

MAINTENANCE**Maintenance & OE General Information - X3****00 MAINTENANCE AND GENERAL INFORMATION****00 DANGER OF POISONING IF OIL IS INGESTED/ABSORBED THROUGH THE SKIN****Danger of poisoning!**

Ingesting oil or absorbing through the skin may cause poisoning!

Possible symptoms are:

- Headaches
- Dizziness
- Stomach aches
- Vomiting
- Diarrhoea
- Cramps/fits
- Unconsciousness

Protective measures/rules of conduct:

- Pour oil only into appropriately marked containers
- Do not pour oil into drinking vessels (drinks bottles, glasses, cups or mugs)
- Observe country-specific safety regulations

First aid measures:

- Do not induce vomiting.

If the person affected is still conscious, he/she must rinse out their mouth with water, drink plenty of water and consult a doctor immediately.

If the person affected is unconscious, do not administer anything by mouth, place the person in the recovery position and seek immediate medical attention.

00 RISK OF INJURY IF OIL COMES INTO CONTACT WITH EYES AND SKIN**Danger of injury!**

Contact with eyes or skin may result in injury!

Possible symptoms are:

- Impaired sight
- Irritation of the eyes
- Reddening of the skin
- Rough and cracked skin

Protective measures/rules of conduct:

- Wear protective goggles
- Wear oil-resistant protective gloves
- Observe country-specific safety regulations

First aid measures:

- Eye contact: Rinse eyes immediately with plenty of water for at least 15 minutes; if available, use an eye-rinsing bottle. If irritation of the eyes persists, consult a doctor.
- Skin contact: Wash off with soap and water immediately. If irritation persists, consult a doctor.

NOTE: **Do not use solvents/thinners.**

00 SAFETY INSTRUCTIONS FOR HANDLING OIL

WARNING: Danger of poisoning if oil is ingested/absorbed through the skin! See 00
Danger of poisoning if oil is ingested/absorbed through the skin
Risk of injury if oil comes into contact with eyes and skin! See 00 Risk of
injury if oil comes into contact with eyes and skin

Recycling:

Observe country-specific waste-disposal regulations.

Measures if oil is unintentionally released:

- Personal precautionary measures: Danger of slipping! Keep non-involved persons away from the work area. Wear personal protective clothing/equipment.
- Environmental protection measures: Prevent oil from draining into drain channels, sewerage systems, pits, cellars, water and the ground.
- Limiting spread: Use oil blocks to prevent the surface spread of oil.
- Cleaning procedure: Bind and dispose of escaped oil with nonflammable absorbents.

NOTE: **Do not flush oil away with water or aqueous cleaning agents.**

00 ... BMW SERVICE-INSPECTION (PETROL/GASOLINE VEHICLES)

IMPORTANT: The operations set out below always refer to the maximum possible scope of a service-inspection.

The exact scope of the vehicle in question must be printed out with the vehicle identification number from the KSD CD.

Body / electrical system

- Check lighting system: instrument and indication field lighting, heater fan, signal horn, headlight flasher and hazard warning lights, see **00 00 ... Checking lighting system**
- Seat belts: check condition of belt strap, function of inertia reel mechanism, locking reel, belt buckle, see **00 00 ... Seat belts: checking condition of belt strap, function of inertia reel mechanism, locking reel, belt buckle**
- Battery:
 - Check acid level, charge state (magic eye)
 - If necessary: Charge battery, see **00 00 ... Battery: checking acid level, topping up with distilled water if necessary. If necessary, recharge battery.**
- Heating/air conditioning: change microfilter / carbon canister, see **00 00 ... Heating/air conditioning: replacing microfilter/carbon canister (shorten replacement interval accordingly in event of larger buildup of dust)**
- Body and underbody: check for corrosion and damage-except cavities, see **00 00 ... Body and underbody: checking for corrosion and damage - except cavities**

Engine compartment

- Diagnostic brief test , see **00 00 ... Diagnostic brief test**
- In event of fault memory entry "54C6" change transfer case oil , see **00 00 ... Oil change in transfer case**
- Change engine oil and oil filter , see **00 00 ... Changing engine oil and oil filter**
- Replace spark plugs , see **00 00 ... Replacing spark plugs**
- Coolant hoses: visually inspect for leaks, check coolant level and concentration, top up if necessary
Caution! Replace coolant at least every 3 years, see **00 00 ... Coolant hoses: visual inspection for leaks. Checking coolant level and concentration, topping up if necessary**
- Reset service interval indicator according to factory specifications, see **00 00 ... Resetting service interval indicator according to factory specifications**
- Windscreen washer system and intensive cleaning system: check fluid level, top up if necessary, see **00 00 ... Windscreen washer system and intensive cleaning system: checking fluid level, topping up if necessary**
- Power steering/ride-height control: visual inspection for leaks, check fluid level, top up fluid if necessary, see **00 00 ... Power steering/ride-height control: visual inspection for leaks, checking fluid level, topping up fluid if necessary**
- caution Change brake fluid in accordance with service interval indicator , no later than every 2 years, see **00 00 ... Changing brake fluid**
- Air cleaner: Replace air cleaner element, see **00 00 ... Air cleaner: replacing air cleaner element (shorten replacement interval accordingly in event of larger buildup of dust)**

Chassis / suspension area

- Front and rear disc brake pads:
 - check pad thickness with measuring gauge **00 00 ... Front and rear brake linings: checking lining thickness with measuring gauge. If linings are replaced: cleaning brake shafts, checking brake disk thickness and surface, applying grease to wheel centering on alloy wheels. If rear linings are replaced: checking parking brake linings**
 - If pads are replaced: Clean brake ducts. Brake discs: Check surface and thickness. If replacing at rear: check parking brake linings. Grease wheel centering on light alloy wheels.
- Check steering for play . Steering tie rods and axle joints, steering gear, sleeves and flexible disc: check condition, see **00 00 ... Steering components: checking for zero clearance, leaks, damage and wear**
- Underbody incl. all visible components : check for damage, leaks, corrosion, see **00 00 ... Underbody incl. all visible components: checking for damage, leaks, corrosion**
- Brake lines and connections: visual inspection for leaks, damage and correct position, see **00 00 ... Brake lines and connections: visual inspection for leaks, damage and correct position**
- Check handbrake lever travel , adjust according to setting specifications if necessary, see **00 00 ... Checking handbrake lever travel, adjusting according to setting specifications if necessary**
- Tires:
 - Check pressure, correct if necessary (including spare wheel). Check external condition (left/right), check tread depth and pattern
 - If level of wear is not uniform, measure and correct wheel alignment after consulting with customer, see **00 00 ... Tires: checking inflation pressure, correcting if necessary (incl. spare wheel), checking external condition, tread depth, pattern. In event of nonuniform wear, carry out measurement and correction of wheel alignment**

Final check

- Check roadworthiness: See **00 00 ... Checking roadworthiness**
 - check brakes (with rear disc brakes: brake in handbrake)
 - Steering/power steering
 - Clutch
 - Shock absorbers (visual inspection)
 - Indicator and warning lamps
 - Check Control

00 PRE-DELIVERY CHECK

Quality assurance by BMW Service

Model:
Vehicle identification number:

- | | |
|----------------------------|---------------------------|
| Included with the vehicle: | Owner's Handbook(s) |
| | Service Booklet |
| | Master key/remote control |
| | Spare key |

I hereby confirm that I have received the vehicle in perfect condition.

.....	
Place and date	Signature of vehicle owner

Fig. 1: BMW Service Quality Assurance Sheet
Courtesy of BMW OF NORTH AMERICA, INC.

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Pre-delivery check by BMW Service

Scopes of inspection:

To be kept with the workshop documents

The following work must be carried out on the vehicle by BMW Service prior to delivery.

* Denotes optional extra or national -market specification. Observe possible changes in this regard.

Model:

Vehicle identification number:

	Not OK	OK
Battery main switch*		
Removal and connection, carry out following scopes if necessary	O	O
Power windows*: Initialize system	O	O
Glass sunroof*: Initialize system	O	O
Steering angle adjustment or initialize active front steering*	O	O
Equipment pack scopes		
Fit	O	O
	Not OK	OK
Carry out "CBS pre-delivery check" in the Service Function path under Maintenance	O	O
Deactivate transportation mode	O	O
Reset average mileage, enter service telephone number	O	O
Enter first registration	O	O
Set on-board date	O	O
Set statutory inspection dates*	O	O
Enter service telephone numbers	O	O
Check battery, observe notes/information in Tester	O	O
Clear fault memory	O	O
Carry out brief diagnosis test, eliminate faults if necessary	O	O
Engine compartment		
Check for cleanliness	O	O
Washer fluid reservoir		
Check fill level and top up if necessary, where required with antifreeze additive	O	O
	Not OK	OK
Sticker		
Attach sticker for BMW Group Mobile Service	O	O
Body, interior equipment, floor plate		
Check for transportation damage	O	O
Spring blocker*		
Remove	O	O
Tyres		
Check tyre pressures; if provided, also compact or spare wheel	O	O
Initialise Run Flat Indicator	O	O
Winter tyres*		
Attach V-max. sticker	O	O
Service Booklet		
Stamp pre-delivery check	O	O
	Not OK	OK
Enclose documents or hand over with vehicle		
Owner's Handbook	O	O
Service Booklet	O	O
Contact brochure	O	O
Care/Upkeep brochure	O	O
BMW Group Mobile Service brochure	O	O
Include BMW key or remote control (make note of number)	O	O

Fig. 2: BMW Service Pre-Delivery Check-Sheet (1 Of 2)
Courtesy of BMW OF NORTH AMERICA, INC.

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Telltale/warning lamps and Check Control		
Check for incorrect indication and eliminate faults if necessary	O	O
Service and parking brake		
In event of transportation and immobilization periods of 3 -6 weeks	O	O
is to be checked for correct operation	O	O
Brake in in event of extended immobilization periods		
In event of transportation and immobilization periods of more than 6 weeks	O	O
Brake in	O	O
	Not OK	OK
Interior rearview mirror with digital compass *		
Calibrate system	O	O
Preservation, cleaning		
Remove transportation lock	O	O
Dewax and clean vehicle as prescribed	O	O
.....		
Date	Mechanic	Workshop Manager

Fig. 3: BMW Service Pre-Delivery Check-Sheet (2 Of 2)
Courtesy of BMW OF NORTH AMERICA, INC.

00 ... LIFTING VEHICLE WITH A LIFTING PLATFORM

WARNING: Danger to life!

Read and follow operating instructions for lifting platform.
Do not exceed carrying capacity of lifting platform.

NOTE: The lifting platform must comply with the relevant statutory accident prevention regulations and be serviced according to the manufacturer's instructions.

IMPORTANT: Risk of damage!

Before driving onto a lifting platform, make sure there is sufficient ground clearance between the lifting platform and the car.
The vehicle may only be raised with the lifting platform at the four jacking points.

Necessary preliminary tasks:

- If necessary, remove jacking points from equipment pack and insert from below into openings in front and rear sill areas

IMPORTANT: Risk of damage!

Align support plates (2) of lifting platform arms to jacking points (1) in such a

way that no adjoining components are touched and thereby damaged.

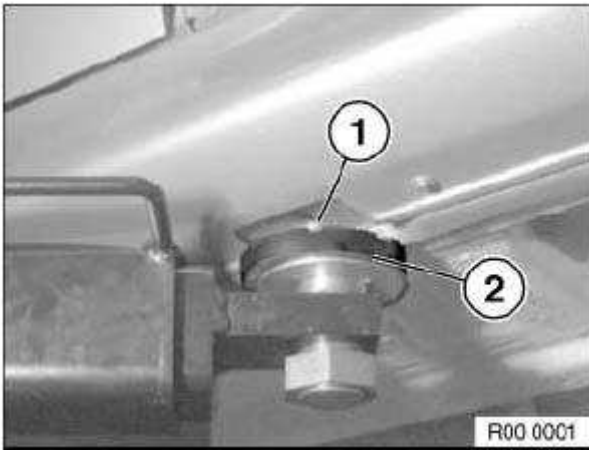


Fig. 4: Lifting Platform Support Plates And Jacking Points
Courtesy of BMW OF NORTH AMERICA, INC.

00 ... NOTES ON USING REPAIR INSTRUCTIONS, TECHNICAL DATA, TIGHTENING TORQUES

These repair instructions are intended to help expertly carry out maintenance and repair work.

They thus supplement the practical and theoretical training of master mechanics and fitters in BMW's Service Training Centers.

The Repair Instructions describes the removal, installation and replacement of subassemblies in the vehicle.

The Repair Instructions describe tasks which can be carried out on series-production BMW Group vehicles and vehicles which have not been subsequently converted.

Cross-references to "Technical Data" and "Tightening Torques" must be complied with.

If there are no cross-references to tightening torques in the repair instructions, the excerpts from the company standard BMW N 600 02.0 must be observed.

Cross-references to other flat rate units are intended as an aid and can refer to a complete work operation or merely to individual work steps contained therein.

Cross-references to other flat rate units must not be considered as an extension of the labor performance standard.

The structure of the Repair Instructions corresponds to the numbering system of the flat rate manuals (flat rate units).

NOTE: With the exception of inspection operations, no flat rates are published for the

E52 (Z8) model series. However, the numbering system (flat rate units) is retained.

Furthermore, the corresponding microfiches of the repair instructions are valid for the E12, E21, E24, E28, E30, E31 and E34 model series.

The microfiche is also valid for the E32 model series with the following exception: For the 750i, 750Li models and the job description 31 31 000 Replacing front left or right spring strut, the TIS CD must be used!

In general, the individual work steps of the Repair Instructions describe only the removal of subassemblies. All removed subassemblies are reinstalled in reverse sequence. If particular features need to be observed during installation, they are identified as notes on installation. In contrast, complicated removal and installation procedures are described separately.

Further information on repair operations can be found on the "Commercial Service Data CD (KSD CD)". For the E39, E46 and E53 model series and the following model series, it is possible after selecting the FRU items to activate the corresponding information via the Text and Inclusive Items buttons.

Improvements and modifications are published regularly in service information bulletins.

00 ... RAISING VEHICLE WITH TROLLEY JACK

IMPORTANT: Observe the following trolley-jack-related instructions:

1. Use only BMW-distributed/approved trolley jacks which have rubber plate contact points.
2. Trolley jacks must be regularly serviced and always checked for functional reliability before they are used!
3. Check the rubber plate on the trolley jack prior to each use, replacing if necessary.

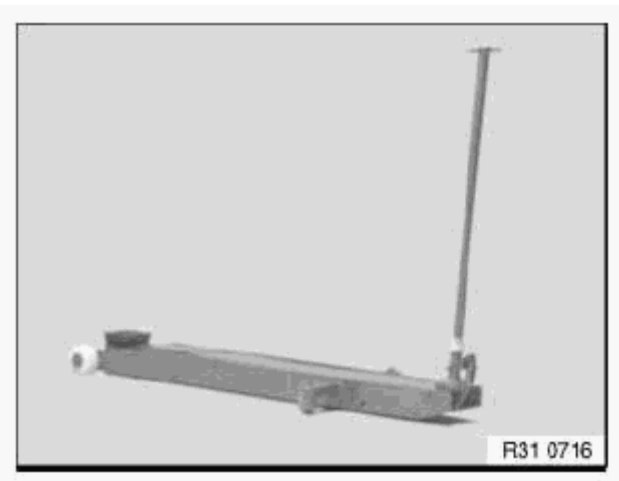


Fig. 5: BMW Trolley Jack

Courtesy of BMW OF NORTH AMERICA, INC.

WARNING: The vehicle may be raised with a trolley jack only at the following jacking points!

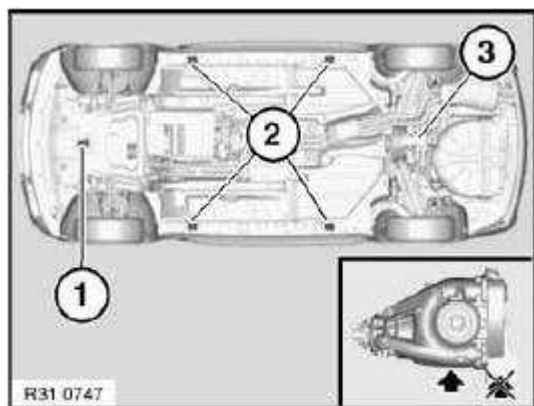


Fig. 6: Jacking Points And Rear Differential
Courtesy of BMW OF NORTH AMERICA, INC.

