



SIB 34 02 24

2024-09-10

RECALL 24V-104: INTEGRATED BRAKING SYSTEM

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 if the campaigns have a status of remedy available. Otherwise, please release the vehicle.

This Service Information Bulletin (Revision 2) replaces SI B34 02 24 **dated August 2024**.

What's New:

- Cause
- Correction
- Procedure
- Parts Information
- Claim Information
- Attachment "Service function" added

<input type="checkbox"/>	THIS REPAIR IS MOBILE FRIENDLY
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MODEL

E-Series	Model Description
F95	X5 M Sports Activity Vehicle
F96	X6 M Sports Activity Vehicle
G05	X5 Sports Activity Vehicle
G06	X6 Sports Activity Coupe
G07	X7 Sports Activity Vehicle
G09	BMW XM Sports Activity Vehicle
G60	5 Series Sedan & i5 Sedan
G70	7 Series Sedan & i7 Sedan
U10	X2 Sports Activity Vehicle
U11	X1 Sports Activity Vehicle

AFFECTED VEHICLES

Vehicles which require this campaign to be completed will show it as "Open" when checked either in AIR, AWP, Campaign Summary or Warranty Vehicle Inquiry.

Please make sure you check your dealer inventory as soon as possible. As of August 9, 2024, you can see a list of affected vehicles in Inventory Campaign Details (ICD) under ROSS.

SITUATION

BMW AG is amending Voluntary Safety Recall (effective August 8, 2024) to add certain Model Year 2023 - 2025 BMW vehicles.

The Integrated Brake (IB) module may not function according to specifications. If this happens, a warning lamp and message will be displayed in the instrument cluster. There will be a reduction in power assist braking, which could lead to an extended stopping distance and increase the risk of a crash. The Antilock Brake System (ABS) and Dynamic Stability Control (DSC) system may also not function, which could affect vehicle handling and control. Please note that higher pedal force may be required.

The Recall Notice and FAQ have been attached for further information.

CAUSE

Certain vehicles could experience signal disturbances in the Integrated Brake (IB) module.

CORRECTION

Perform the repair per the Attachment “Service Function and replace the IB” **for vehicles with over 165 miles.**

PROCEDURE

FAILURE TO FOLLOW ATTACHED PROCEDURES CAN RESULT IN MALFUNCTION OR LOSS OF INFORMATION STORED IN THE IB UNIT

Follow the attachment “Service Function and IB replace”.

Important Warning for Working on the High-Voltage (HV) systems on BMW Group vehicles:

Only properly trained personnel, who passed all applicable HV Technical Training Courses, should perform repairs which require disconnecting, or removal of High Voltage battery components on any Hybrid or Electric Vehicle. Work performed on High Voltage systems by unqualified persons may result in severe injury or damage to the vehicle. Additional safety information is found in Repair Instruction 61 00... “Observe safety instructions when handling electric vehicles”.

Prior to disconnecting, or the removal of any HV component, the HV system needs to be disabled and secured (by means of the HV Service Disconnect Switch and lock out) by a properly trained HV technician, who has a minimum HV Qualification level after completing the Technical Training Course “ST2324 High Voltage Drivetrain Systems” which as of 1/2023* includes ST1824 Alternative Drive Part 1.

*** Note: As of January 2023, the HV component portion of the “ST2205 Generation 5 High-voltage class” (except for the High Voltage Battery) has been merged into “ST2324 High Voltage Drivetrain Systems”.**

Up to Generation 4 Vehicles once vehicle’s HV system is disabled (the “Blitz” - lightning bolt icon is displayed in instrument cluster, see below), a technician without HV Certification may remove a HV component (e.g., EH Heater, EKK Compressor, EME Control Unit, et.), except for the High Voltage Battery.

For Generation 5 Vehicles however, the specific vehicle training is required to diagnose, remove and service any HV component and it is NOT allowed for non HV certified technicians to work on the high voltage system.

High Voltage Battery removal and rework can ONLY be performed by a High-voltage Certified Technician with a HV Battery Certification level corresponding to a specific Electric or Hybrid vehicle, for example:

To repair GEN4 HV battery of G05 PHEV a certification from Technical Training Course “ST2006 – SP44 HV Battery” or equivalent ST1825 – Alternative Drive Part 2 is required (or as of 1/2023 the equivalent “ST 2325 for High Voltage Battery Systems”).

