aligns on guide pins.	1. Wrench and sockets 1.1 21mm socket for Caliper mounting bolt 1.2 1/2 inch socket for brake line bracket bolt 1.3 7/16 inch tube wrench for caliper inlet tube fitting 1.4 7/16 inch tube wrench for bleed screw 2. Torque wrench (150 Nm minimum) 3. Flat blade screw driver 4. Loctite® 2440 thread adhesive	None	
NA	1. Bleed brakes.	1. 7/16 inch tube wrench for bleed screw 2. DOT3 or DOT 4 brake fluid	None	Refer to vehicle manufacturer's service manual

### IMPORTANT NOTES AND REMINDERS

- Read complete procedure before beginning inspection.
- Due to brake fluid reservoir volume, perform only one caliper inspection at a time.
- Use only isopropyl or denatured alcohol for cleaning.
- Use only the recommended greases and apply in the proper location.
- Only one tool kit will be supplied at no charge DO NOT discard.

### CAUTIONS & WARNINGS

- **Follow all shop or industry recognized safety practices. Failure to do so could result in damage to property or cause personal injury.** The following are some key reminders, but following accepted safety practices is not limited to this list.
  - Do not work under or around a vehicle supported by mechanical or hydraulic jacks. Vehicle must be supported by suitable floor stands.
  - Always wear suitable eye protection when working under or around a vehicle.
  - Always wear a respirator when working around brakes or brake lining dust.
- **NO** commercially available brake cleaners are to be used, otherwise damage could occur to the rubber components resulting in loss of braking.
- Use of greases, other than those specified, could damage rubber components resulting in the loss of braking.

<p>1. Check the vehicle build date code found on the vehicle identification number plate (VIN Plate), and date stamp on the back of the caliper. (Refer to step 10 for location)</p> <p>Only vehicles having a build date as defined by the Vehicle Manufacturer are included in this recall.</p> <p><b>DO NOT PROCEED WITH THIS MODEL INSPECTION PROTOCOL IF THE VEHICLE OR CALIPER BUILD DATE DOES NOT MATCH WITH VEHICLE MANUFACTURER'S BUILD DATE INFORMATION.</b></p>	<p>Record caliper build dates and include on the warranty claim. Claims received with out build dates will not be processed.</p> <p>LF _____</p> <p>RF _____</p> <p>LR _____</p> <p>RR _____</p> <p>Note: if date stamp is not legible, record "NOT ABLE TO READ"</p>
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## VEHICLE PREPARATION

<p>2. Position vehicle on suitable floor stands and remove wheel (tire and rim)</p>	<p style="text-align: center;"><b>WARNING</b></p> <p><b>A JACK MUST NEVER BE USED ALONE TO SUPPORT A VEHICLE WHILE UNDER-CHASSIS SERVICE IS BEING PERFORMED. THE JACK MAY LOWER OR SLIP AND SERIOUS PERSONAL INJURY COULD RESULT. ALWAYS SUPPORT VEHICLE WITH SUITABLE FLOOR STANDS.</b></p>
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## CALIPER IDENTIFICATION

<p>3. Inspect and verify that the caliper on the vehicle is Bosch Original Equipment and not a remanufacture or non-Bosch product. (Bosch does not remanufacture calipers).</p>	
<p><b>Remanufactured (Reman) Caliper Assembly</b></p>  <p>04R707</p> <ol style="list-style-type: none"> <li>1. Reman calipers will be identified. Typical locations for the "Reman" stamps are shown above.</li> <li>2. Reman calipers have light gray piston boots (Bosch OE boot is dark gray)</li> <li>3. Reman calipers typically are not plated (Bosch OE caliper has black plating)</li> </ol>	<p><b>Non-Bosch Product (Clones or Knock-Offs)</b></p>  <p>04R708</p> <ol style="list-style-type: none"> <li>1. Non-Bosch products have cast in code numbers, normally 4-digits, as shown (Bosch OE caliper has none or "66" or "73")</li> <li>2. Non-Bosch products will not have the Bosch 7-digit part-# cast into housing (Bosch OE caliper has "4153269" for 2x66mm or "41513222" for 2x73mm sizes).</li> <li>3. Non-Bosch products will not have a 4-digit code cast into housing lower left area (Bosch OE caliper has this marking).</li> </ol>

## **Caliper Inspection**

4. Remove any brake hose retaining fasteners as applicable. This allows the caliper to be rotated for piston boot inspection.