Risk of damage: It is not permitted to raise the vehicle at the rear differential cover!

00 SYMBOLS USED AND INFORMATION IN REPAIR INSTRUCTIONS

WARNING: Precautionary rules and measures which protect mechanics and other personnel against injury (including life-threatening injuries).

Example:

WARNING: Danger of scalding!
Only perform this work after engine has cooled down.

IMPORTANT: Specific instructions and precautionary measures which prevent damage to the vehicle or to vehicle parts. Failure to comply with the above will invalidate any warranty claims.

The caution symbol is used in all repair instructions.

However, use of the warning word "Caution!" is not binding in every case.

The notes, instructions and precautionary measures mentioned above retain their validity.

NOTE: Particular information on improved procedures for operation, testing, adjustment and upkeep.
Also indicates the end of a repair section.

Recycling:

Observe country-specific waste-disposal regulations

General information:

Refers to other instructions: such as e.g.:

Necessary preliminary tasks;

Further instructions: refer to operating instructions for balancing machine.

Replacement:

Carry out programming/coding.

NOTE: Many electronic control units must be programmed/coded (e.g. when replaced).

NOTE: • Connect BMW diagnosis system

IMPORTANT: Read and comply with notes on protection against electrostatic damage (ESD protection).

NOTE: Electronic control units and other electronic components - if handled incorrectly - can be damaged or destroyed by electrostatic discharge.

00 00 ... AIR CLEANER: REPLACING AIR CLEANER ELEMENT (SHORTEN REPLACEMENT INTERVAL ACCORDINGLY IN EVENT OF LARGER BUILDUP OF DUST)

- Replace air cleaner (filter) in accordance with repair instructions

00 00 ... BATTERY: CHECKING DISPLAY. IF NECESSARY, RECHARGE BATTERY.

IMPORTANT: Observe safety instructions for handling vehicle battery, see 61 00 ... SAFETY INSTRUCTIONS FOR HANDLING VEHICLE BATTERY .

Vehicles with low-maintenance battery:

Check acid level, top up with distilled water if necessary

If level drops below Max. marking, top up distilled water to Max. marking.

Vehicles with maintenance-free battery:

IMPORTANT: For information on how to proceed, refer to BATTERY CHARGING

Issue a separate invoice if the battery is recharged.

00 00 ... BATTERY: CHECKING ACID LEVEL, TOPPING UP WITH DISTILLED WATER IF

NECESSARY. IF NECESSARY, RECHARGE BATTERY.

IMPORTANT: Observe safety instructions for handling vehicle battery, see 61 00 ... SAFETY INSTRUCTIONS FOR HANDLING VEHICLE BATTERY .

Vehicles with low-maintenance battery:

Check acid level, top up with distilled water if necessary

If level drops below Max. marking, top up distilled water to Max. marking.

Vehicles with maintenance-free battery:

**IMPORTANT: For information on how to proceed, refer to BATTERY CHARGING .
Issue a separate invoice if the battery is recharged.**

00 00 ... BODY AND UNDERBODY: CHECKING FOR CORROSION AND DAMAGE

Inspect chassis, underbody and wheel arches and check for corrosion and damage.

NOTE: It is absolutely essential to rectify any identified faults after consulting the customer and to issue a separate invoice.

00 00 ... BODY AND UNDERBODY: CHECKING FOR CORROSION AND DAMAGE - EXCEPT CAVITIES

Visually inspect the underbody, wheel arches and frame members for rust and damage.

IMPORTANT: If damage to the underbody is identified:

- If necessary, remove panels from underbody.
- Check mountings and fixtures and brake and fuel lines for damage and correct installation position.

Rectify identified faults after consulting with customer and issue a separate invoice.

00 00 ... BODY: CHECK FOR CORROSION (EXCEPT CAVITIES)

Visually inspect the underbody, wheel arches and frame members for rust and damage.

IMPORTANT: If damage to the underbody is identified:

- If necessary, remove panels from underbody.

- Check mountings and fixtures and brake and fuel lines for damage, corrosion and correct installation position.

Rectify identified faults after consulting with customer and issue a separate invoice.

00 00 ... BRAKE LINES AND CONNECTIONS: VISUAL INSPECTION FOR LEAKS, DAMAGE AND CORRECT POSITION

Check brake lines and connections

- Visual inspection in visible area for:
 - leaks; if necessary, check brake fluid level in expansion tank
 - traces of fluid
 - damage
 - crushing/flattening
 - correct routing of brake lines
 - correct seating of brake lines in holders

NOTE: Detected faults must urgently be repaired after consultation with the customer!

00 00 ... CHANGING BRAKE FLUID

- Change brake fluid in accordance with repair instructions, see **34 00 025 REPLACING FLUID IN ABS/ASC+T BRAKE SYSTEM**
- Read and comply with general notes and information on brakes, see **34 00 ... GENERAL INFORMATION**

NOTE: Issue a separate invoice for changing the brake fluid.

00 00 ... CHANGING ENGINE OIL AND OIL FILTER

NOTE: Change engine oil and oil filter in accordance with repair instructions

00 00 ... CHECK WINDSCREEN WASH/WIPE SYSTEM

- Check wipe pattern for smearing; if necessary, replace wiper blades after consulting with customer
- The spray jet must emerge uniformly from the spray nozzle, replace nozzle if necessary and issue a separate invoice.
- The spray nozzles are preset at the factory and cannot be adjusted later

IMPORTANT: Do not under any circumstances use a needle or similar to adjust the spray

nozzles as such an implement would damage the water channels in the nozzle!

00 00 ... CHECKING CLUTCH DRIVE PLATE FOR WEAR

- Check clutch drive plate for wear during a test drive (see **FINAL CHECK**)

00 00 ... CHECKING COOLANT LEVEL AND CONCENTRATION, CORRECTING IF NECESSARY

- Check connections, hose clamps and hoses for coolant residues and damage such as e.g. cracks.
- Check coolant level in expansion tank. Coolant level must be between Min. and Max. markings. If necessary, top up coolant to max. fill level.
- In event of topping up: Check concentration with antifreeze tester (special tool) in coolant expansion tank.

If necessary, drain off the difference quantity at the coolant drain plug and top up with recommended coolant (issue a separate invoice).

00 00 ... CHECKING HANDBRAKE LEVER TRAVEL, ADJUSTING ACCORDING TO SETTING SPECIFICATIONS IF NECESSARY

- **Checking parking brake**

Check handbrake lever travel and adjust in accordance with repair instructions, see **34 10 014**
ADJUSTING HANDBRAKE

00 00 ... CHECKING LIGHTING SYSTEM

- Check lighting system for correct operation:
 - Check headlights, rear lights and associated telltale/indicator lamps
 - Check sidelamps, parking lights, dipped-beam and main-beam headlights for correct operation
 - Check headlight flasher for correct operation
 - Check signal horn
 - Check left/right direction indicators and hazard warning system for correct operation
 - Check brake lights for correct operation
 - Check reversing lights and license plate lights for correct operation
 - Check front and rear fog lights for correct operation
 - Check inside light on interior rearview mirror for correct operation
 - Check instrument and indication field lighting

NOTE: **Perform a check of headlight adjustment only at the customer's request and issue a separate invoice.**

00 00 ... CHECKING ROADWORTHINESS

o Checking roadworthiness

- Take vehicle for a test drive, checking service and parking brakes in the process
- For vehicles with rear disc brakes, brake in parking brake as instructed, see **34 10 014**
ADJUSTING HANDBRAKE
- Check steering for play, ease of movement and directional stability
- Check clutch for problem-free disengagement and non-spasmodic driving off at normal operating temperature
- Check function of all drive positions and driving programs in cars with automatic transmissions.
- Visually inspect shock absorbers for leaks
- Check indicator/warning lamps and Check Control system for correct operation
- Check due date for statutory roadworthiness and exhaust emission tests and advise customer of test dates

00 00 ... COOLANT HOSES: VISUAL INSPECTION FOR LEAKS. CHECKING COOLANT LEVEL AND CONCENTRATION, TOPPING UP IF NECESSARY

- o Check connections, hose clamps and hoses for coolant residues and damage such as e.g. cracks.
- o Check coolant level in expansion tank. Coolant level must be between Min. and Max. markings. If necessary, top up coolant to max. fill level.
- o Check concentration with antifreeze tester (special tool) in coolant expansion tank.

If necessary, drain off the difference quantity at the coolant drain plug and top up with recommended coolant (issue a separate invoice).

00 00 ... DIAGNOSTIC BRIEF TEST

- o Connect BMW diagnosis system (DIS) to diagnosis socket or OBD socket
- o Switch ignition on
- o Carry out vehicle identification
- o Start brief test

NOTE: For diagnostics, the brief test is essential for evaluating possible stored diagnostic trouble codes. In the brief test, the control units are physically identified in succession and their fault memories read out. Check identified faults and if necessary rectify these faults after consulting with customer.

00 00 ... DIAGNOSTIC BRIEF TEST

Connect diagnostic system to OBD socket.

Switch on ignition.

Carry out vehicle identification.

Click on Brief test.

The brief test is carried out.

NOTE: For motor vehicle diagnostics, the brief test is essential for evaluating possible stored diagnostic trouble codes.
In the brief test, the control units are physically identified in succession and their fault memories read out.
If the fault memory has been read out, the faults appear in the "Fault pattern selection" mask in the "Fault memory contents" field.
Check identified faults and if necessary rectify these faults after consulting with customer.

00 00 ... EXHAUST SYSTEM: CHECKING CONDITION, MOUNTING AND INSPECTING FOR LEAKS

- **Condition**
 - Check exhaust system for corrosion and cracks
 - Check screw connections on flanged joints and clamping sleeves for damage
- **Routing**
 - Check that exhaust system is correctly routed and free of obstructions on the underbody
 - Check that heat shields are fitted and securely seated
- **Mounting**
 - Check rubber mounts and rubber rings for cracks and whether any are missing
- **Leaks**
 - Check exhaust system at flanged joints and clamping sleeves for black combustion residues.

NOTE: After consultation with the customer, rectify faults and issue a separate invoice.

00 00 ... FRONT AND REAR BRAKE LININGS: CHECKING LINING THICKNESS WITH MEASURING GAUGE. IF LININGS ARE REPLACED: CLEANING BRAKE SHAFTS, CHECKING BRAKE DISK THICKNESS AND SURFACE, APPLYING GREASE TO WHEEL CENTERING ON ALLOY WHEELS. IF REAR LININGS ARE REPLACED: CHECKING PARKING BRAKE LININGS

- Check brake lining thicknesses with measuring gauge at front and rear, see **34 00 010 CHECKING THICKNESS OF BRAKE PAD**
- Clean brake shafts
- Replace brake linings if they drop below minimum thickness (refer to Technical Data)
- Replace brake discs if they drop below minimum thickness (refer to Technical Data) and in event of scoring, heat cracks, lateral runout or thickness difference
- Clean wheel centering on alloy wheels and apply a thin coating of grease

- Remove front and (if necessary) rear disc brake pads
 - Remove and install front disc brake pads, see **34 11 000 REMOVING AND INSTALLING/REPLACING BRAKE LININGS OF BOTH FRONT DISC BRAKES**
 - Remove and install rear disc brake pads, see **34 21 200 REMOVING AND INSTALLING/REPLACING BOTH REAR DISC BRAKES**

Additional tasks when changing rear linings

- Remove rear brake discs, see **34 21 320 REMOVING AND INSTALLING/REPLACING BOTH BRAKE DISKS**
- Check parking brake lining for porosity and wear
- Check ease of movement of expander lock

NOTE: **Defective brake pads/linings/brake discs must be repaired after consultation with customer and a separate invoice issued**

00 00 ... FUEL LINES, FUEL TANK AND FUEL HOSES: VISUAL INSPECTION FOR ROUTING, CONDITION AND LEAKS

- Check fuel lines and hoses and fuel system connections for traces of fluid and for leaks
- Check fuel tank(s) and hoses for damage such as cracks, flattening etc.
- Check that fuel lines are routed correctly
- Check that fuel lines are correctly seated in holders

NOTE: **Detected faults must urgently be repaired after consultation with the customer!**

00 00 ... HEATING/AIR CONDITIONING: REPLACING MICROFILTER/CARBON CANISTER (SHORTEN REPLACEMENT INTERVAL ACCORDINGLY IN EVENT OF LARGER BUILDUP OF DUST)

- Changing microfilter, refer to repair instructions:
 - Microfilter E39
 - Microfilter E46
 - Microfilter E53
 - Microfilter E85
 - Microfilter E83, see **64 31 010 REPLACING MICROFILTER FOR INTERIOR VENTILATION**

IMPORTANT: In the E39 the water drain under the brake booster must be checked for contamination and if necessary cleaned when the microfilter is changed.

NOTE: **In the case of older model years, issue a separate invoice for replacing the microfilter.**

00 00 ... INFORMATION/WARNING LABELS

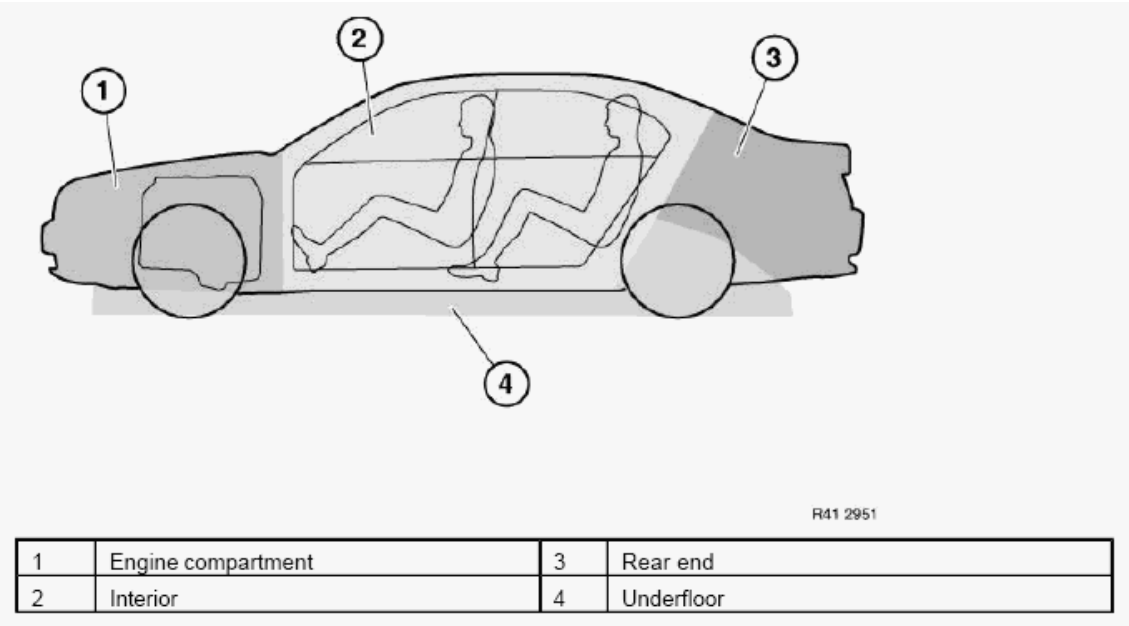


Fig. 7: Information/Warning Labels Location
Courtesy of BMW OF NORTH AMERICA, INC.