And

To repair A GEN5 HV battery the Technical Training Course “ST2205 Generation 5 High-voltage class” is required or as of 1/2023* the equivalent “ST 2325 for High Voltage Battery Systems”.

***Note: As of January 2023, the “ST2205 Generation 5 High-voltage stand-alone class” has been merged into “ST2324 for High Voltage Drivetrain Systems” and “ST2325 for High Voltage Battery Systems”**

PARTS INFORMATION

Use and invoice the applicable part numbers below.

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Refer to the weekly Parts Matrix for the most up-to-date ordering information.

Series	Part Numbers	Description	Quantity
U11	34 50 5B5F8F1	Power brake	1
	34 50 5A59585	Brake booster seal	1
	07 11 9905374	Self-locking collar nut	2
	07 11 9904670	Self-locking collar nut	1
	07 11 9905147	hexagonal screw with disc	1
F95, F96, G05, G06, G07, G09	34 50 5B5F8F4	Power brake	1
	34 51 6893390	Brake booster seal	1
	07 14 6890655	Self-locking collar nut	2
G60	34 50 5B3C884	Power brake	1
	34 51 6893390	Brake booster seal	1
	07 14 9904295	Self-locking collar nut	2
	71 24 5A54A84	Sign (aka label) brake fluid	1
	51 71 6966566	Hexagonal screw with flange	Up to 4 Depending on type of strut brace
	51 64 8076922	Hexagonal screw with disc	Up to 4 Depending on type of strut brace
G70	34 50 5B5F8F3	Power brake	1
	34 51 6893390	Brake booster seal	1
	07 14 9904295	Self-locking collar nut	2
	71 24 5A54A84	Sign (aka label) brake fluid	1
	51 71 6966566	Hexagonal screw with flange	Up to 4 depending on type of strut brace
	51 64 8076922	Hexagonal screw with disc	Up to 4 depending on type of strut brace

Sublet – Bulk Supply Materials

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Part Number	Description	Quantity
81 22 0142156	Brake fluid DOT 4 (DN = 12 oz bottle)	Sublet as needed
Or:		
81 22 0142155	Brake fluid DOT 4 (DN = 1 Gallon)	Sublet as needed
And:		
81 22 5B43922	Brake fluid DOT 4, LV (DN = 1/10-liter billing part number, only in conjunction with dispersing from the 30-liter drum with a separate ordering part number)	Sublet as needed
83 19 5A53089	BMW Group Non-Chlorinated Brake Parts Cleaner- 3% VOC - (DN = 15 oz)	Sublet as needed
Or		
83 19 2451315	BMW Group Non-Chlorinated Brake Parts Cleaner - 45% VOC - (DN = 15 oz)	Sublet as needed

CLAIM INFORMATION

Reimbursement for this Recall will be via normal claim entry utilizing the applicable work package information below, the additional work as required, and part numbers listed above that apply.

Plusposition (+)	Completion before the first vehicle delivery to a customer or the vehicle is already in the workshop
Main work	The vehicle arrives for this Recall, no other Main work will be performed/claimed during this workshop visit

Only one Main work flat rate labor operation code can be claimed per workshop visit.

Repair Code:	0034860200	Fx Gx Ux Replacing integrated braking system
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Below are the special flat rate labor operation code choices for this action.

Work Package	Labor Operation	Description	Labor Allowance
# 1	00 77 599	Replace integrated brake system, program, and encode the vehicle control units, includes Carrying out vehicle test (00 00 556/61 21 528) (Plusposition)	As applicable
Or:			
# 2	00 77 067	Replace integrated brake system, program, and encode the vehicle control units.	As applicable

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		includes Carrying out vehicle test (00 00 006/61 21 528) (Main work)	
Or:			
#3	00 77 600	Replace the integrated brake system (Programming and encoding the vehicle control units was performed in conjunction with another campaign/repair during the same workshop visit) (Plusposition)	As applicable
Or:			
#4	00 77 068	Replace the integrated brake system (Programming and encoding the vehicle control units was performed in conjunction with another campaign/repair during the same workshop visit) (Main work)	As applicable
Or:			
# 5	00 77 605	The vehicle has already been completed by another repair or technical action (Plusposition)	1 FRU
Or:			
# 6	00 77 071	The vehicle has already been completed by another repair or technical action (Main work)	1 FRU

Vehicle Programming and Encoding Required after Part Replacement

During this workshop visit, the affected vehicle may also show one or more programming and encoding Technical Campaign repairs open, the programming and encoding procedure may only be invoiced one time.