**NOTE:** Do not remove brake hose at the caliper inlet.



04R709

5. Retract pistons. Place suitable pry bar on outboard side of rotor and pull caliper housing outboard (see arrow direction) until pistons are pushed back into housing.



04R710

6. Remove upper (top) caliper mounting bolt securing the caliper to the anchor plate.



04R711

7. Rotate the caliper assembly away from rotor and support with suitable stand for inspection.

**NOTE:** Do Not Allow Caliper To Hang By Hose.

Pad removal is not required, however if they are removed, be sure to mark them in some manner (i.e. left front inner, left front outer, right front inner, etc.) so that later they are reinstalled in the same location.

**NOTE:** Do not mark on pad face. Keep pad face free of any grease or foreign materials.



04R712

8. With wire brush provide in the generic tool kit, remove loose rust, dirt and road debris from caliper underside near and beneath both pistons, and on caliper housing around the pistons and boots. Carefully blow away any loose debris with low pressure shop air.



04R713

9. Place spacer block provided in the generic tool kit into caliper housing between pistons and caliper legs. Depress brake pedal slowly and just enough to extend pistons to contact spacer.



04R714

**CAUTION:** Keep hands away from pistons when brake pedal is depressed - hands or fingers may be injured.

Use only block thickness indicated. Otherwise pistons will extend too far and a high pressure brake fluid leak could occur resulting in personal injury.

Always wear safety glasses.

If pistons are extended too far, **DO NOT** attempt to re-install pistons. Remove brake hose at the caliper, cap brake line and remove caliper assembly. Proceed to "Caliper Replacement Procedure" in Appendix A.

#### 10. Inspections and Checks:

If the caliper date code is higher than 1274A, 1274B, 1274C. (This date code represents October 1, 2001.

- **Then** - Proceed to "**ANCHOR PLATE INSPECTION**" Section.
- **Otherwise** continue to next step.

**NOTE:** The caliper housing may need to be brushed with a wire brush from the generic tool kit to expose the date code. If caliper date code is not legible, and vehicle build date code in step-1 is before date-A, then proceed to next step. Otherwise, proceed to "Anchor-Plate Inspection" Section

#### Caliper Date Code

Caliper date code is stamped on the back near the center of the caliper housing and has 4 numbers and a letter. The 1st number is the year, the next 3 are the day of the year, and the letter represents the shift of production.

(For Example: 9120A : "9" means year 1999

"120" means the 120th day of the year

"A" means first shift (The letters "B" or

"C" may appear for second or third shifts)



04R716

11. Remove both piston boots with a flat bladed screwdriver and discard.

12. Using isopropyl or denatured alcohol clean exposed pistons and visible caliper housing bore surfaces.

**CAUTION:** No commercially available brake cleaners are to be used, otherwise part could be damaged and result in the loss of braking.

13. Use clean lintless type shop cloth and wipe pistons and caliper housing bore area.

14. CAREFULLY air dry pistons and caliper bore area with low pressure shop air.

**CAUTION:** Safety glasses and protective clothing is recommended.

15. Using shop light or flashlight, inspect caliper housing bore near piston area for corrosion. Inspect entire circumference around piston. Also inspect piston for any indication of deterioration such as cracks or crumbling. Inspect to be sure that all components are dry before proceeding.