INFORMATION/WARNING LABELS SPECIFICATION

Location:	Information/warning label:	Country:
Various components	Replacement identification-spare parts-	US, CDN
Various components	Anti-theft protection	US, CDN
Engine compartment (1):		
Battery	Battery sticker	Gulf States
Headlights/engine compartment	Mercury (xenon headlights)	Worldwide
Engine compartment/raw air snorkel	Aluminium screws/bolts	Worldwide
Cylinder head cover	Ignition coil	Worldwide
Engine compartment/end panel	BMW High Performance Oil	US, not CDN
Engine compartment/end panel	Premair	US
Engine compartment	ICES CDN	CDN
Engine compartment	EC nameplate	Worldwide, not US, CDN, Japan, Australia, Gulf States
Engine compartment/hood/bonnet	Refrigerant	Worldwide
Engine compartment/hood/bonnet	Production date	Australia, Great Britain
Engine compartment/hood/bonnet	Exhaust gas	Australia, US, CDN
Engine compartment/brake booster	Brake fluid	CDN
Engine compartment/hood/bonnet	Exterior paint	Worldwide

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Engine compartment/hood/bonnet	BMW genuine spare parts	Worldwide
Interior (2):		
Windscreen, top right	Airbag-windscreen	Europe
Windscreen	CCC	China
Windscreen	Vehicle identification number	US, CDN, Gulf States, Great Britain & South Africa
I Drive	A/C menu	US, CDN
Passenger compartment/instrument panel	Airbag, instrument panel	US, CDN
Interior/sun visor	Airbag-sun visor	US, CDN
Steering wheel/speedometer	Top speed-210 km/h-Only with optional extra and for car rental	Germany
Complete vehicle, bodyshell:		
B-pillar	Airbag symbol (front passenger)	Worldwide (not US and CDN)
B-pillar	Vehicle identification number	Brazil
B-pillar	Manufacturer's certificate	US, CDN, Gulf States
B-pillar	Tyre inflation pressure	Europe, US, CDN, Australia
B-pillar	Runflat indicator	Worldwide
B-pillar	Side airbag	Worldwide
Door, driver's side	Towing	Worldwide
Rear end (3):		
Fuel cap/hood/bonnet	Independent heating	Europe
Filling area	Refuelling	US, CDN, Europe
Filling area, instrument cluster (plug)	OBD system	US, CDN
Trim, striker	Nose weight (only with optional extra)	Worldwide
Trim, cross-member (through-loading)	Lock, through-loading (only with optional extra)	Worldwide
Luggage compartment cover	Hardtop lowerable	Worldwide
Luggage compartment trim panel on side panel	Hardtop lowerable	Worldwide
Underfloor (4):		
Vehicle jack	Vehicle jack	Australia
Front axle carrier	Airbag (basic setting)	Worldwide
Tension strut with hydro - mount	Do not lash down	Worldwide
Key: US = United States CDN = Canada CCC = Car Communication Computer OBD = On-Board Diagnosis		

NECESSARY

Lock car and check that locks and central locking (incl. tank cap) work properly.

Depending on equipment specification, check comfort locking function of windows and sliding sunroof.

Check function and ease of movement at:

- Door/luggage compartment/bonnet/hood locks
- Door brakes
- Door/engine hood/bonnet/fuel filler cap/rear lid hinges
- Arrester hooks on engine bonnet/hood

and apply oil or grease if necessary.

00 00 ... MICROENCAPSULATED SCREWS

Screw locking is a means to preventing a screwed connection from being loosened by external influences.

After the screw has been coated with the adhesive, the adhesive remains inactive until it is activated by capsule breakage when the screw is inserted and then cures at room temperature.

Installation:

- Microencapsulated screws (Loctite) must be replaced and may not be reused
- Screw connection must be completed within 20 mins. (start of curing)
- Microencapsulated screws must not be retightened
- Thread of nut must be cleaned beforehand in event of repeated use

00 00 ... OIL CHANGE IN MANUAL TRANSMISSION

- Carry out oil change in manual transmission in accordance with repair instructions, see **00 11.. ... Draining/topping up gear oil in manual transmission**

00 00 ... OIL CHANGE IN REAR DIFFERENTIAL

- Carry out oil change in rear differential in accordance with repair instructions, see **00 11 259 Oil change in rear differential incl. used oil disposal**

00 00 ... OIL CHANGE IN TRANSFER CASE

- Change oil in transfer case in accordance with repair instructions

00 00 ... OUTPUT SHAFTS: CHECKING GAITERS FOR LEAKS

- Rotate rear left and right wheels by hand; in so doing, check inner and outer gaiters for damage such as

holes, cracks or porosity

- Check gaiters for leaks (emerging grease)
- Check that strap retainers are securely attached to gaiters and whether any straps are missing
- On all-wheel drive vehicles the same procedure applies to the output shafts on the front axle

00 00 ... POWER STEERING/RIDE-HEIGHT CONTROL: VISUAL INSPECTION FOR LEAKS, CHECKING FLUID LEVEL, TOPPING UP FLUID IF NECESSARY

Visual inspection and leak test

Check connections, hoses and steering gear for traces of fluid.

Checking fluid level

Check fluid level with engine switched off at expansion tank of power steering/ride-height control system.

If necessary, add hydraulic fluid (refer to Service Information Operating Fluids) up to Max. marking (1).

IMPORTANT: If the fluid level has dropped to the Min. marking (2), you must check the power steering and ride-height control for leaks and issue a separate invoice for this work.
It is not enough merely to top up the fluid.

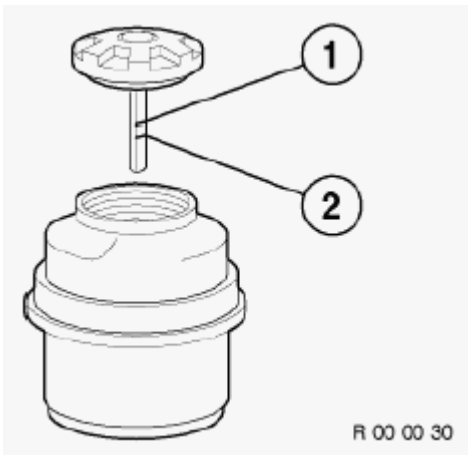


Fig. 8: Fluid Level

Courtesy of BMW OF NORTH AMERICA, INC.

00 00 ... RAISING BMW MULTI-TRAILER

CAUTION: Twin-strut underfloor platforms and twin-pillar lifting platforms are suitable for raising the BMW multi-trailer.
Lifting platforms with drive-on surfaces are not suitable for raising in order to carry out maintenance and repair work.

The lifting platform must comply with the relevant statutory accident prevention regulations and be serviced according to the manufacturer's instructions. It is essential to follow the lifting platform operating instructions, in particular the safety instructions and carrying capacity!

Make sure you adhere to the BMW-recommended work area of 5 x 7 m and to an escape route of 0.6 m between two lifting platforms.

Before raising the BMW multi-trailer, please observe the following points:

- Raise the trailer only when it is unloaded
- Remove a supplied loading ramp from the loading ramp frame so that all chassis areas of the BMW multi-trailer are freely accessible
- There must be sufficient clearance between the carrier arms/flat girder bridges and the GFK aprons or the front guard of the BMW multi-trailer
- The BMW multi-trailer must always be positioned in the middle of the lifting platform.

CAUTION: You will need special additional supports for the lifting platform in order to bridge the difference in height between longitudinal member and lower edge of GFK side apron or front guard of the BMW multi-trailer. The minimum height of the additional supports is 145 mm. Use only the additional supports approved by the platform manufacturer or specified in these repair instructions.

You will find appropriate examples in the repair instructions for the majority of lifting platforms present in BMW workshops. For lifting platforms that are not named, the relevant manufacturers will offer you appropriate additional supports. Please contact directly the manufacturer of the lifting platform used in your dealership.

CAUTION: The BMW multi-trailer may only be raised by its longitudinal members. Do not under any circumstances raise the BMW multi-trailer by the GFK aprons. Make sure the additional supports bear the longitudinal members over their entire width and no attachments or wiring harnesses are touched or jammed. Check the securing equipment of the additional supports for correct seating. Under no circumstances should any work be carried out underneath the BMW multi-trailer if it is not adequately secured against slipping off the lifting platform.

The areas (2) on the longitudinal members (1) marked in the adjacent diagram are the best areas for attaching the additional supports.

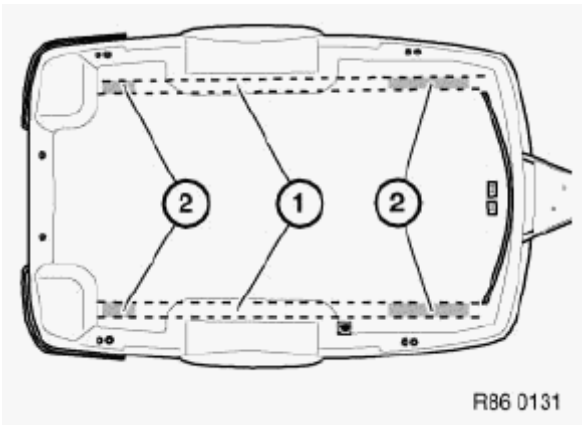


Fig. 9: Longitudinal Member Additional Support Areas
 Courtesy of BMW OF NORTH AMERICA, INC.

General notes on using twin-pillar lifting platforms

For the twin-pillar lifting platforms described, the BMW multi - trailer is positioned in the direction of travel on the platform. For lifting platforms which do not create sufficient clearance between disk wheel and carrier arms, move the BMW multi trailer against the direction of travel onto the platform.

Becker & Soumlhne twin-strut underfloor platform

The BMW multi-trailer can only be raised if it is supported at right angles to the direction of travel. For raising, use the high additional supports (1) of Becker & Soumlhne.

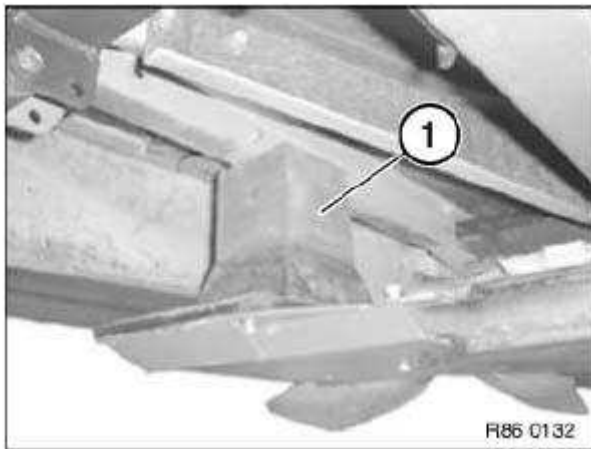


Fig. 10: High Additional Supports
 Courtesy of BMW OF NORTH AMERICA, INC.

CAUTION: Also lash the BMW multi-trailer to the flat girder bridges of the lifting platform. Flag the protruding tow hitch and the drawbar member of the BMW multi-trailer conspicuously so as to prevent injury, e.g. with a red cloth.

MAHA twin-pillar lifting platform

The BMW multi-trailer can only be raised if you use the support plate attachment sleeves for transporters (1). Position the axle of the BMW multi-trailer in the direction of travel in front of the pillars of the platform in order to obtain the specified lifting ranges and to establish sufficient clearance between disk wheel and carrier arms. The long carrier arms raise the front and the short carrier arms raise the rear of the BMW multi-trailer.

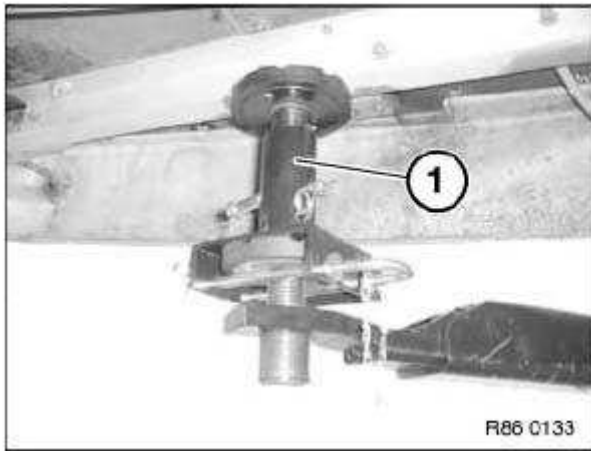


Fig. 11: MAHA Twin-Pillar Lifting Platform Transporters
Courtesy of BMW OF NORTH AMERICA, INC.

Romaico-Lift twin-pillar lifting platform

The BMW multi-trailer can only be raised if you use the 146 mm high attachments (1). Position the axle of the BMW multi-trailer in the direction of travel in front of the pillars of the platform in order to obtain the specified lifting ranges and to establish sufficient clearance between disk wheel and carrier arms. The long carrier arms raise the front and the short carrier arms raise the rear of the BMW multi-trailer.

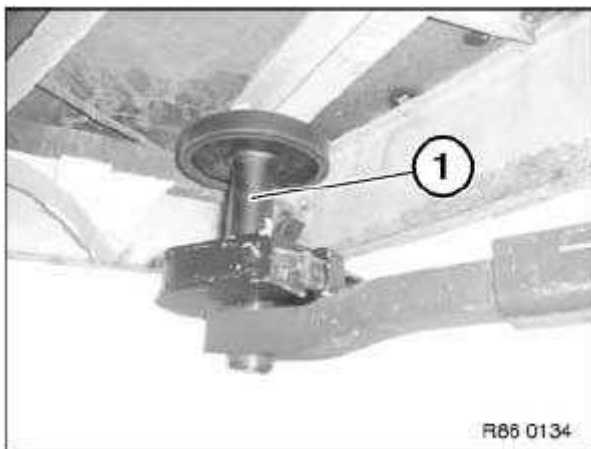


Fig. 12: Romaico-Lift Twin-Pillar Lifting Platform High Attachments
Courtesy of BMW OF NORTH AMERICA, INC.

The BMW multi-trailer can be serviced or repaired in conjunction with a working pit if the following measures are taken into consideration. The BMW multi-trailer must be secured against slipping/tilting sideways. The drawbar jockey wheel must be firmly secured against rolling.

00 00 ... REPLACING SPARK PLUGS

- Replace spark plugs in accordance with repair instructions, see **12 12 011 REPLACING ALL SPARK PLUGS (N42, N40, N46, N45, N52, N52K, N51)**

00 00 ... RESETTING SERVICE INTERVAL INDICATOR ACCORDING TO FACTORY SPECIFICATIONS

Special tools required:

- 61 1 110

For vehicles with diagnosis socket in engine compartment:

Necessary preliminary tasks:

- Switch ignition on.
- Attach resetter (special tool 61 1 110) to diagnosis socket in engine compartment

Resetting engine oil service

Press yellow button (1) for engine oil service.

Green lamp (2) lights up.

Wait until yellow lamp (3) lights up and then goes out again.

Check that oil service indicator has been reset.

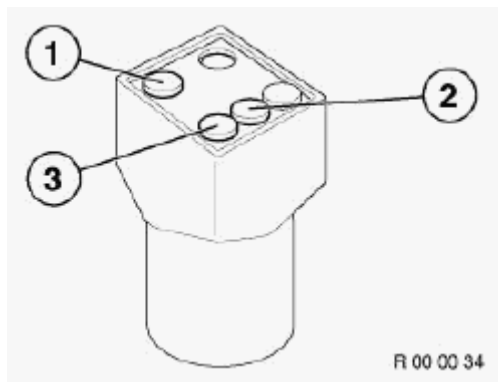


Fig. 13: Oil Service Indicator Green Lamp, Yellow Button And Lamp
Courtesy of BMW OF NORTH AMERICA, INC.

Reset service

Press red button (1) for inspection.

Green lamp (2) lights up.

Wait until red lamp (3) lights up and then goes out again.

Turn off ignition, wait 20 seconds and repeat procedure in order to adapt interval of annual inspection to inspection.

Check that service interval indicator has been reset.

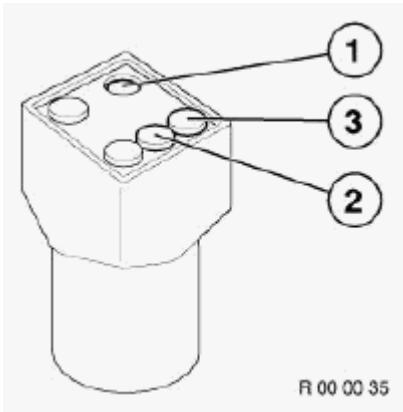


Fig. 14: Oil Service Indicator Green Lamp, Red Button And Lamp
Courtesy of BMW OF NORTH AMERICA, INC.

For vehicles without diagnosis socket in engine compartment:

For vehicles which do not have a diagnosis socket in the engine compartment, the service interval indicator is reset via the instrument cluster or the Diagnosis and Information System (DIS).

For details of the exact procedure, please refer to the Owner's Handbook for the vehicle in question or the Diagnosis and Information System (DIS).