After replacing the integrated brake system module, select this open Technical Campaign to also perform and submit for updating the vehicle to the required I-level or higher instead when applicable (This includes 00 00 006 or 00 00 556, 61 21 528, and 61 00 730).

Please be sure to also perform any additional before and/or after work (including attaching labels) as required by the open campaigns on the vehicle. Close any other open programming and encoding Campaign repairs as outlined in the corresponding Service Information Bulletin.

And, as applicable:

Additional Work with Work Package (WP) 1, 2, 3, or 4

Expanded WP	Labor Operation	Description (Associated work)	Labor Allowance
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A	00 77 604	Additional work brake ventilation routine for installation of an unfilled brake system	2 FRU
B	00 77 082	Additional work (Work time) Affected Vehicle operation/driving preparation work prior to power brake (IB) unit replacement	As required

Work time labor operation code 00 77 082 is not considered Main labor operations.

Claim Repair Comments

Only reference the SIB number, the work package (Pkg) number and the required “Additional work” performed in the technician’s RO notes and in the claim comments (For example: B34 02 24 WP1, A, B), unless otherwise required by State law.

Also, explain the additional work that was required and performed.

Sublet – Bulk Supply Materials (RO and Claim Comments Required)

Sublet Code 4	Reimbursement for the repair-related bulk supply materials (Do not use the BMW part numbers for claim submission)	Up to \$70.00
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Sublet reimbursement calculation for claiming the applicable repair-related bulk supply material (BMW part number) is at the dealer net (DN) price for the full or proportional quantity used plus your center’s handling.

Expanded WP B: Affected Vehicle refueling reimbursement is at cost (no markup).

Enter this material cost in sublet and itemize the amount on the repair order and in claim comment section.

BMW Group’s AIR Application Resource for Flat Rate Labor Operation Codes

To obtain the corresponding flat rate unit (FRU) allowance information from the BMW Group AIR application resource, start by entering the Chassis Number (last seven (7) characters of the VIN), and click on the “Search” icon. If the “Vehicle Selection” window displays two or more model possible vehicle choices, select the applicable Model, or enter the full VIN (17 characters) instead to proceed. Click on the “Flat Rate Units” button and enter a flat rate labor operation code number “without spaces” in the field to the right, click on the “Search” icon to display the corresponding listing of “Flat rate unit group details” that are available and their corresponding FRU allowances.

Vehicle Programming and Encoding – Additional Work (RO and Claim Comments Required)

This procedure automatically reprograms and encodes any vehicle control modules that do not have the latest software I-level.

If one or more control modules fail during the reprogramming procedure, claim the required consequential repair work procedures to address this issue (including performing the IRAP Control Unit Recovery first as required, refer to the SIB in AIR) under the Repair Code in this bulletin together with the corresponding labor operation codes and their flat rate unit (FRU) allowance(s), including the diagnosis* that applies.

Please explain the additional work procedures that were performed (The why and the what) on the repair order and in the claim comments.

For covered repairs that address control module failures that occurred prior to performing this reprogramming procedure, claim this work with the applicable Repair Code listed in AIR together with the corresponding labor operation codes and their flat rate unit (FRU) allowance(s), including the diagnosis* that applies.

(*) Based on which one applies to your center, please refer to **SI B01 01 20** or **B01 07 20** for the applicable procedure for documenting, claiming, and explaining, on the RO and in the claim comments, your diagnosis work time (WT), job/repair work time (WT), and the vehicle repairs your center performed, unless otherwise required by State law.

Alternative Mobility Solution (AMS) for Vehicle Owners (RO and Claim Comments Required)

This Recall repair qualifies for Alternative Mobility Solution (AMS) expense reimbursement, claim this item under the Repair Code noted above as follows:

Sublet Code 2 - Itemize the AMS sublet amount on the repair order and in the claim comment section.

Please refer to **SI B01 29 16** for additional information.

Reimbursement of Recall Remedy Comparable Prior Customer-Pay Repairs (TREAD Act)

The Safety Recall remedy repair for this action is to replace the Affected Vehicle’s power brake unit (Integrated Brake IB module) together with performing the required follow-up vehicle programming and encoding procedure.