04R716



04R717



04R718

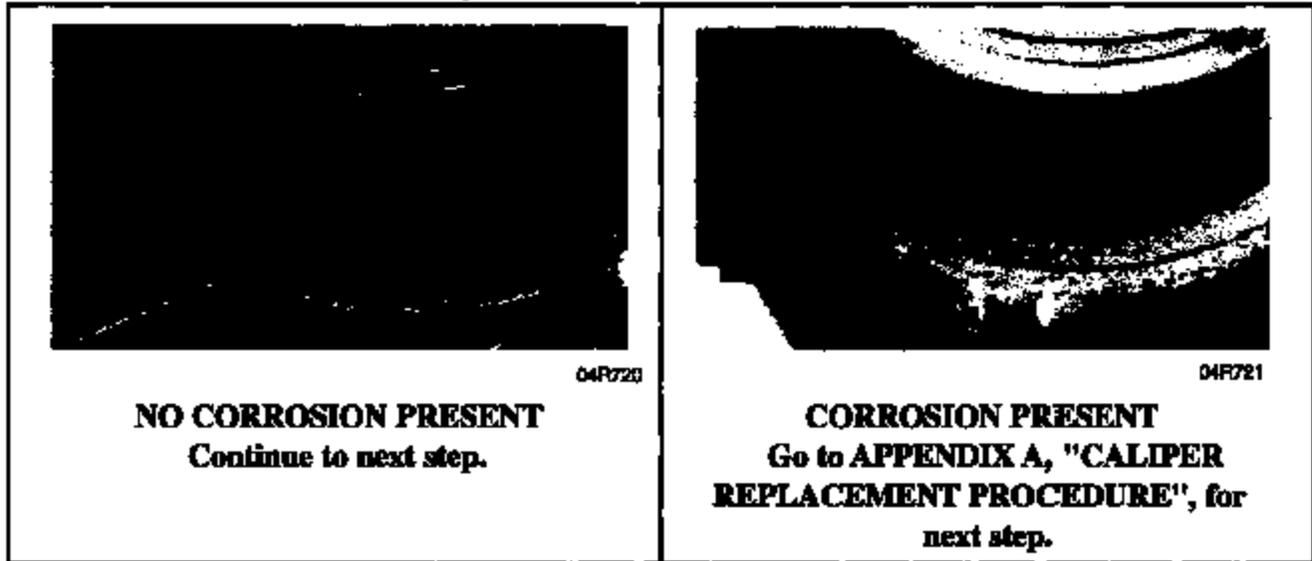


04R718

16. Inspect caliper housing for seal land corrosion.

**NOTE:** The pistons are made from a phenolic material which is naturally brown in color and should not be confused with any corrosion color. Several photos in this procedure illustrate the brown color of the piston.

### Examples of Corrosion Levels



17. Using acid brush from piston boot replacement kit, lubricate pistons and caliper housing bore area with Disc Brake Corrosion Control Grease, packet p/n 0 204 262 951.



18. Place a small amount of Disc Brake Corrosion Control Grease onto the piston.

**NOTE:** One packet is to be used for both pistons and bores of one caliper.



19. **START** at the caliper housing piston opening as shown and work up the piston including the piston boot groove. Spread grease uniformly.



20. END at the piston boot groove as shown.

**WARNING:** Use care while installing grease to avoid getting any debris on clean greased surfaces.



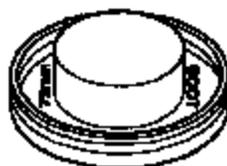
21. Inspect new piston boots provided in the piston boot replacement kit for cuts, tears or damage. If damaged, discard. Carefully install new piston boots.



**NOTE:** While the pistons are still extended, make sure that the boot bead is fully seated into piston boot bead groove.



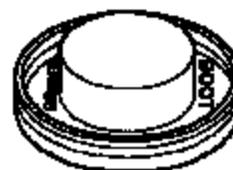
22. Carefully move the free end of the boot back to the bead end of the piston so that the boot folds up correctly. Rotate the piston boot to firmly seat in piston boot bead in groove.



**73mm Piston Boot Insertion Tool.**

Part Number: 0 204 102 033

(Similar Part: ZTSE4418)



**66mm Piston Boot Insertion Tool.**

Part Number: 0 204 102 034

(Similar Part: ZTSE4417)

23. To push in the piston and piston boot, install the insertion tool from the generic tool kit onto piston boot.

**NOTE:** Piston / piston boot installation tool must be properly oriented.



24. Insert spacer block in front of one piston to keep it in place. Center piston boot insertion tool onto opposite piston and boot. Slowly tighten C-clamp to insert this piston completely into housing.



25. Move spacer block to the inserted piston position to keep the inserted piston from being pushed out when the second piston is being pushed into the bore.

Center piston boot insertion tool onto opposite piston and boot. Slowly tighten C-clamp to insert the 2nd piston completely into housing.