00 00 ... SEAT BELTS: CHECKING CONDITION OF BELT STRAP, FUNCTION OF INERTIA REEL MECHANISM, LOCKING REEL, BELT BUCKLE

Belt strap, retractor mechanism, belt interlock

Pull out strap and make sure it emerges without jerking.

Check belt strap for

- folding
- unraveling

- pinches
- cracks and tears
- traces of melting

Retract belt strap; here the inertia reel mechanism must retract the strap automatically and without squeaking noises, the last section of the strap may have to be fed in.

Pull out belt strap in short tugs - locking reel must lock.

Belt buckle

The tongue on the belt strap must easily snap into place with an audible click.

When the "Press" button is pressed, the tongue must be ejected from the buckle under spring pressure.

NOTE: If the seat belt is damaged, you must replace the seat belt completely after consulting the customer; issue a separate invoice for this work. Instructions on how to proceed, refer to 72 11 ... CHECKING AUTOMATIC SAFETY BELT .

00 00 ... STEERING COMPONENTS: CHECKING FOR ZERO CLEARANCE, LEAKS, DAMAGE AND WEAR

Checking play:

- Steering wheel:

Move steering wheel back and forth and check for play

- Tie rod joint:

There must no clearance between tie rod arm (2) and tie rod joint (1).

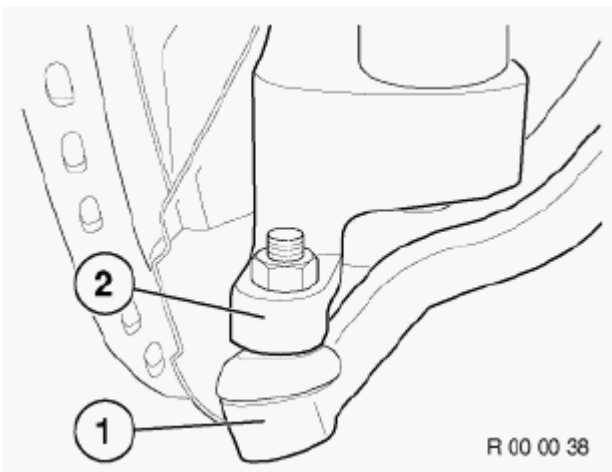


Fig. 15: Tie Rod Arm And Joint
Courtesy of BMW OF NORTH AMERICA, INC.

Checking for leaks:

The following illustration shows the arrangement of the power steering components and lines.

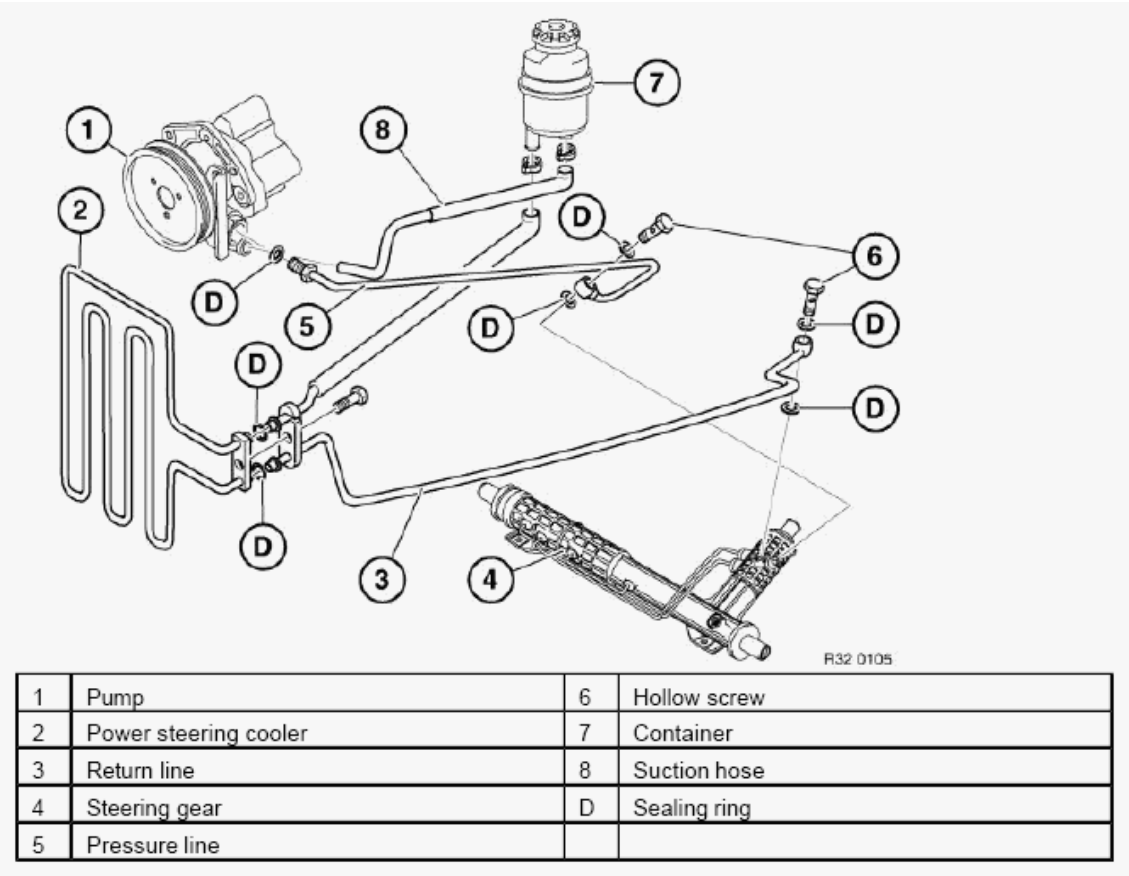


Fig. 16: Power Steering Components
Courtesy of BMW OF NORTH AMERICA, INC.

Check all visible connections, hoses, lines and steering gear for traces of fluid.

Checking for damage and wear:

Check gaiters, flexible disc and axle and tie rod sleeves for damage (e.g. cracks, holes), for leaks or missing clamping bands on gaiters.

00 00 ... STEERING COMPONENTS: CHECKING FOR ZERO CLEARANCE, LEAKS, DAMAGE AND WEAR

Checking play:

- For hydraulically assisted steering systems, the engine must be running

- For electrically assisted steering systems, the ignition must be on
- Steering wheel:

Move steering wheel back and forth and check for play

- Tie rod joint:

There must no clearance between tie rod arm (2) and tie rod joint (1).

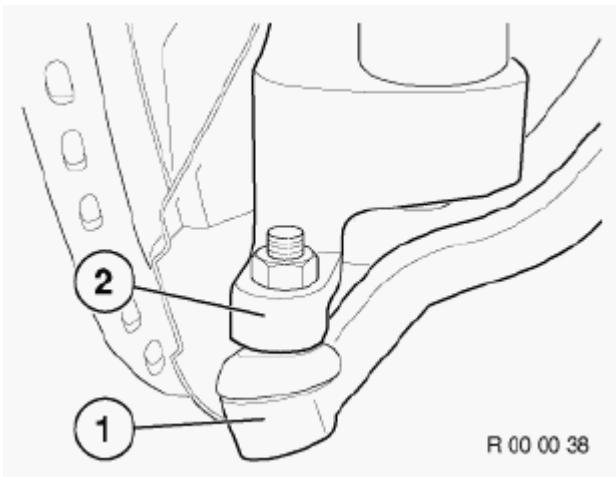


Fig. 17: Tie Rod Arm And Joint

Courtesy of BMW OF NORTH AMERICA, INC.

Checking for leaks:

The following illustration shows the arrangement of the power steering components and lines.

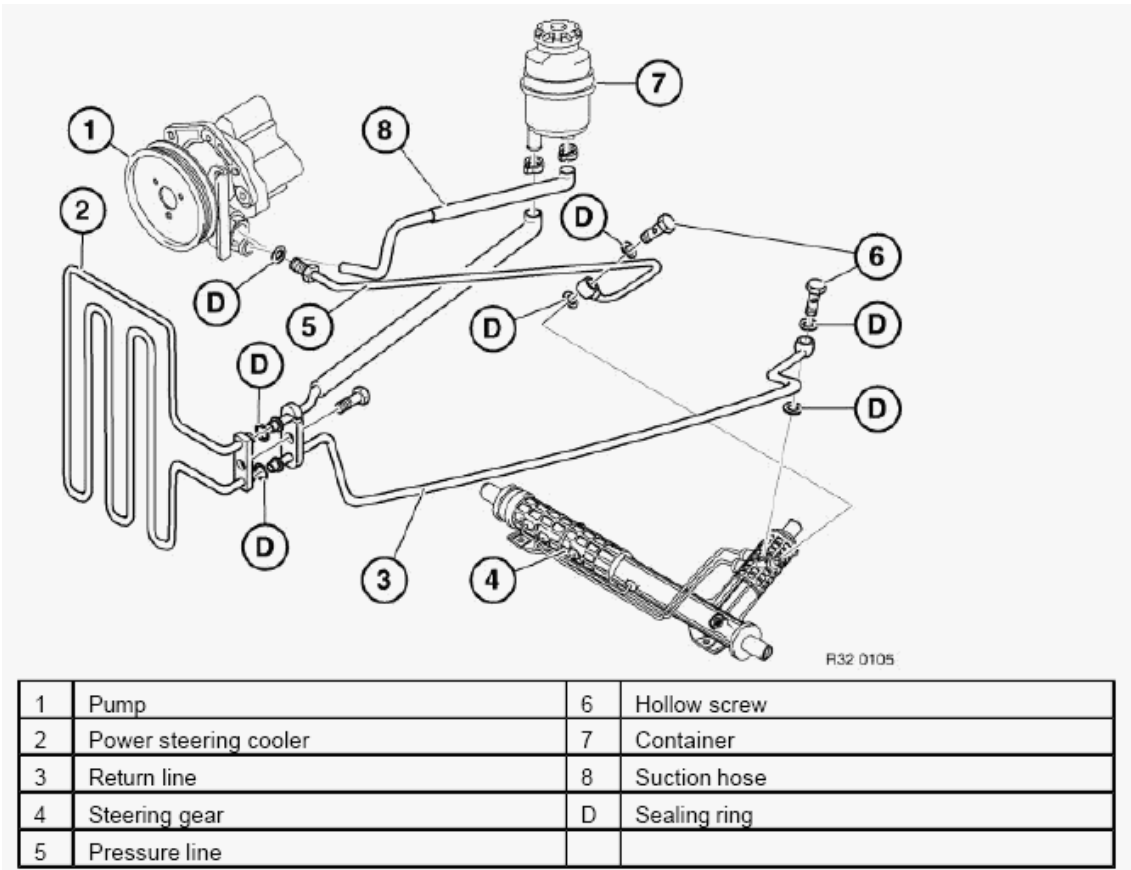


Fig. 18: Power Steering Components
Courtesy of BMW OF NORTH AMERICA, INC.

Check all visible connections, hoses, lines and steering gear for traces of fluid.

Checking for damage and wear:

Check gaiters, flexible disc and axle and tie rod sleeves for damage (e.g. cracks, holes), for leaks or missing clamping bands on gaiters.

00 00 ... STEERING FLUID RESERVOIR: CHECK OIL LEVEL.

IMPORTANT: Adhere to the utmost cleanliness. Do not allow any dirt to enter the hydraulic system.
Using contaminated equipment to add fluid may introduce dirt particles into the fluid reservoir and significantly reduce the service life of the power steering system. Do not use any filler funnels or similar!

Visual inspection and leak test

Check connections, hoses and steering gear for traces of fluid.

Checking fluid level

Check fluid level with engine switched off at expansion tank of power steering/ride-height control system. The fluid temperature should be approx. 20°C here.

Ensure that the cap is fully screwed in prior to the fill level check.

If necessary, add hydraulic fluid up to Max. marking (1).

IMPORTANT: If the fluid level has dropped to the Min. marking (2), you must check the power steering and ride-height control for leaks and issue a separate invoice for this work.
It is not enough merely to top up the fluid.

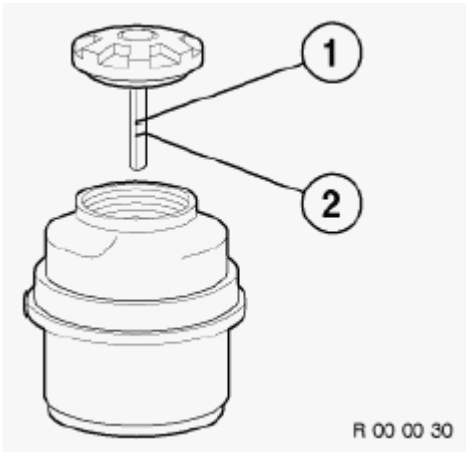


Fig. 19: Fluid Level

Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: To avoid mix-ups when filling with hydraulic fluid, mark the fluid reservoirs or their caps with identification marks.

ATF Automatic transmission fluid

CHF Pentosin CHF11S

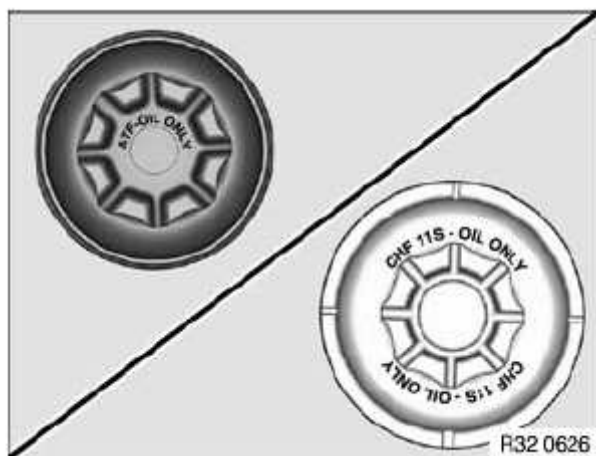


Fig. 20: Fluid Reservoir Caps With Identification Marks
 Courtesy of BMW OF NORTH AMERICA, INC.

00 00 ... TRANSMISSION (ALL GEARS): VISUAL INSPECTION FOR LEAKS.

- Inspect visible area of all transmissions for traces of fluid, remove underbody protection if necessary

Rectify identified faults after consulting with customer and issue a separate invoice

00 00 ... TIRES: CHECKING INFLATION PRESSURE, CORRECTING IF NECESSARY (INCL. SPARE WHEEL), CHECKING EXTERNAL CONDITION, TREAD DEPTH, PATTERN. IN EVENT OF NONUNIFORM WEAR, CARRY OUT MEASUREMENT AND CORRECTION OF WHEEL ALIGNMENT

- **Checking tire inflation pressure:**
 - Check tire inflation pressure in accordance with information plate on B-pillar
 - The inflation pressure in the spare wheel must be 0.5 bar higher than the maximum specified value on the information plate
 - If necessary, initialize Run Flat Indicator, see **36 11 500 INITIALIZING RUN FLAT INDICATOR (RPA)**
- **Checking tire condition:**
 - Check tread depth of all tires with tire tread gauge
 - Check tire tread surfaces and side walls for incisions and foreign particles such as nails or screws
 - Check tire tread pattern for localized flattening and wear on one side; if necessary, carry out wheel/chassis alignment after consulting with customer and issue a separate invoice for this work

NOTE:

- For details of approved wheel/tire combinations, refer to KSD CD
- For reasons of driving safety, only use tires of the same type and tread pattern on a single vehicle
- Inform customer of any incorrect or worn tires

00 00 ... TIRES: CHECKING INFLATION PRESSURE, CORRECTING IF NECESSARY (INCL. SPARE WHEEL), CHECKING EXTERNAL CONDITION, TREAD DEPTH, PATTERN○ **Checking tire inflation pressure:**

- Check tire inflation pressure in accordance with information plate on B-pillar
- The inflation pressure in the spare wheel must be 0.5 bar higher than the maximum specified value on the information plate
- Initialize Run Flat Indicator, see **36 11 500 INITIALIZING RUN FLAT INDICATOR (RPA)**

○ **Checking tire condition:**

- Check tread depth of all tires with tire tread gauge
- Check tire tread surfaces and side walls for incisions and foreign particles such as nails or screws
- Check tire tread pattern for localized flattening and wear on one side; if necessary, carry out wheel/chassis alignment after consulting with customer and issue a separate invoice for this work

NOTE:

- **For details of approved wheel-tyre combinations, refer to KSD CD**
- **For reasons of driving safety, only use tires of the same type and tread pattern on a single vehicle**
- **Inform customer of any incorrect or worn tires**

00 00 ... UNDERBODY INCL. ALL VISIBLE COMPONENTS: CHECKING FOR DAMAGE, LEAKS, CORROSION

○ Visually inspect underbody:

- For leaks (transmission, brake components, steering)
- Damage to underbody
- Corrosion on underbody

IMPORTANT: If damage to the underbody is identified:

- **If necessary, remove panels from underbody.**
- **Check mountings and fixtures and brake and fuel lines for damage and correct installation position.**

Rectify identified faults after consulting with customer and issue a separate invoice.