Based on the age of the Affected Vehicles and the type of remedy repair being performed, a reimbursement request for a qualifying prior customer-pay repair is not likely. However, a customer may still request the review of a repair that was performed on their vehicle which they paid for.

A qualifying customer pay repair, performed **prior** to the notification of Recall, must be comparable to the Recall’s remedy repair, and it must primarily address the Service Information Bulletin’s identified vehicle issue (Situation/Cause) which requires repair (Correction) as noted above. Also, the repair must have been correctly, effectively, and completely performed as required by the applicable BMW Group approved repair process instructions and guidelines (Procedure) including required replacement part usage (Parts Information) for it to be considered and approved for reimbursement.

In the event of the above situation, please contact the Warranty department (include a legible copy of the invoice) through IDS by selecting Coverage, Policy, Coding Questions and Mileage Corrections. The Warranty department will respond to your inquiry accordingly.

FEEDBACK REGARDING THIS BULLETIN

Technical Feedback	To submit feedback for the technical topic of this bulletin: Submit your feedback in the rating box at the top of this bulletin
Warranty Feedback	To submit feedback for the CLAIMS section of this bulletin: Submit an IDS ticket to the Warranty Department, or use the chat available in the Warranty Documentation Portal
Parts Feedback	To submit feedback for the PARTS section of this bulletin: Submit an IDS ticket to the Parts Department

Supporting Materials

[picture_as_pdf B34 02 24 Attachment Service Function and IB replace.pdf](#)

[picture_as_pdf B340224 Recall Notice.pdf](#)

[picture_as_pdf B340224_24V-104-IB-BMW-FAQ-\(09Aug2024\).pdf](#)

SAFETY RECALL NOTICE

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

RE: Recall 24V-104: Integrated Braking System – B34 02 24

BMW AG is amending Voluntary Safety Recall (effective August 8, 2024) to add certain Model Year 2023 - 2025 BMW vehicles.

Please be reminded that it is a violation of federal law (The Safety Act) for you to sell, lease or deliver any new motor vehicle covered by this notification until the recall repair has been performed. This means that Centers may not legally deliver new motor vehicles to consumers until they are fixed or use/sell replacement equipment/parts subject to this recall. Note also that substantial civil penalties apply to violations of the Safety Act.

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.

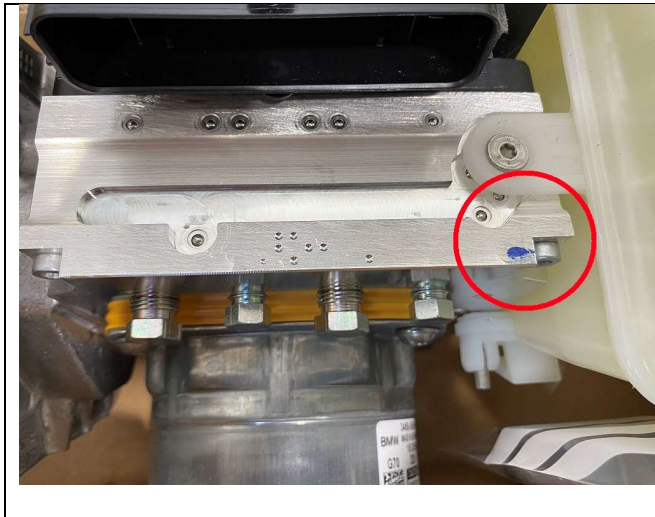
Please follow any special instructions that we provide to you for the return or disposition of recall parts.

We appreciate all your assistance with this Recall.