**THIS COMPLETES THE CALIPER ASSEMBLY SERVICE PROCEDURE PORTION OF THE FIELD REMEDY. CONTINUE ON TO ANCHOR PLATE INSPECTION.**

## **ANCHOR PLATE INSPECTION**

26. Inspect the caliper mounting bolt and slide pins.



**ZOPS Bolt:** heavy hex head, yellow in color, course thread, thread patch (M12x1.75x30)

**If the bolt is course thread as shown, and neither pin has a notch in the mounting flange, Proceed to next step.**



**ZOH-T Bolt:** flange head, dark in color, fine thread, may have thread patch as shown (M12x1.25x40).

**If the bolt is fine thread as shown, and one pin DOES have a notch in the mounting flange, Proceed to step 35**

27. Remove lower caliper mounting bolt and secure caliper.

**CAUTION: Do Not Allow Caliper To Hang By Hose**

28. Remove upper and lower caliper mounting pins and pin boots from anchor plate.

29. **SPECIAL NOTE:** On some rear axle applications, the caliper mounting pin (typically the uppermost pin) can not be removed without removal of the anchor plate.



30. Inspection of REAR axle guide pin which cannot be readily removed from the anchor plate  
**(NOTE: For REAR axle guide pins which can be removed, continue to step 31).**

Pull the caliper guide pin out as far as possible and cut off boot.

Use clean cloth dampened with isopropyl or denatured alcohol to clean pin and air dry with low pressure shop air.

**CAUTION: DO NOT use liquid alcohol directly on guide pin - it may collect in anchor plate bore and degrade guide pin lubricating grease.**

Inspect caliper guide pin for corrosion using chart in step 33.

31. For all caliper guide pins that can be removed, remove and discard guide pin boots.



32. Using isopropyl or denatured alcohol clean and wipe pins dry with clean shop cloth.

**IMPORTANT NOTE: Some pin polishing is expected during normal use and will appear as shiny areas as shown. Pins with polishing may be reused.**



32. Inspect for caliper guide pin corrosion.

**This chart is to be used for all front and rear axle guide pin inspections.**



**NO Corrosion**  
If visual inspection reveals  
NO corrosion.

Continue to next step.



**LIGHT Corrosion**  
IF visual inspection reveals  
light corrosion.

Use 220 grit sandpaper to  
clean exposed pin surface  
for light to moderate  
corrosion and re-clean pin  
with isopropyl or denatured  
alcohol and air dry.

Continue to next step.



**HEAVY Corrosion**  
IF visual inspection reveals  
heavy corrosion:

- For all pins that can be removed, install new pins from guide pin replacement kit and continue to next step.
  - For pins that can NOT be removed, refer to vehicle manufacturer's service manual for pins replacement.
- NOTE:** If pins are stuck in the bore on either front or rear axle, replace anchor plate assembly per vehicle manufacturer's service manual. Continue to re-install caliper assembly, step 38.

**33. Disc Brake Guide Pin/Boot Grease, Part No. 0 204 302 291** for the anchor plate pin bore, caliper mounting pin and pin boot is contained in a two chamber packet.

One chamber of the grease packet is used for each anchor plate bore / guide pin / pin boot combination.



**34. or REAR AXLE guide pin which can NOT be removed.**

A. Lubricate guide pin.

B. Carefully install new boot over pin flange and seat boot into groove.

C. Push guide pin in into anchor plate bore and seat boot onto anchor plate boot groove.

**NOTE:** Verify that boot was not torn during installation.

Continue for rear axle lower guide pin.



35. Cleaning and lubrication of anchor plate bores. Using round wire brush found in generic tool kit and isopropyl or denatured alcohol, wire brush both upper and lower anchor plate pin bores. Clean out any remaining loose residue with a clean shop cloth or swab. Carefully, air dry pin bores.



36. Only for pins removed from anchor plate bores, use the acid brush from the guide pin boot replacement kit, carefully grease anchor plate bore (Step 37A), caliper mounting pins (Step 37B), and pin boot beads (Step 37C) with Disc Brake Guide Pin / Boot grease.



Step 37A - Lubricate anchor plate bore.



Step 37B - Lubricate both guide pins.