00 00 ... UPKEEP MEASURES FOR STORED VEHICLES (NEW AND USED CARS) AND VEHICLES TO BE LAID UP AT CUSTOMER'S PREMISES**VEHICLES AND IMPLEMENTATION CHART**

Measure	Vehicles	Implementation

2007 BMW X3

MAINTENANCE Maintenance & OE General Information - X3

Renew outer skin preservation (new cars must always be stored in preserved condition; preservation/depreservation instructions)	New cars	every 6 months; Tropical countries every 4 months
Release parking brake	New cars	in general
	Used cars	in general
	Customer cars to be laid up (instructions to customer)	in general
Engage gear or selector lever position "P" for automatic	New cars	in general
	Used cars	in general
	Customer cars to be laid up (instructions to customer)	in general
Check covering of interior equipment	New cars	in general
Increase tire inflation pressure to 3.5 bar	New cars	in general
	Used cars	in general
	Customer cars to be laid up (instructions to customer)	in general
If battery master switch is fitted, switch off	New cars	in general
Charge battery	New cars	every 6 weeks batteries disconnected from vehicle electrical system every 12 weeks in general before handover to customer
	Used cars	every 6 weeks batteries disconnected from vehicle electrical system every 12 weeks
	Customer cars to be laid up (instructions to customer)	every 6 weeks batteries disconnected from vehicle electrical system every 12 weeks
Change brake fluid and reset service interval indicator (clock symbol only)	New cars	lay-up periods > 6 months, change before handover of vehicle to customer
	Used cars	lay-up periods > 6 months, change before handover of

2007 BMW X3

MAINTENANCE Maintenance & OE General Information - X3

		vehicle to customer
Check convertible top for possible damage	New cars	in general before handover to customer
	Used cars	in general before handover to customer
Park convertibles, if possible, under a roof	New cars	in general
	Used cars	in general
	Customer cars to be laid up (instructions to customer)	in general
Check for damage to paintwork and exterior/interior equipment	New cars	in general before handover to customer
	Used cars	in general before handover to customer
Change engine oil and oil filter when engine is at normal operating temperature	New cars	from 12 months lay-up period before handover of vehicle to customer
	Used cars	from 12 months lay-up period before handover of vehicle to customer
	Customer cars to be laid up (instructions to customer)	from 12 months lay-up period before handover of vehicle to customer
Check coolant concentrate	Used cars	in general
	Customer cars to be laid up (instructions to customer)	in general
Apply hand and foot brakes when dry	New cars	in general
	Used cars	in general
	Customer cars to be laid up (instructions to customer)	in general
Perform surface protection: Vehicle washing with inside cleaning and subsequent preservation of paintwork and chrome. Clean rubber seals on hoods/bonnets, rear lids and doors and apply talc or glycerine. Perform cleaning, preservation and subsequent treatment of engine, engine	Used cars	in general
	Customer cars to be laid up (instructions to customer)	in general

2007 BMW X3

MAINTENANCE Maintenance & OE General Information - X3

compartment, underbody, axles and assemblies with BMW-approved materials.		
Switch on A/C system once a month for 10 minutes	Used cars	necessary in order to retain full operational capability of gaskets and expansion valve (omitted in case of R134a refrigerant, identified by rating plate in engine compartment)
	Customer cars to be laid up (instructions to customer)	necessary in order to retain full operational capability of gaskets and expansion valve (omitted in case of R134a refrigerant, identified by rating plate in engine compartment)

00 00 ... WINDSCREEN WASH/WIPE SYSTEM: CHECKING WASHER FLUID RESERVOIR AND SPRAY NOZZLE ADJUSTMENT

- Check wiper blades for cracks; if necessary, replace wiper blades after consulting with customer
- Check wipe pattern for smearing; if necessary, replace wiper blades after consulting with customer
- The spray jet must emerge uniformly from the spray nozzle, replace nozzle if necessary and issue a separate invoice.
- Check spray nozzle adjustment of windscreen washer system, adjust if necessary

(On the E85 and E83 the spray nozzles are preset at the factory and cannot be adjusted later)

- Check spray nozzle adjustment of headlight washer system, adjust if necessary, refer to (On the E85 and E83 the spray nozzles are preset at the factory and cannot be adjusted later)

IMPORTANT: Do not under any circumstances use a needle or similar to adjust the spray nozzles as such an implement would damage the water channels in the nozzle!

00 00 ... WINDSCREEN WASHER SYSTEM AND INTENSIVE CLEANING SYSTEM: CHECKING FLUID LEVEL, TOPPING UP IF NECESSARY

- Top up windscreen washer fluid reservoir, if necessary rear window washer fluid reservoir and (depending on equipment specification) intensive cleaning reservoir up to edge or mark.

IMPORTANT: A ph-neutral BMW window cleaning agent (antifreeze in winter) must always be added to the water.

00 00 ... WINDSCREEN WASHER SYSTEM: CHECKING FLUID LEVEL, TOPPING UP IF NECESSARY

- Top up windscreen washer fluid reservoir, if necessary rear window washer fluid reservoir and (depending on equipment specification) intensive cleaning reservoir up to edge or mark.

IMPORTANT: A ph-neutral BMW window cleaning agent (antifreeze in winter) must always be added to the water.

00 00 005 INTERROGATE FAULT MEMORIES IN DIAGNOSIS SYSTEM

Connect diagnostic system to OBD socket.

Switch on ignition.

Carry out vehicle identification.

Click on Brief test.

The brief test is carried out.

NOTE: For motor vehicle diagnostics, the brief test is essential for evaluating possible stored diagnostic trouble codes. In the brief test, the control units are physically identified in succession and their fault memories read out. If the fault memory has been read out, the faults appear in the "Fault pattern selection" mask in the "Fault memory contents" field.

00 00 250 BMW ENGINE OIL SERVICE INCL. SUPPLEMENTARY SERVICE (N52K)

Special tools required:

- 11 9 240

The FRU item 00 00 250 comprises the BMW engine oil service incl. supplementary service.

Only the engine oil service will be described in these repair instructions.

The supplementary service is made up of the following operations which must be taken from the relevant repair instructions:

- Reset service interval indicator according to factory specification, see **00 00 ... Resetting service interval indicator according to factory specifications**
- Replace microfilter for interior ventilation
- Check brake lining thickness, see **34 00 010 CHECKING THICKNESS OF BRAKE PAD**
- Adjust handbrake/parking brake, see **34 10 014 ADJUSTING HANDBRAKE**
- Parking brake function check

IMPORTANT: Adhere to exact filling quantities.

**Overfilling the engine with engine oil will result in engine damage .
Checking and drip-off times must be observed.**

IMPORTANT: When working on the engine oil, coolant or fuel circuit, you must always protect the alternator against contamination.

Risk of damage!

The alternator must therefore be covered with suitable apparatus.

Recycling:

Catch and dispose of drained engine oil in a suitable container.

Observe country-specific waste-disposal regulations.

NOTE: Adhere to the following work steps in sequence:

- 1. Open oil filter cap.**
- 2. Release screw plug in oil sump.**

NOTE: Picture shows the E93 by way of example. Other model series may differ in certain details.

Release oil filter cap with special tool 11 9 240 .

Engine oil flows out of the oil filter housing and back into the oil sump.



Fig. 21: Special Tool (11 9 240)

Courtesy of BMW OF NORTH AMERICA, INC.

Remove and insert oil filter element (1) in direction of arrow.

Installation:

Replace oil filter element (1) and sealing rings (2).*Installation:*

Moisten sealing rings (2) with engine oil.

Tightening torque: 11 42 1AZ, see **11 42 OIL FILTER ELEMENT WITH CONNECTIONS** .

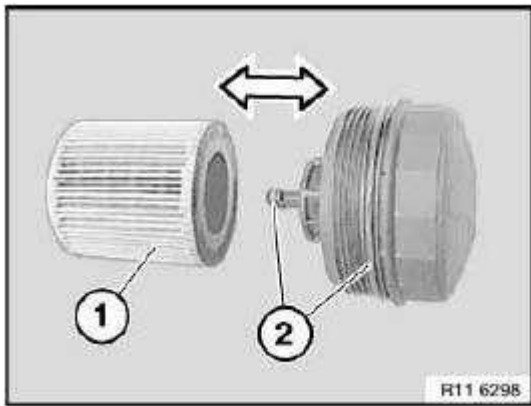


Fig. 22: Sealing Rings

Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: For purposes of clarity, the picture shows the assembly underside protection and reinforcement plate removed.

Unclip service opening on reinforcement plate.

Open screw plug (1) in oil sump.

Drain engine oil.

*Installation:***Replace sealing ring.**

Tightening torque: 11 13 1AZ, see **11 13 OIL PAN** .

Pour in engine oil.

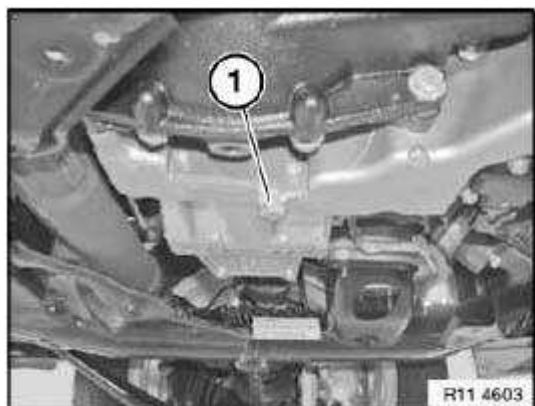


Fig. 23: Screw Plug

Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: Start engine and run at idle until oil pressure warning lamp goes out.

Turn off engine.

Check oil filter cap and screw plug (1) on oil sump for leaks.

Assemble engine.

Checking engine oil level:

- Park vehicle on a horizontal surface
- Allow engine at normal operating temperature to run for three minutes with increased revs (approx. 1100 rpm)
- Read off engine oil level in instrument cluster or on Control Display
- Top up engine oil if necessary

00 11 ... CHECKING/TOPPING UP OIL LEVEL IN REAR DIFFERENTIAL

IMPORTANT: Risk of damage!

To avoid serious damage to the rear differential, it is essential to use only approved gear oils in the differential.

Undo oil filler plug (1).

Check oil level.

If necessary, pour in rear differential oil up to lower edge of opening for oil filler plug (1).

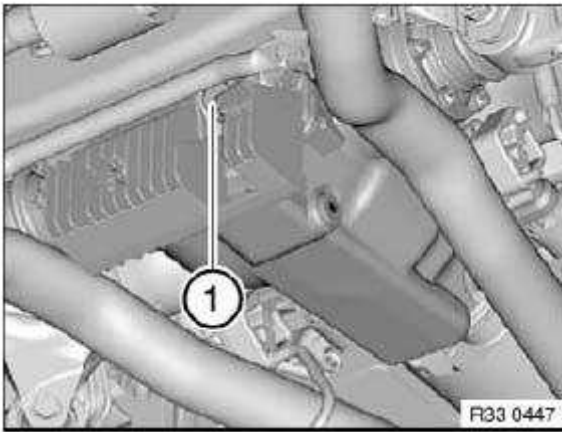


Fig. 24: Oil Filler Plug

Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

- A. A) Oil filler plug with sealing ring:

Replace sealing ring (1).

Tightening torque: 33 11 3AZ, see **33 11 REAR DIFFERENTIAL CASE WITH COVER** .

- B. B) Oil filler plug with O-ring:

Replace oil filler plug (2).

Tightening torque: 33 11 9AZ, see **33 11 REAR DIFFERENTIAL CASE WITH COVER** .

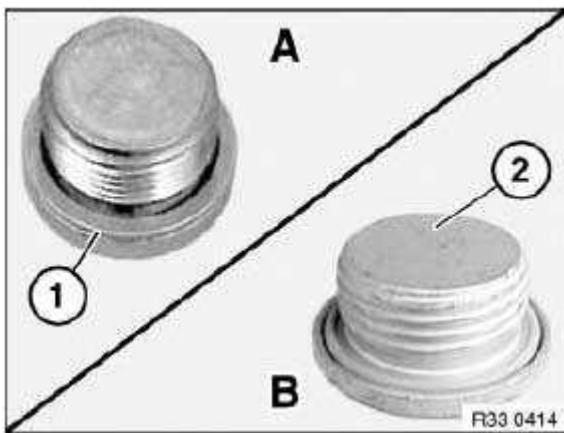


Fig. 25: Sealing Ring And Oil Filler Plug

Courtesy of BMW OF NORTH AMERICA, INC.

Draining gear oil:

- Release oil drain plug (1) and filler plug (2).
- Clean oil drain plug (1) and screw in.

Tightening torque: 23 00 4AZ, see **23 00 TRANSMISSION IN GENERAL** .

Fill transmission with ATF.

- Pour in gear oil until overflowing.
- Tighten in filler screw (2).

Tightening torque: 23 00 4AZ, see **23 00 TRANSMISSION IN GENERAL** .

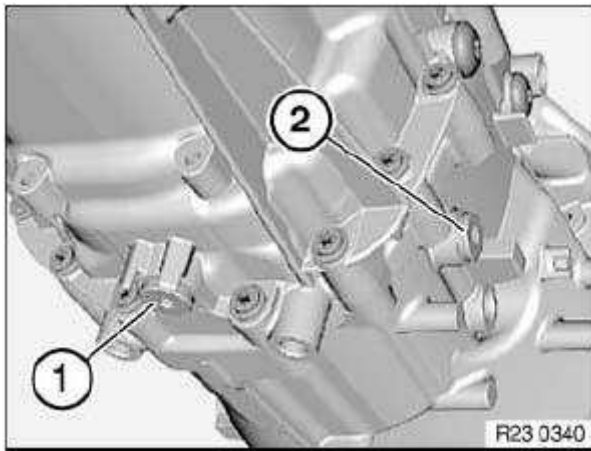


Fig. 26: Oil Drain And Filler Plug

Courtesy of BMW OF NORTH AMERICA, INC.

00 11 237 CHECKING/TOPPING UP FLUID LEVEL IN AUTOMATIC TRANSMISSION (GA6L45R)

IMPORTANT: Use only the approved transmission fluid.

Failure to comply with this requirement will result in serious damage to the automatic transmission!

Remove exhaust system bracket (1).

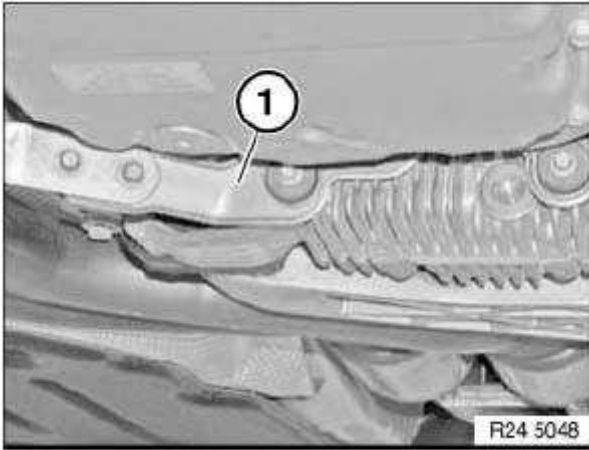


Fig. 27: Exhaust System Bracket

Courtesy of BMW OF NORTH AMERICA, INC.

Topping up transmission fluid after a repair:

Stand vehicle on a level surface and secure against rolling off.

Undo filler plug (1).

Installation:

Replace sealing ring.

Top up transmission fluid until it emerges from filling orifice.

Start engine.

Replenish transmission fluid until it emerges from filling orifice.

Screw in filler plug (1).