RECALL 24V-104: INTEGRATED BRAKE SYSTEM

Procedure: For vehicles over 165 miles

FAILURE TO FOLLOW ATTACHED PROCEDURES CAN RESULT IN MALFUNCTION OR LOSS OF INFORMATION STORED IN THE IB UNIT



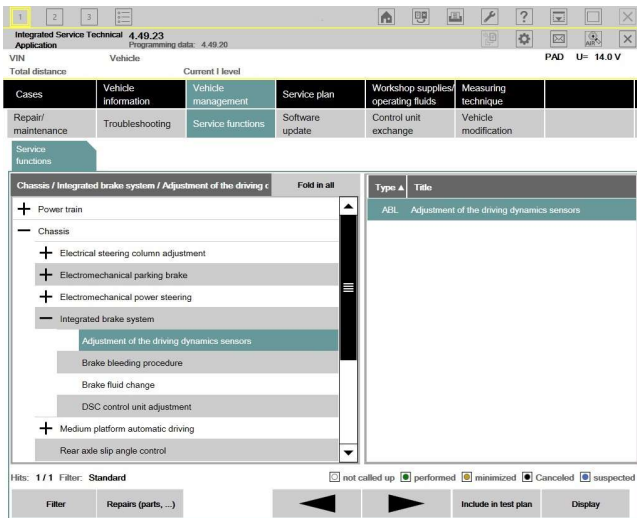
1. Inspect the IB installed in the vehicle for a blue dot as shown in the photo.

Does the IB have a blue dot?

No, proceed to step 2

Yes, Submit TSARA case, subject line: B34 02 24 Blue dot and await further assistance.

Refer to the Note in Step 4 for additional clarification on the blue dot.

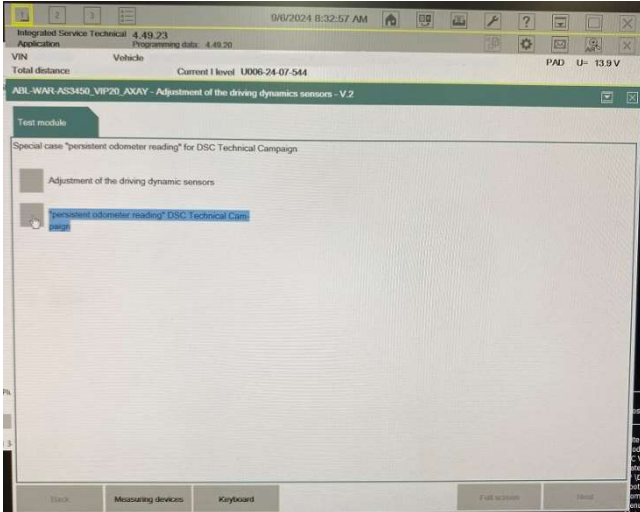


2. Using ISTA 4.49.2x

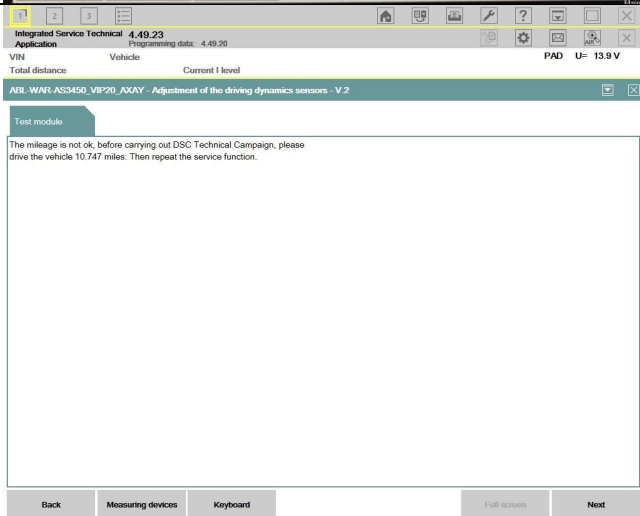
- Connect the vehicle to ISTA, **Identification without vehicle test.**

Note: ISTA Must be connected to workshop network

- With vehicle connection established, select Vehicle Management and Service Functions
- Select Chassis then Integrated brake systems and Adjustment of the driving dynamic sensors.
- Select the ABL, Adjustment of the driving dynamic sensors then display to run the test plan.



- In the service function test plan choose “persistent odometer reading” DSC Technical Campaign then next