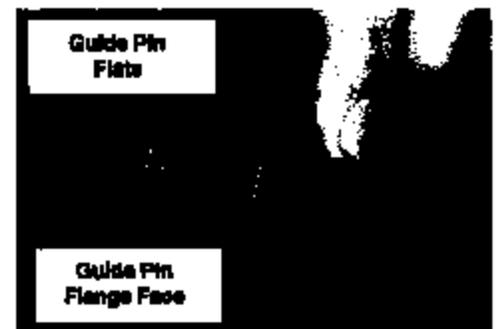
Step 37C - Lubricate Pin boots.

37. Assemble pin boots onto pins and re-install into anchor plate.

**NOTE:** It's very important that the pins are installed in the correct location and the proper bolt torque is used. See "Chart: ZOPS and ZOH-T Caliper Guide Pins & Mounting Bolts" that follows.

Align the leading and trailing pin flange flats so that they are parallel to facilitate caliper installation.

**NOTE:** After re-inserting guide pins and boots, clean pin flange face and internal threads with clean cloth and denatured or isopropyl alcohol. Air dry.

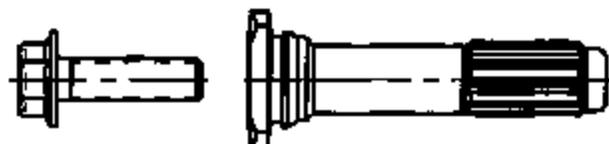


38. Chart: ZOPS and ZOH-T Caliper Guide Pins & Mounting Bolts: IMPORTANT Identification, Installation, and Torque Information)

**ZOPS Caliper guide pin and mounting bolt**  
before to June 3, 2002



**ZOH-T Caliper guide pins and mounting bolt**  
after June 3, 2003



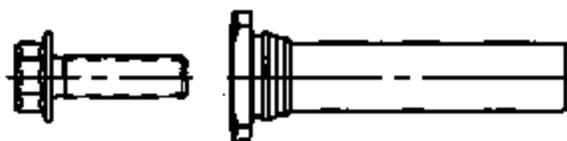
### **ZOPS Leading AND Trailing Guide Pin**

- The same guide pin is used for both leading and trailing anchor plate positions.
- Bolt: M12x1.75x30 - Heavy hex head, course thread, yellow in color (see below).



- Bolt torque: 70-80 lb-ft (95-108 Nm)

### **ZOH-T Trailing Guide Pin**



### **ZOH-T Leading Guide Pin**

- Unique guide pins for leading and trailing anchor plate positions.
- Bolt: M12x1.25x40 - Flange head, fine thread, dark in color (see below).

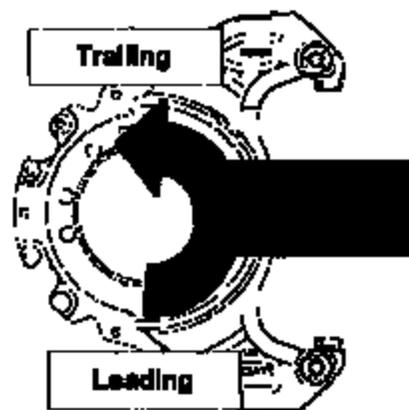


- Bolt torque: 93-107 lb-ft (126-145 Nm)

**NOTE: BOLT TORQUE IS DIFFERENT BETWEEN ZOPS AND ZOH-T**

**NOTE: It's important to know the anchor plate leading & trailing position because:**

- For both ZOPS and ZOH-T, the leading bolt is always tightened first.
- For ZOH-T, the guide pins must be in the proper position. The rubber bushed guide pin is always installed in the trailing position.
- ZOPS or ZOH-T pins will fit in any anchor-plate, as long as BOTH pins are of the same type (Note - The 2 pins per anchor plate must both be ZOPS or both be ZOH-T. They must not be intermixed.)

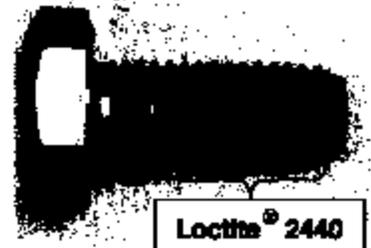


Definition of leading and trailing positions:

- Rotor rotation is for a vehicle moving forward.
- View rotor from outside of vehicle.