Tightening torque: 24 11 7AZ, see **24 11 TRANSMISSION CASE, OIL SUMP** .

Press brake pedal to floor and shift through all gears several times at idle speed. Then shift to "P" position (Park).

Then check fluid level.

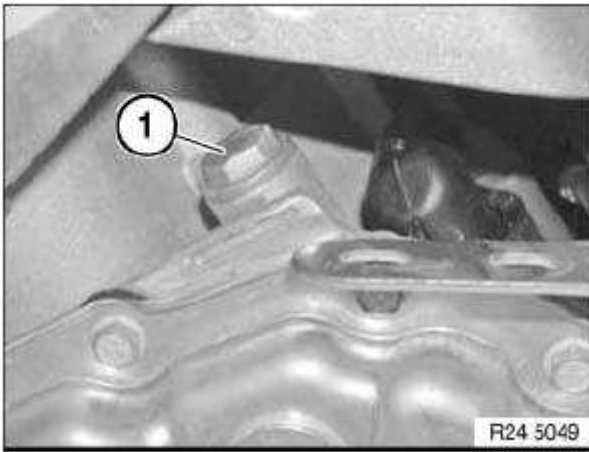


Fig. 28: Transmission Filler Plug

Courtesy of BMW OF NORTH AMERICA, INC.

Checking fluid level:

- Connect BMW Diagnosis and Information System (DIS) to vehicle.
- Call up Service functions (drive).
- Carry out fluid level check in accordance with instructions.

00 11 259 OIL CHANGE IN REAR DIFFERENTIAL INCL. USED OIL DISPOSAL

IMPORTANT: Risk of damage!

To avoid serious damage to the rear differential, it is essential to use only approved transmission oils in the differential.

NOTE:

The oil does not need to be changed in rear differentials carrying the "Life-Time-Oil" sticker.

Only change oil when rear differential is at normal operating temperature.

Recycling:

Catch and dispose of emerging differential oil.

Observe country-specific waste-disposal regulations

Oil drain plug present:

Place oil collecting apparatus underneath.

Remove oil drain plug (1).

Drain and dispose of differential oil.

Undo oil filler plug (2).

Add differential oil up to lower edge of opening for oil filler plug (2).

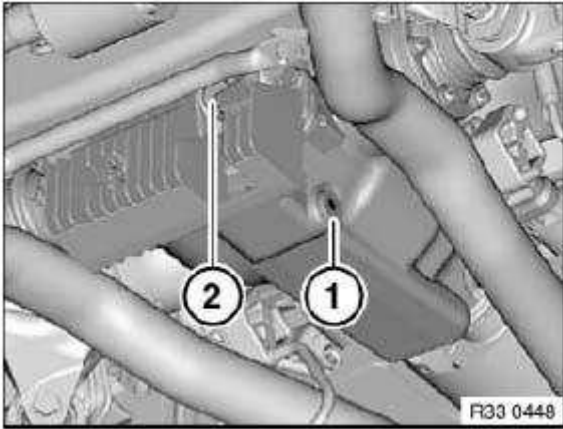


Fig. 29: Oil Drain And Filler Plug

Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

- A. Oil drain or oil filler plug with sealing ring:

Replace sealing ring (1).

Tightening torque: 33 11 3AZ, see **33 11 REAR DIFFERENTIAL CASE WITH COVER** .

- B. Oil drain or oil filler plug with O-ring:

Replace oil drain or oil filler plug (2).

Tightening torque: 33 11 9AZ, see **33 11 REAR DIFFERENTIAL CASE WITH COVER** .

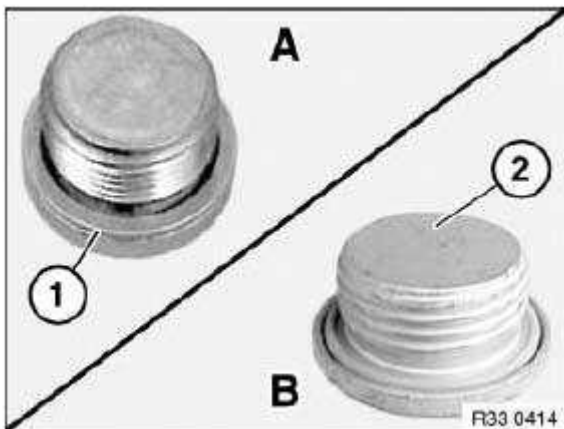


Fig. 30: Sealing Ring And Oil Filler Plug

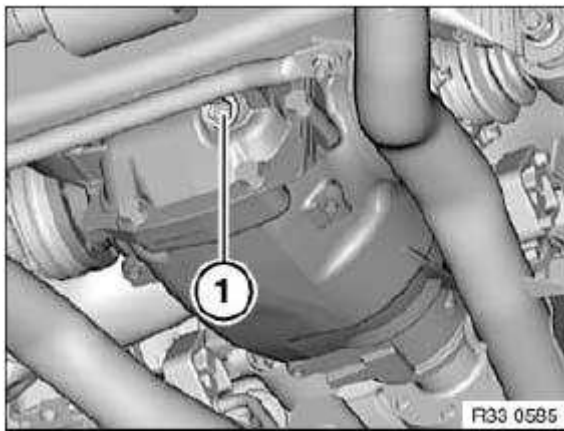
Courtesy of BMW OF NORTH AMERICA, INC.

No oil drain plug:

Undo oil filler plug (1).

Drain and dispose of differential oil.

Add differential oil up to lower edge of opening for oil filler plug (1); if necessary, refer to Technical Data for necessary fill quantity.

**Fig. 31: Oil Filler Plug**

Courtesy of BMW OF NORTH AMERICA, INC.

Installation:**A. Oil filler plug with sealing ring:**

Replace sealing ring (1).

Tightening torque: 33 11 3AZ, see **33 11 REAR DIFFERENTIAL CASE WITH COVER** .

B. Oil filler plug with O-ring:

Replace oil filler plug (2).

Tightening torque: 33 11 9AZ, see **33 11 REAR DIFFERENTIAL CASE WITH COVER** .

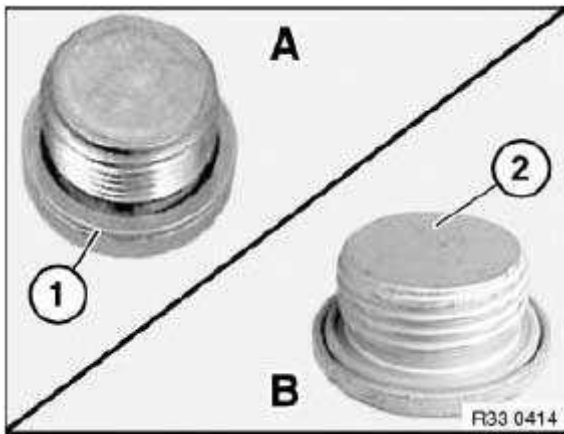


Fig. 32: Sealing Ring And Oil Filler Plug

Courtesy of BMW OF NORTH AMERICA, INC.

00 11 572 CHANGING OIL IN TRANSFER BOX (ATC 400/500)

IMPORTANT: When changing the gear oil, it is necessary to delete the self-adapting wear values in the transfer box control unit.
Use only the approved transmission fluid.

Failure to comply with this requirement will result in serious damage to the transfer box!

Catch and dispose of escaping transmission fluid.

Observe country-specific waste-disposal regulations

NOTE: ATC 500 transfer box:
Undo oil filler plug (1).
Tightening torque: 27 00 11AZ, see 27 00 TRANSFER BOX IN GENERAL .

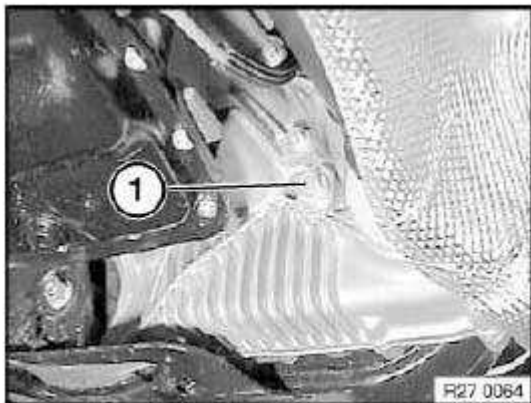


Fig. 33: Oil Filler Plug

Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: **ATC 500 transfer box:**
Remove oil drain plug (2).
Tightening torque: 27 00 11AZ, see 27 00 TRANSFER BOX IN GENERAL .



Fig. 34: Oil Drain Plug

Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: **ATC 400 transfer box:**

Release oil filler plug (1) and oil drain plug (2).

Tightening torque: 27 00 11AZ, see 27 00 TRANSFER BOX IN GENERAL .

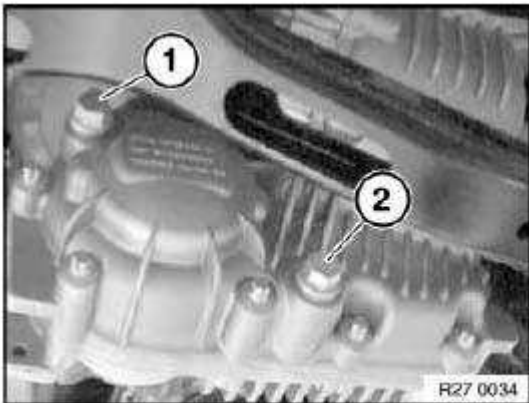


Fig. 35: Oil Filler And Drain Plug

Courtesy of BMW OF NORTH AMERICA, INC.

Installation:

Replace sealing rings.

Clean oil drain plug (2) and screw in.

Pour in gear oil up to lower edge of filler plug (1).

Tighten in filler screw (1).

Tightening torque: 27 00 11AZ, see **27 00 TRANSFER BOX IN GENERAL** .

11 00 REMOVING AND INSTALLING/REPLACING IGNITION COIL COVER (N52K)

Release screws.

Tightening torque: 11 12 6AZ, see **11 12 CYLINDER HEAD WITH CYLINDER HEAD COVER** .

Remove ignition coil cover (1).

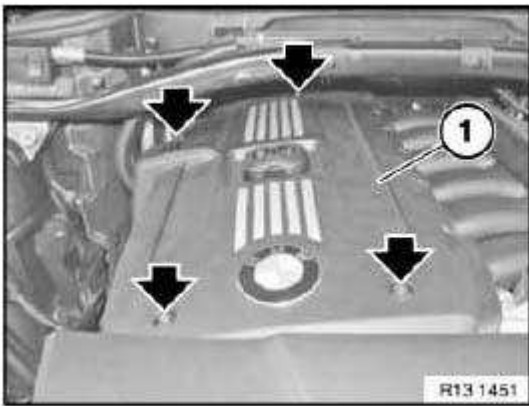


Fig. 36: Ignition Coil Cover

Courtesy of BMW OF NORTH AMERICA, INC.

86 10 ... POSITIONING OF MULTITRAILER HOOD FOR MAINTENANCE AND REPAIR WORK

IMPORTANT: At least two persons are needed to install and remove the hood from the platform.

Before installing and removing the hood, secure the BMW multitrailer and the entire combination against rolling. For this purpose, use the parking brake and the chocks of the BMW multitrailer.

The hood can also be set up and lowered with the aid of the universal lift available from BMW in conjunction with the roof racks and the hood adapter. Under no circumstances should work of any kind be carried out below the suspended hood.

For maintenance and repair work, raise the hood using a lifting platform. Twin-column lifting platforms, body lifting platforms and twin-stamp underfloor platforms are suitable. The seating plates and areas of the lifting platform must be adjustable according to the dimensions of **Fig. 37**.

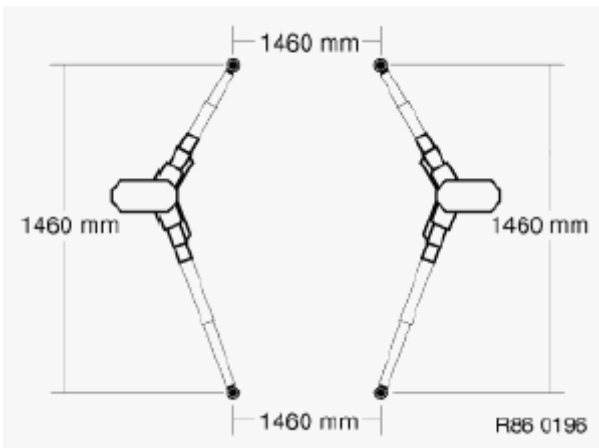


Fig. 37: Lifting Platform Adjustable Dimensions
Courtesy of BMW OF NORTH AMERICA, INC.

The lifting platform must conform to the relevant legal provisions of the accident prevention regulations and be serviced as specified. Comply with the lifting platform operating instructions, in particular the safety instructions and the carrying capacity.

Make sure you adhere to the BMW-recommended work area of 5 x 7 m and to an escape route of 0.6 m between two lifting platforms.

Please comply with the following instructions before raising the hood:

- Raise only when it is unloaded;
- Ensure sufficient clearance between the seating plates/seating areas and the GFP edge of the hood;
- The hood must always be positioned in the middle of the lifting platform.

IMPORTANT: The hood may only be raised at the pin (1). Under no circumstances may the hood be raised at the GFP edge of the hood (2). See [Fig. 38](#). Exclusively for removal of pin (1), raise the hood in the GFP area.

Also refer to:

86 21 ... REMOVING CENTERING PIN FROM MOUNTING BRACKET .

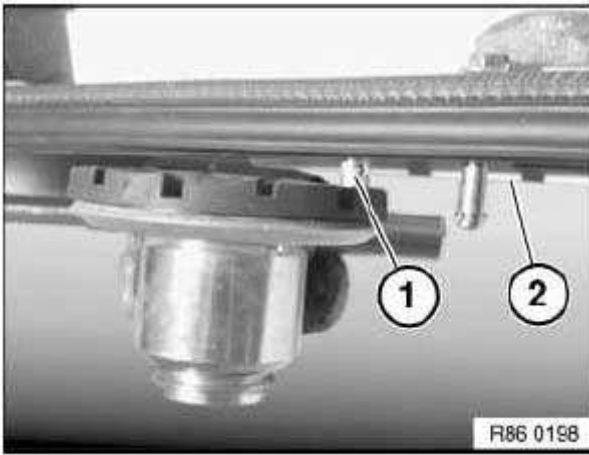


Fig. 38: Pin And Hood

Courtesy of BMW OF NORTH AMERICA, INC.

MAINTENANCE**Maintenance and General Information - Operating Fluids****1.0 INTRODUCTION**

These operating fluids specifications describe the standards which are necessary for approval and application for BMW automobiles. Operating fluids are arranged in vehicle group category and are approved for all assemblies. Before applying operating fluids, it is important to make sure that the specifications and manufacturing codes on the container conform with those on the enclosed specification list.

BMW of North America has also approved various fluids for use which are not available through the Parts Department, but may be obtained locally.

2.0 CORROSION PROTECTION FOR VEHICLE IN LONG-TERM STORAGE

Location-inside of a building whenever possible or covered parking lot (especially convertibles).

Replace engine oil and filter after engine reaches operating temperature. Run engine several minutes after replacing oil. Engine oil must be replaced every 12 months. Factory engine oil (in new cars) can remain in the engine up to 12 months.

Check/correct electrolyte level in battery cells.

Disconnect battery ground lead to avoid discharging battery through current draw of electrical equipment. Or, switch off battery main disconnect switch (if equipped).

Recharge battery.

Inspect undercoating for damage and repair as necessary.

Inspect wax coating in engine compartment, on engine, underbody and axles. Repair as necessary.

Operate air conditioner monthly for 10 minutes in order to lubricate the seals and the expansion valve. Note: The air conditioner will only work at temperatures above 37°F/3°C.

PRE-DELIVERY CARS

Replace brake fluid if car has been parked outdoors longer than six (6) months.

Fill the vehicle fuel tank with fresh fuel in order to prevent condensation inside the tank (applies only to metal fuel tanks).

Check, and if needed, correct the coolant level and concentration of long-term antifreeze and corrosion inhibitor.

Apply brakes to dry the brake discs of any moisture and spray them with a corrosion inhibitor. Spray the

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MAINTENANCE Maintenance and General Information - Operating Fluids

complete brake assemblies after parking the car at its final storage location.