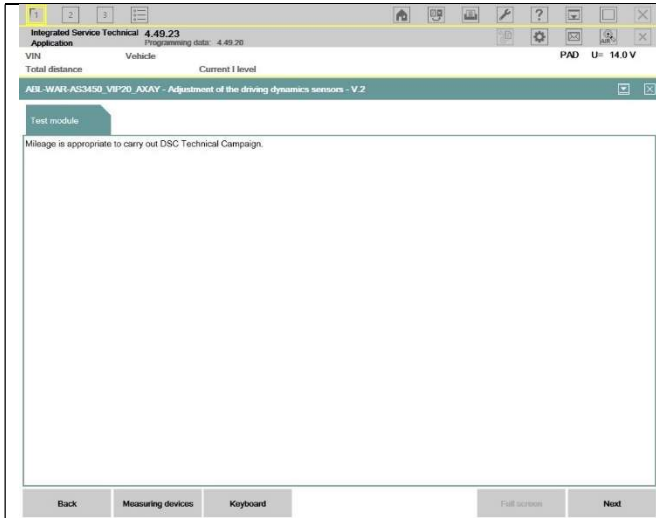


- The test plan results will determine whether the vehicle needs to be driven x number of miles, as shown in the photo, or the mileage is appropriate to proceed with IB replacement.
- **Note:** The vehicle must be driven the minimum given miles but not beyond 0.5 miles above. Anything above or below will result in another required drive.

Hint: Using the vehicle trip odometer to accurately determine the distance driven is recommended.

Important, When returning from mileage adjustment drive, put vehicle in work stall where it will not need to be moved for repair procedures.

- Repeat the service function after the vehicle has been driven the given number of miles from the test plan results.
- **Note:** the photo shown is only an example of a vehicle test which requires miles accrued before replacing an IB



- The test plan results indicate the mileage is appropriate to proceed with IB replacement
- **IMPORTANT: Do not proceed with IB replacement without receiving this message**



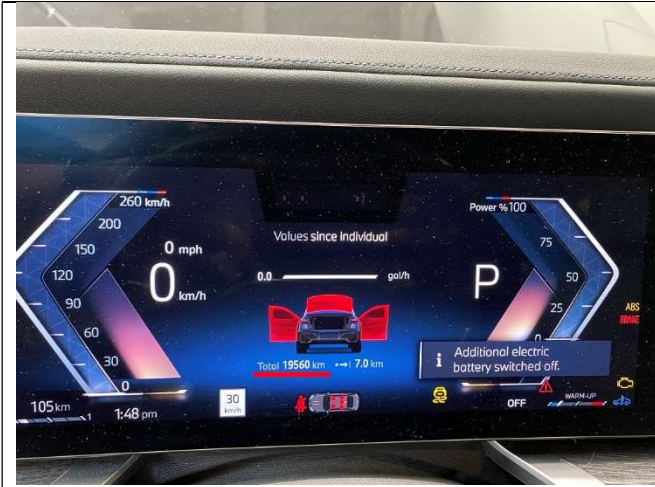
3. Verify the blue dot is located on the part number label as shown in the photo.

Note: Photo shown for location of blue dot on the parts label and does not indicate the part number for all models



4. Verify the blue dot is located on the on the new component as shown in the photo.

Note: Some models or IB may have an additional blue dot which is on the brake fluid reservoir. Disregard that blue dot. The only blue dot to be verified is shown here.



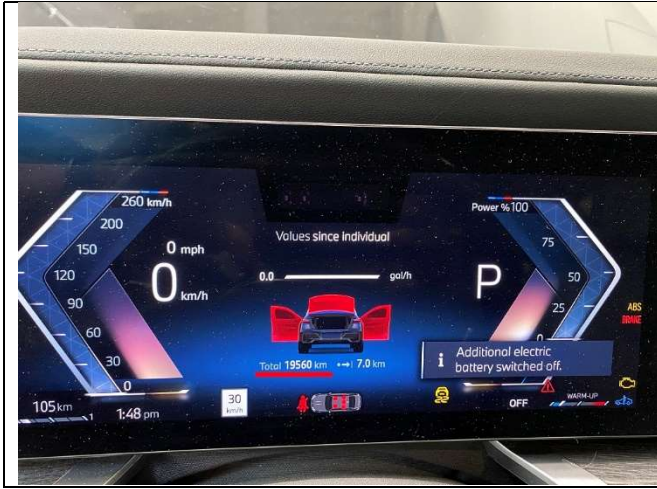
5. Note down the odometer mileage before performing the IB replacement.
NOTE: photo used shows odometer displays in km
6. Replace the IB as per REP 34 51 601 Hydraulic unit replacement.
 - **NOTE:** When removing the brake pedal, be particularly careful as not to damage the retaining lugs on the holding clip
 - **NOTE:** The wheel circuit connections must be properly torqued and inspected for leaks as per the repair instructions



7. For G60 and G70 install brake fluid label.



8. The odometer will display 0 miles until the vehicle is programmed and coded to the vehicle
NOTE: This photo used shows odometer displays in km.