**Re-using caliper mounting bolts.**

39. When re-using the caliper mounting bolts, wire brush the lower half of both caliper mounting bolts and clean with isopropoyl or denatured alcohol and air dry.
40. On the lower half of each bolt, apply liquid Loctite® 2440 around the circumference of the bolt.



**This procedure does not apply when using new bolts in guide pin replacement kit because Loctite® thread patch is already applied.**

41. Position caliper assembly over leading and trailing pins.
42. Install both LEADING and TRAILING caliper mounting bolts FINGER TIGHT.
43. Torque the LEADING bolt completely to torque value indicated in step 38.

- For ZOPS bolt & pin, use a medium to large flat blade screwdriver under the pin flange to keep it parallel to the caliper abutment during bolt tightening.
- For ZOH-T bolt & pin, screwdriver is Not required.



**CAUTION: Do Not Allow Screwdriver To Puncture Boot.**

44. Torque TRAILING bolt completely using same procedure as above.
45. Re-assemble brake hose retaining fastener and refer to vehicle manufacturer's service manual for recommended torque.

**NOTE: If installing new caliper, install brake line to caliper inlet and torque to vehicle manufacturer's recommended value.**

- 46a. For ZOH-T (see step 38 for important details): Because the ZOH-T caliper suspension has a rubber bushed trailing pin, this step is not necessary and the inspection and repair procedure for this wheel end is complete.

- 46b. For ZOPS (see step 38 for important details): Check that the caliper slides on guide pins. Place hands on the caliper as shown, push / pull caliper and check that the caliper assembly slides on the guide pins.



- If the ZOPS caliper assembly slides on guide pins - **STOP. Inspection and repair procedure for this wheel end is complete.**
- If the ZOPS caliper assembly **does NOT slide** on guide pins, continue to next step.

**47. ZOPS caliper assembly DOES NOT slide on guide pins:**

- Remove upper caliper mounting bolt (Note: this may be leading or trailing bolt depending on caliper mounting orientation on vehicle).
- Rotate caliper assembly out slightly.
- Rotate upper caliper guide pin 180 degrees (½ turn).
- Clean bolt and re-apply Loctite® 2440 to bolt.
- Reinstall upper caliper mounting pin bolt using the flat bladed screwdriver (same as step 43) and torque to the correct torque.
- Repeat check that the caliper assembly slides on guide pins.
- If caliper still does not slide, install new caliper guide pins from the appropriate service kit.



## Appendix A Caliper Replacement Procedure

1. Remove and cap inlet brake line hose.
2. Remove lower caliper mounting bolt.
3. Replace pads (if removed)  
**NOTE:** Since the pads will typically be reused, be sure to reinstall them in the same position they were removed from as indicated by the markings from step 7 (i.e. if marked left front inner at step 7, then reinstall in left front inner position, etc.) . Be sure pad face is free of any grease or foreign material.
4. Procure new caliper replacement service kit.  
**NOTE:** Be sure to install the proper caliper size, either 2x66mm or 2x73mm.
5. Return to Step 26 - "Anchor Plate Inspection"  
**NOTE:** The new caliper is installed after the anchor plate inspection has been completed.

---

**Parts: U.S.A. 02V278000 / Canadian 04-116**

**Monaco Part # 02V278000A  
04-116A**

**Bosch Kit# 0204062359**

**Tool Kit (Order 1 per shop)**

**Contents:**

Larger wire brush

Wire bore brush

Spacer block

Piston / boot insertion tool (one each size for 2x66mm and 2x73mm pistons/boots)

**Monaco Part # 02V278000B (66mm)  
04-116B (66mm)**

**Bosch Kit# 0204062350**

**Monaco Part# 02V278000C (73mm)  
04-116C (73mm)**

**Bosch Kit# 0204062351**

**Seal Replacement Kit (Order 1 per caliper)**

**Contents:**

Piston boots

Caliper bore grease packet (Disc Brake Corrosion Control Grease)