Do not apply the parking brake. Brake linings could seize when the parking brake is applied for an extended period of time. Rather, engage first gear (manual transmissions) or "park" position (automatic transmissions) to hold vehicle stationary.

Increase inflation pressure on all road tires to 50 psi.

Thoroughly clean the entire car, including underside, engine and engine compartment.

3.0 CONVERSION TABLE

CONVERSION TABLE

Liters	US Gallons	US Pints	Liters	US Gallons	US Pints
0.5	0.132	1.055	8.0	2.112	16.904
1.0	0.264	2.113	9.0	2.376	19.017
2.0	0.538	4.226	10.0	2.640	21.130
3.0	0.792	6.339	11.0	2.904	23.243
4.0	1.056	8.452	12.0	3.168	25.356
5.0	1.320	10.565	13.0	3.432	27.469
6.0	1.584	12.678	14.0	3.696	29.582
7.0	1.848	14.791	15.0	3.960	31.695

Conversion Factors:

Liters in US Gallons x 0.264

US Gallons in Liters x 3.785

Liters in US Pints x 2.113

US Pints in Liters x 0.473

4.0 ALTERNATE UNIVERSAL LUBRICANTS AND WORKSHOP SUPPLIES

ALTERNATE UNIVERSAL LUBRICANTS AND WORKSHOP SUPPLIES REFERENCE

BMW P/N	Description/Application	3M P/N	Wurth P/N	Loctite P/N
81 22 9 400 208 ⁽¹⁾	Lubricant/Contact Cleaner Spray Stops electrical and mechanical faults due to water, moisture, rust, dirt and friction. Colorless, neutral, free of grease and silicone, suitable for		89360/1	24379

	all applications. Examples: Stops moisture on distributor, generator, ignition coil, starter, spark plugs, coils, relays, contacts, etc. Prevents metal parts from corroding. Stops rubber and plastic parts from aging prematurely. Applications: from -50°C to +150°C.		
81 22 9 400 229 ⁽¹⁾	Hand Cleaner Removes stubborn stains and grit without attacking skin. Contains special skin protectant. Does not clog pipes.	893900	25108
81 22 9 400 720 ⁽¹⁾	Molybdenum Disulfide (MOS2) Spray 8876 Loosens rust, eliminates squeaking and similar noises, prevent rust seizure. Displaces water on ignition components to allow quick starting. Insulates electrical systems against moisture and stops corrosion.		24378
81 22 9 407 138 ⁽¹⁾	Stain Remover Removes tar, oil and grease stains from seat covers, leather upholstery and painted plastic components.	89024	
81 22 9 407 174 ⁽¹⁾	Bearing Grease A water repellent high- pressure grease for lubricating flywheel gear rings, starter motor pinions, etc., and also as an acid-proof grease for battery terminal posts.	893530	
81 22 9 407 301 ⁽¹⁾	Loctite 574 Anaerobic, silicone sealant for aluminum flange surfaces. Provides	893574	24018

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81 22 9 407 388 ⁽¹⁾	instant sealing when flanges are assembled. Adhesive Remover Removes all residual or excess adhesive, sealing and coating compounds, wax, grease or oil films from painted and plastic surfaces, i.e. before installing front or rear spoilers and decor strips.	8984		
81 22 9 407 394 ⁽¹⁾	Loctite 380 Black cyanacrylate adhesive for joining metals, rubber, PVC.	8155	893 4103	38050
81 22 9 407 524 ⁽¹⁾	Contact Cement Powerful adhesive for leather and leatherette, rubber moldings, seats, rubber mats, noise-absorbent materials, etc. Has good heat resistance and does not attack paint. See and .	1357HP		
81 22 9 407 629 ⁽¹⁾	High-Adhesion Lubricant Long-life high-adhesion lubricant for clutch and brake linkages, spring struts, stabilizers, idler levers and pivots.	8878		20029
81 22 9 407 711 ⁽¹⁾	Universal Lube Spray Colorless lubricant with high lubricant content. Eliminates squeaks and grating noises from spring seat bases. Lubricates door stops and locks, seat adjustment mechanism, etc. Resistant to temperatures between-50°C and 120°C.	8878	893106	20029

(1) *These items are no longer available through BMW NA Parts Department.

The above alternate suppliers can be contacted below:

2007 BMW X3**MAINTENANCE Maintenance and General Information - Operating Fluids****ALTERNATE SUPPLIERS REFERENCE**

3M	Wurth USA, Inc.	Kem Krest, Inc. (Loctite)
19460 Victor Parkway	93 Grant Street	1919 Superior Street
Livonia, MI 48152	Ramsey, NJ 07446	Elkhart, IN 46515
(800) 521-8180	(800) 526-5228	(800) 285-5917

5.0 APPROVED OPERATING FLUIDS SOURCES**APPROVED OPERATING FLUIDS SOURCES REFERENCE**

Group	Description, S.I. Bulletin	Product Name, Source	Telephone
11	Engine Oil, SAE 5W-50	"Syntec FSX" Castrol Inc., Piscataway, NJ	732-980-9100
11	Oxygen Sensor Lubricant	Bostik "Never-Seez" NSBT-16 Bostik Findley, Middleton, MA	888-603-8558
11	Intake & Vacuum System Leak Detector S.I. Bulletin B 11 03 92 (3500)	"LiquiMoly (Lubro Moly) Motor Lecksucher" 2021 W.A.W.D.	800-477-9293
11	Cold Weld Epoxy	"J-B Weld" J-B Weld Company, Sulphur Springs, TX	903-885-7696
13	Loctite 290 Throttle Housing Fasteners S.I. Bulletin B 13 06 91 (3440)	"Loctite 290" Kem Krest, Inc., Elkhart, IN	800-285-5917
18	Copper Paste Exhaust System Joints S.I. Bulletin B 18 03 89 (1954)	"8945" 3M Automotive Trades Division, Livonia, MI	800-521-8180
23	Synthetic Transmission Fluid	"Mobil SHC 630" Mobil Oil Corporation	800-582-3645
34	Brake Component Lubricant S.I. Bulletins B 34 02 94 & B 34 05 98	Bostik "Never-Seez" NSBT-16 Bostik Findley, Middleton, MA	888-603-8558
36	Loctite 638 (green) Affix wheel hub covers	"Loctite 680" Kem Krest, Inc., Elkhart, IN	800-285-5917
36	Loctite Cleaner 755 Loctite 242 M5 Wheel Covers S.I. Bulletin B 36 03 90 (3182)	"Loctite Cleaning Solvent 755" "Loctite 242" Kem Krest, Inc., Elkhart, IN	800-285-5917
41	Structural Adhesive S.I. Bulletin B 41 01 95 (4150)	"DP420 Epoxy Adhesive with 3M EPX Applicator" 3M Industrial Tapes and Specialties Division, Livonia, MI	800-521-8180
54	Renax GL1	"Poliplex #1" Fuchs	800-323-7755

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		Lubricants Corp., Harvey, IL	
61	Rubberized Super Glue	"893 4103" Wurth USA, Inc., Ramsey, NJ	800-526-5228
62	Contact Cleaner Spray IC Acoustic Transmitter S.I. Bulletin B 62 04 92 (3539)	"CRC QD Contact Cleaner Spray 5101" CRC Industries, Warminster, PA	800-272-8963
63	Silicone Gasket Material Turn Signals S.I. Bulletin B 63 05 91 (3313)	"Permatex Form-A-Gasket 6B-80627" Kem Krest, Inc., Elkhart, IN	800-285-5917
64	AC System Disinfectant S.I. Bulletin B 64 08 91 (3373)	"Airguard" J.J. Products, Inc., East Orange, NJ	800-654-2356
64	AC System Treatment	"Airsept" The Auto Doctor, Tucker, GA	404-662-6778
97	Brushable Seam Sealer Seals spot-welded, riveted, or bolted seams and joints. Brushable consistency remains flexible. Retains brush marks appearance.	"893540-U" Wurth USA, Inc., Ramsey, NJ	800-526-5228
97	Body Seal, Beige Underbody Seal, Black Permanent, flexible protection against stone chipping damage. Fast drying and paintable.	"8901021" Wurth USA, Inc., Ramsey, NJ	800-526-5228
97	Seam Sealer, Grey Fast drying, paintable, silicone-free sealant for special spray gun application.	"0892091 U" "0893075 U" Wurth USA, Inc., Ramsey, NJ	800-526-5228
99	Paint Cleaner	"0893228 U" Wurth USA, Inc., Ramsey, NJ	800-526-5228
99	Machine Glaze	"Machine Cleaner 1" and "Hi-Tech Cleaner 2" Meguiar's Inc., Irvine, CA	800-854-8073
99	Paint Sealer	"Mirror Glaze 3" Meguiar's Inc., Irvine, CA	800-854-8073
99	Paint Swirl Remover	"Sealer and Reseal Glaze 7" Meguiar's Inc., Irvine, CA	800-854-8073
99		"Hi-Tech Swirl Remover 9" Meguiar's Inc., Irvine, CA	800-854-8073

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MAINTENANCE Maintenance and General Information - Operating Fluids

99	Paint Carnauba Paste Wax "Hi-Tech Yellow Wax 800-854-8073 26" Meguiar's Inc., Irvine, CA
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GENERAL INFORMATION**Maintenance and General Information - Special Tools - X3****00 MAINTENANCE AND GENERAL INFORMATION****00 0 010 SPECIAL TOOL BOARD I**

Order number: 00 0 010

Special tool board I

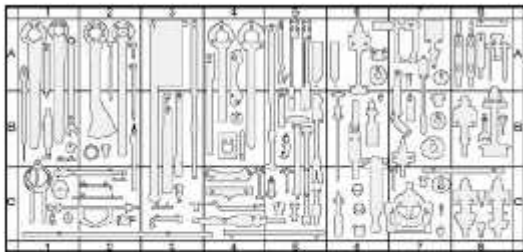
00 0 011 SPECIAL TOOL BOARD I INCL. MOUNTING FIXTURE, WITHOUT FILM SHEETING

Note: Replaced by 00 0 224

Transmission: GS6-53BZ

Order number: 00 0 011

Special tool board I incl. mounting fixture, without film sheeting



W00 0 010

Fig. 1: Special Tool Board I (00 0 011)

Courtesy of BMW OF NORTH AMERICA, INC.

00 0 020 SPECIAL TOOL BOARD II COMPLETE

In conjunction with: 00 0 230 This board can be used in a min. 4 m long moving special tool cabinet.

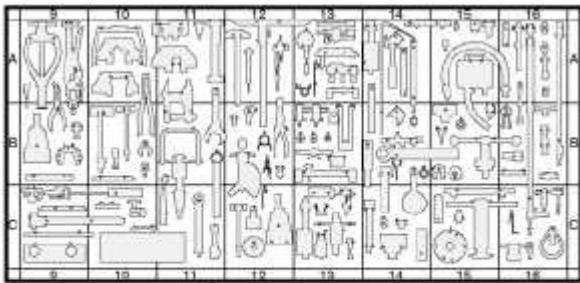
Note: Size 2 m x 1 m

Series: All models

Storage location: Tool cabinet

Order number: 00 0 020

Special tool board II complete



W00 0 020

Fig. 2: Special Tool Board II (00 0 020)
Courtesy of BMW OF NORTH AMERICA, INC.

00 0 030 SPECIAL TOOL BOARD III COMPLETE

In conjunction with: 00 0 230 This board can be used in a min. 4 m long moving special tool cabinet.

Note: Size 2 m x 1 m

Series: All models

Storage location: Tool cabinet

Order number: 00 0 030

Special tool board III complete



W00 0 030

Fig. 3: Special Tool Board III (00 0 030)
Courtesy of BMW OF NORTH AMERICA, INC.

00 0 040 SPECIAL TOOL BOARD IV COMPLETE

In conjunction with: 00 0 230 This board can be used in a min. 4 m long moving special tool cabinet.

Note: Size 2 m x 1 m

Series: All models

Storage location: Tool cabinet

Order number: 00 0 040

Special tool board IV complete

Consisting of:

3 = 00 0 043 Hook set for films 10, 11 and 12

4 = 00 0 044 Film 10 (left)

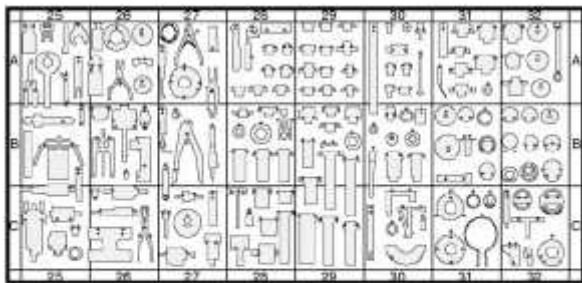
Note: For fields A/B/C 25 ... 27

5 = 00 0 045 Film 11 (center)

Note: For fields A/B/C 27/28 and 29/30

6 = 00 0 046 Film 12 (right)

Note: For fields A/B/C 30 ... 32



W00 0 040

Fig. 4: Special Tool Board IV (00 0 040)

Courtesy of BMW OF NORTH AMERICA, INC.

00 0 050 CAPTION BOARD: "SPECIAL TOOLS"

Note: With film sheet in the desired language - size 2000 mm x 215 mm

Storage location: Tool cabinet

Order number: 00 0 050

Caption board: "SPECIAL TOOLS"



Fig. 5: Caption Board "SPECIAL TOOLS" (00 0 050)
Courtesy of BMW OF NORTH AMERICA, INC.

00 0 051 FILM SHEET, GERMAN

Order number: 00 0 051

Film sheet, German



Fig. 6: Film Sheet, German (00 0 051)
Courtesy of BMW OF NORTH AMERICA, INC.

00 0 052 FILM SHEET, ENGLISH

Order number: 00 0 052

Film sheet, English



Fig. 7: Film Sheet, English (00 0 052)
Courtesy of BMW OF NORTH AMERICA, INC.

00 0 053 FILM SHEET, FRENCH

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Order number: 00 0 053

Film sheet, English



Fig. 8: Film Sheet, English (00 0 052)

Courtesy of BMW OF NORTH AMERICA, INC.

00 0 054 FILM SHEET, DUTCH

Order number: 00 0 054

Film sheet, Dutch



Fig. 9: Film Sheet, English (00 0 052)

Courtesy of BMW OF NORTH AMERICA, INC.

00 0 055 FILM SHEET, ITALIAN

Order number: 00 0 055

Film sheet, Italian



Fig. 10: Film Sheet, English (00 0 052)

Courtesy of BMW OF NORTH AMERICA, INC.

00 0 056 FILM SHEET, SPANISH

Order number: 00 0 056

Film sheet, Spanish



Fig. 11: Caption Board "SPECIAL TOOLS" (00 0 050)

Courtesy of BMW OF NORTH AMERICA, INC.

00 0 059 CAPTION BOARD WITHOUT FILM

Order number: 00 0 059

Caption board without film

00 0 060 SPECIAL TOOL BOARD V COMPLETE

In conjunction with: 00 0 230 This board can be used in a min. 4 m long moving special tool cabinet.

Note: Size 2 m x 1 m

Series: All models

Storage location: Tool cabinet

Order number: 00 0 060

Special tool board V complete

Consisting of:

3 = 00 0 063 Hook set for films 13, 14 and 15

4 = 00 0 064 Film 13 (left)

Note: For fields A/B/C 33 ... 35

2007 BMW X3

GENERAL INFORMATION Maintenance and General Information - Special Tools - X3

5 = 00 0 065 Film 14 (center)

Note: For fields A/B/C 35/36 and 37/38

6 = 00 0 066 Film 15 (right)

Note: For fields A/B/C 38 ... 40

7 = 00 0 224 Large special tool board 2 m x 1 m

Note: This special tool board serves as the back panel of basic and mounting frames and is the basis for large fixed and moving special tool boards.