9. Document the odometer mileage in the repair order after the IB has been replaced and successfully programmed and coded to the vehicle.

10. After replacing and programming the DSCi unit, perform the following service functions:
 - DSC control unit adjustment
 - Adjustment of the driving dynamics sensors

Safety Recall
24V-104
Integrated Brake (IB)
Model Year 2023-2025
BMW 5 Series / i5, 7 Series / i7
BMW X1, X5, X6, X7, XM
Issue Date: 02/22/2024
Update Date: 08/09/2024

Q1. Which BMW Group models in the US are potentially affected by this Safety Recall?

Certain Model Year 2023-2025 BMW 5 Series / i5, 7 Series / i7, X1, X5, X6, X7, and XM models in the US are potentially affected.

Q1a. This sounds familiar. Was there an earlier Safety Recall on this topic?

Yes. The Safety Recall has been expanded to include additional potentially affected vehicles.

Q1b. I had the Integrated Brake (IB) module replaced on my vehicle as part of the earlier Safety Recall. Is my vehicle affected again? Do I need to have that IB replaced?

Yes. Unfortunately, it has been determined that vehicles which have already received replacement parts during the original Safety Recall need to have those parts replaced.

Q2. What is the specific issue?

The Integrated Brake (IB) module may not function according to specifications. If this happens, a warning lamp and message will be displayed in the instrument cluster. There will be a reduction in power assist braking, which could lead to an extended stopping distance and increase the risk of a crash. The Antilock Brake System (ABS) and Dynamic Stability Control (DSC) system may also not function, which could affect vehicle handling and control. Please note that higher pedal force may be required.

However, fully mechanical braking is not affected. If the IB module is not functioning properly, the parking (emergency) brake will be automatically activated to aid in braking performance. Also, the emergency function of the brake force distribution system remains available to help maintain vehicle stability and control.

If you notice any of these conditions, your vehicle may be experiencing this issue. Please drive carefully, and avoid abrupt braking as much as possible. Please contact an authorized BMW center as soon as possible to have the vehicle remedied.

If you are not the only driver of this vehicle, please advise all other drivers and passengers of this important information.

Q3. Why are other models / vehicles not included in this Safety Recall?

Other models have an Integrated Brake (IB) system that was produced to specifications by the supplier.

Q4. Can I continue to drive my vehicle?

Yes. However, when you are notified by BMW of this Safety Recall that a remedy is available, please contact an authorized BMW center to schedule an appointment as soon as possible. For the latest updates to this Safety Recall, please visit [bmwusa.com/recall](https://www.bmwusa.com/recall). **If you are not the only driver of this vehicle, please advise all other drivers of this important information.**

Q5. How did BMW Group become aware of the issue?

BMW Group became aware of the issue through its quality control procedures.

Q6. How will I be informed of this Safety Recall?

Owners of potentially affected vehicles will be notified via First Class mail advising them of this Safety Recall. When parts become available, they will receive another letter, requesting that they schedule an appointment with an authorized BMW center as soon as possible to have this Safety Recall performed. For the latest updates to this Safety Recall, please visit [bmwusa.com/recall](https://www.bmwusa.com/recall).

To ensure BMW has the most up-to-date contact and vehicle information, owners should register their vehicle at [bmwusa.com/myBMW](https://www.bmwusa.com/myBMW). Registration is free and will give them access to other information specific for their BMW vehicle. Alternatively, owners can visit [bmwusa.com/recall](https://www.bmwusa.com/recall) and click on “**Manage recall notices and contact information**”.

**Safety Recall
24V-104
Integrated Brake (IB)
Model Year 2023-2025
BMW 5 Series / i5, 7 Series / i7
BMW X1, X5, X6, X7, XM
Issue Date: 02/22/2024
Update Date: 08/09/2024**

Q7. How will my vehicle be remedied?

When the remedy is available, potentially affected vehicles will have the Integrated Brake (IB) system replaced for free which should take several hours.

Q8. Do I have to wait for BMW to contact me to have the remedy performed?

Yes. We are in the process of implementing this Safety Recall to ensure that the necessary parts, tools, and procedures are available. For the latest updates to this recall, please visit [bmwusa.com/recall](https://www.bmwusa.com/recall).