Acid brush

**Monaco Part# 02V278000D  
04-116D**

**Bosch Kit# 0204062357**

**Pin Kit - Includes Boot Kit (Order one per caliper)**

**Monaco Part# 02V278000G  
04-116G**

**Boot Kit ONLY# 0204062356**

**Boot Kit ONLY (Order 1 per caliper)**

**Contents:**

Caliper guide pin boots

Disc brake guide pin / boot grease

Acid brush

**Monaco Part# 02V278000E (66mm)  
04-116E (66mm)**

**Bosch Kit# 0204062354**

**Monaco Part# 02V278000F (73mm)  
04-116F (73mm)**

**Bosch Kit# 0204062355**

**Caliper Kit (Order 1 per wheel)**

**Contents:**

Caliper assembly

Bleed screw

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**Please complete the enclosed Recall Purchase Order and fax to 1-800-498-9478.**

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**Warranty:** Submit a warranty claim for each unit repaired using the following Labor Operation Code and Labor Hours for the appropriate procedure. Please verify whether the coach is under the U.S.A. or Canadian recall.

**\* NOTE:** *several Safari & Beaver units will have rail slide rear brake calipers which require no action to be taken. Please lower procedure B & C below by 1 hr each for these units.*

### **U.S.A.**

**(A) Inspection only**

**Labor Operation Code: 22 37 19 55 RC**

**Labor Hours: .5 Hr**

**(B) Inspection, clean, grease pistons & replace seals**

**Labor Operation Code: 22 37 01 43 RC**

**Labor Hours: 2.75 Hr**

**Fronts Only: 1.75Hr**

**(C) Inspect & replace caliper**

**Labor Operation Code: 22 37 02 43 RC**

**Labor Hours: 4.75 Hr**

**Fronts Only: 3.75Hr**

### **CANADIAN**

**(A) Inspection only**

**Labor Operation Code: 22 38 19 55 RC**

**Labor Hours: .5 Hr**

**(B) Inspection, clean, grease pistons & replace seals**

**Labor Operation Code: 22 38 01 43 RC**

**Labor Hours: 2.75 Hr**

**Fronts Only: 1.75Hr**

**(C) Inspect & replace caliper**

**Labor Operation Code: 22 38 02 43 RC**

**Labor Hours: 4.75 Hr**

**Fronts Only: 3.75Hr**

# MONACO COACH CORPORATION

## RECALL PARTS PURCHASE ORDER

Recall 02V278000 - 04-116  
Bosch Brake System

Confirming Order Number: \_\_\_\_\_

Date: \_\_\_\_\_

Ship To: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Attention \_\_\_\_\_

PO Number: \_\_\_\_\_

### Parts Ordered:

Monaco Part # 02V278000A   
04-116A

Bosch Kit# 0204062358  
Tool Kit (Order 1 per shop)

#### Contents:

Larger wire brush

Wire bore brush

Spacer block

Piston / boot insertion tool (one each size for 2x68mm and 2x73mm pistons/boots)

Monaco Part # 02V278000B (68mm)   
04-116B (68mm)   
Monaco Part # 02V278000C (73mm)   
04-116C (73mm)

Bosch Kit# 0204062350

Bosch Kit# 0204062351

### Seal Replacement Kit (Order 1 per caliper)

#### Contents:

Piston boots

Caliper bore grease packet (Disc Brake Corrosion Control Grease)

Acid brush

Monaco Part# 02V278000D   
04-116D

Bosch Kit# 0204082357

Pin Kit - Includes Boot Kit (Order 1 per caliper)

Monaco Part# 02V278000G   
04-116G

Boot Kit ONLY# 0204082356

Boot Kit ONLY (Order 1 per caliper)

Contents:

Caliper guide pin boots

Disc brake guide pin / boot grease

Acid brush

Monaco Part# 02V278000E (66mm)   
04-116E (66mm)

Bosch Kit# 0204082354

Monaco Part# 02V278000F (73mm)   
04-116F (73mm)

Bosch Kit# 0204082355

Caliper Kit (Order 1 per wheel)

Contents:

Caliper assembly

Bleed screw

Customer Name: \_\_\_\_\_

Serial Number(s): \_\_\_\_\_

All parts will be shipped RPS ground unless other arrangements  
are made in advance.

FAX TO: 1-800-498-9478

MONACO COACH CORPORATION  
P.O. Box 485 Wakarusa, IN 46573-0485  
606 Nelsons Parkway Wakarusa, IN 46573-0485