In conjunction with: Hook set and films

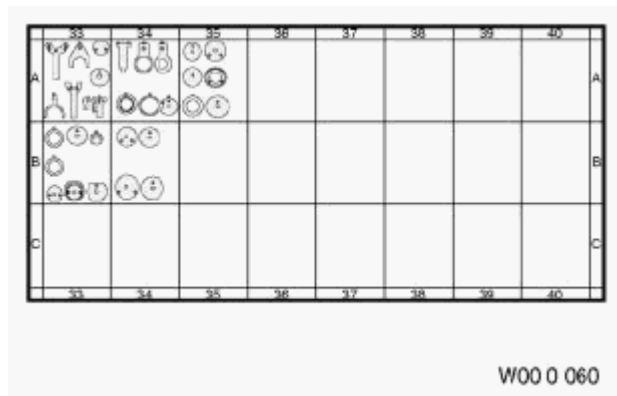


Fig. 12: Special Tool Board V Complete (00 0 060)
Courtesy of BMW OF NORTH AMERICA, INC.

00 0 070 SPECIAL TOOL CABINET, LENGTH 6 M

Note: For accommodating large or small moving special tool boards (not contained in scope of delivery) for the entire current range of special tools. Consisting of: 1x 00 0 220 complete plus 2x 00 0 221 and 2x 00 0 224

Series: All models

Order number: 00 0 070

Special tool cabinet, length 6 m

00 0 080 FOLDING INDEX

Note: Summary of tool positioning/storage locations

Storage location: Tool cabinet

SI number: 1 12 97 (202)

00 0 120 CARBOARD BOX (SET) FOR CABLE CABINET

Note: For storing adapter cables (cable cabinet reconditioning) 2 cardboard boxes are supplied at present: 00 0 121 = storage location Y1 00 0 122 = storage location Y2

SI number: 00 04 04 (104)

Order number: 00 0 120

Cardboard box (set) for cable cabinet

Consisting of:

1 = 00 0 121 Cardboard box Y1

Note: = storage location for adapter cables

2 = 00 0 122 Cardboard box Y2

Note: = storage location for adapter cables

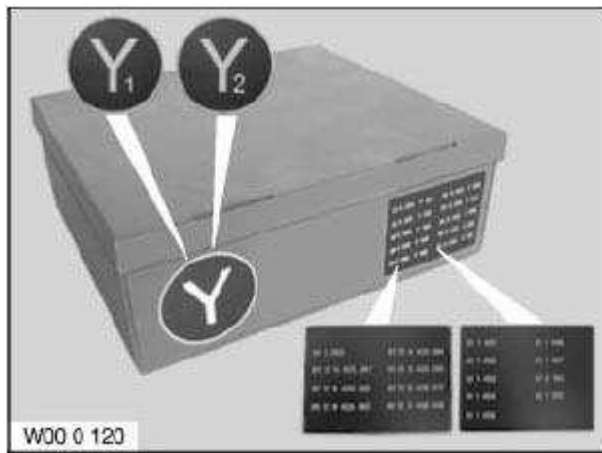


Fig. 15: Carboard Box (00 0 110)

Courtesy of BMW OF NORTH AMERICA, INC.

00 0 130 SPECIAL TOOL BOARD VI COMPLETE

In conjunction with: 00 0 230 This board can be used in a min. 4 m long moving special tool cabinet.

Note: Storage board for older tools

Series: All models

Order number: 00 0 130

Special tool board VI complete

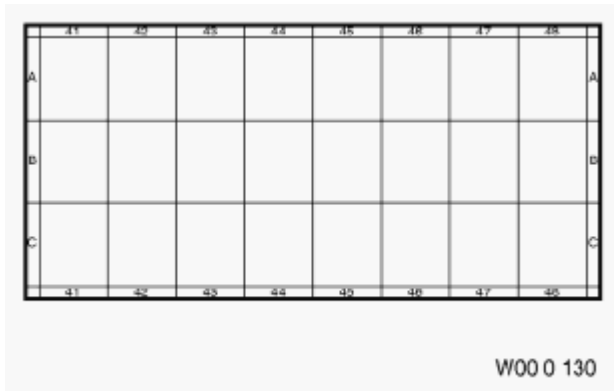


Fig. 16: Special Tool Board VI Complete (00 0 130)
Courtesy of BMW OF NORTH AMERICA, INC.

00 0 140 SUPPLEMENTARY HOOK SET

Note: Only for delivery of the supplementary hook set for converting tool boards (old to new).

Order number: 00 0 140

Supplementary hook set

00 0 150 SPECIAL TOOL CABINET

Note: To accommodate 5 special tool boards. Replaced by 1x 00 0 220 complete plus 1x 00 0 221 and 1x 00 0 224

Order number: 00 0 150

Special tool cabinet

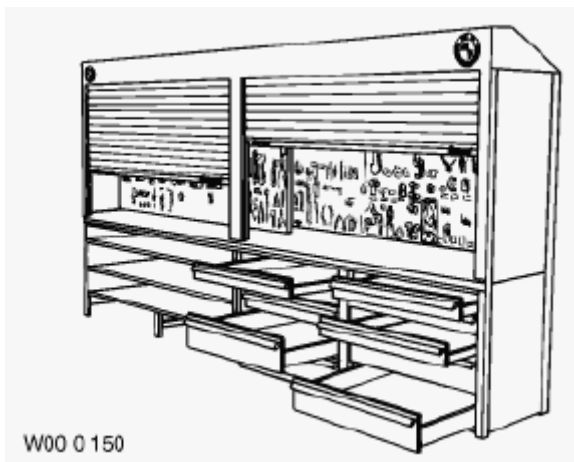


Fig. 17: Special Tool Cabinet (00 0 150)

Courtesy of BMW OF NORTH AMERICA, INC.

00 0 152 SHELF

Order number: 00 0 152

Shelf

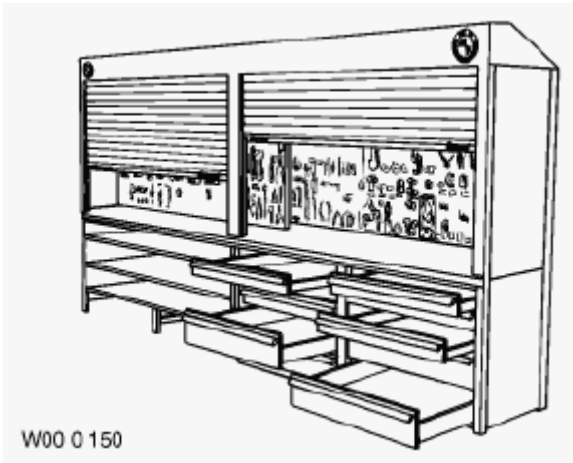


Fig. 18: Special Tool Cabinet (00 0 150)
Courtesy of BMW OF NORTH AMERICA, INC.

00 0 153 WIDE-GROOVE MAT (2 MATS)

Order number: 00 0 153

Wide-groove mat (2 mats)

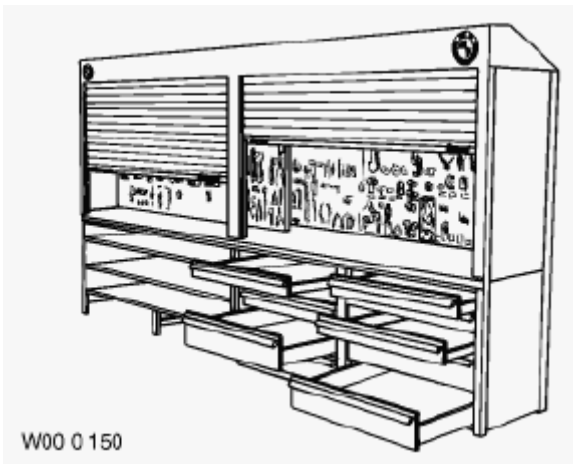


Fig. 19: Special Tool Cabinet (00 0 150)
Courtesy of BMW OF NORTH AMERICA, INC.

00 0 154 DRAWER UNIT WITH 5 DRAWERS, LOCKABLE

Order number: 00 0 154

Drawer unit with 5 drawers, lockable

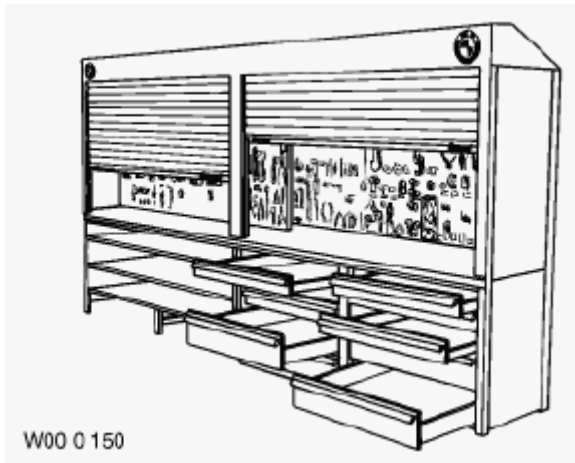


Fig. 20: Special Tool Cabinet (00 0 150)
Courtesy of BMW OF NORTH AMERICA, INC.

00 0 155 REAR PANEL

Order number: 00 0 155

Rear panel

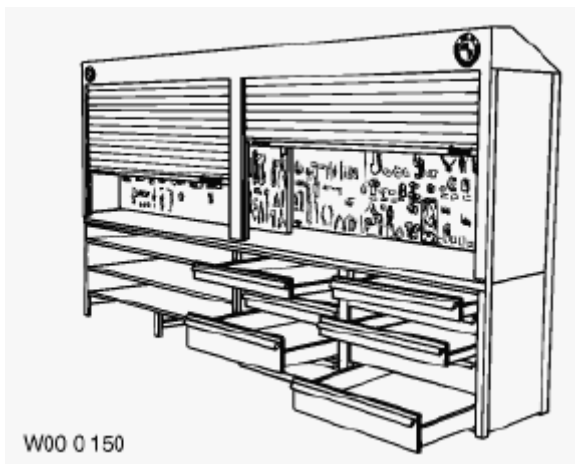


Fig. 21: Special Tool Cabinet (00 0 150)
Courtesy of BMW OF NORTH AMERICA, INC.

00 0 158 LOCKABLE ROLLER SHUTTER (2)

Order number: 00 0 158

Lockable roller shutter (2)

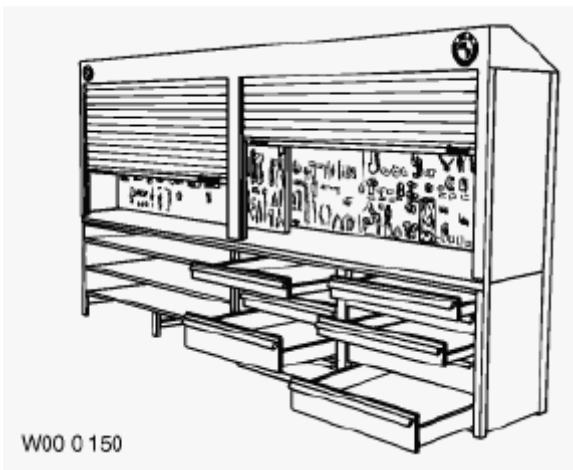


Fig. 22: Special Tool Cabinet (00 0 150)
Courtesy of BMW OF NORTH AMERICA, INC.

00 0 170 PARTS CABINET

Note: For storing removed vehicle parts

Series: All models

Storage location: Single

SI number: 8 01 94(821)

Order number: 00 0 170

Parts cabinet

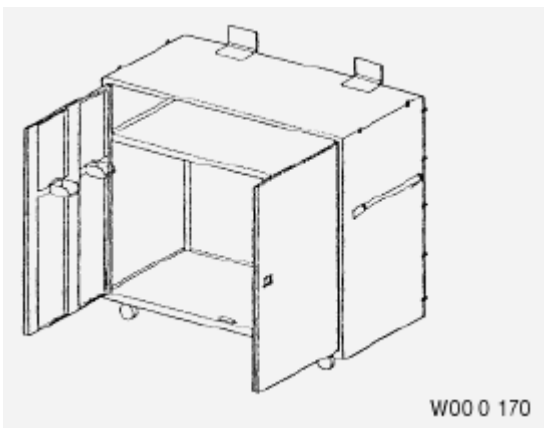


Fig. 23: Parts Cabinet (00 0 170)
Courtesy of BMW OF NORTH AMERICA, INC.

00 0 180 CABLE CABINET II, COMPLETE

2007 BMW X3

GENERAL INFORMATION Maintenance and General Information - Special Tools - X3

Note: For extended accommodation of adapter leads as well as measuring and test equipment

SI number: 0 02 99 (399)

Order number: 00 0 180

Cable cabinet II, complete

Consisting of:

1 = 00 0 182 Film set II

Note: For identifying storage locations in cable cabinet II - Currently applicable status

2 = 00 0 183 Cable holder set - H -

Note: For cable cabinet II only 16 guide rails each with 15 straps for holding adapter cables - Currently applicable status

3 = 00 0 184 CD holder

Note: For holding two program CDs with sleeve - Can be fitted in cable cabinets I and II

4 = 00 0 186 Drawer block

Note: For cable cabinet II only

5 = 00 0 187 Holder set for test adapters

Note: For cable cabinet II only

6 = 00 0 188 Strap set (optional)

Note: 20 straps for cable holders - H - For expanding suspended cables in cable cabinets I and II

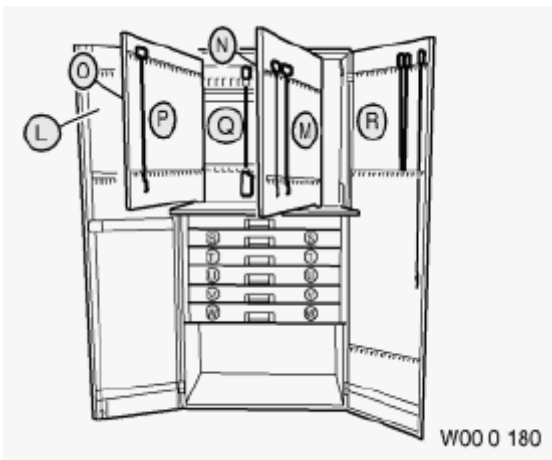


Fig. 24: Cable Cabinet II, Complete (00 0 180)
Courtesy of BMW OF NORTH AMERICA, INC.

00 0 190 CABLE CABINET I, COMPLETE

Note: With set of films and accessories - For storing adapter cables as well as measuring devices and testers

SI number: 0 02 99 (399)

Order number: 00 0 190

Cable cabinet I, complete

Consisting of:

1 = 00 0 191 Cable cabinet

Note: Without contents or accessories Basis for cable cabinets I and II

2 = 00 0 192 Set of films I

Note: For identifying storage locations in cable cabinet I - valid status in each case

3 = 00 0 193 Cable holder set - H -

Note: For cable cabinet I only 24 guide rails each with 15 retaining straps for accommodating adapter leads

4 = 00 0 194 Cable carrier - B -

Note: For accommodating engine test leads For extending cable suspensions in cable cabinets I and II

6 = 00 0 195 Swivel board frame

Note: Carrier of cable suspensions in cable cabinets I and II

7 = 00 0 196 Drawer block

Note: For cable cabinet I only

8 = 00 0 197 Magnet with roller

Note: For improved location and spacing of swivel boards - For retrofitting in cable cabinets I and II only

9 = 00 0 198 Compartment floor

Note: For cable cabinet I only

10 = 00 0 199 Index

Note: For finding BMW special tools for automotive electrics in cable cabinets I and II

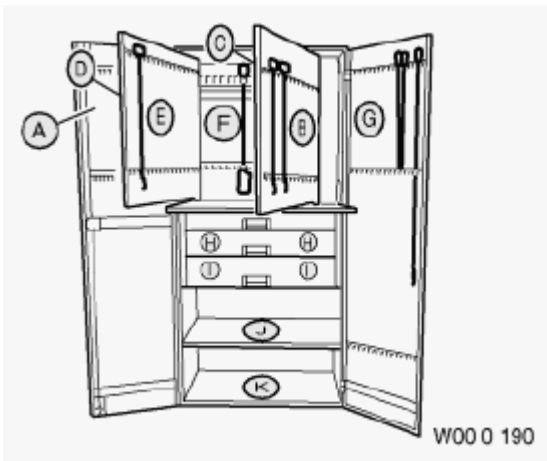


Fig. 25: Cable Cabinet I, Complete (00 0 190)
Courtesy of BMW OF NORTH AMERICA, INC.

00 0 210 CONVERSION KIT

Note: For cable cabinet

Series: All models

Storage location: Cable cabinet

SI number: 0 02 99 (399)

Order number: 00 0 210

Conversion kit

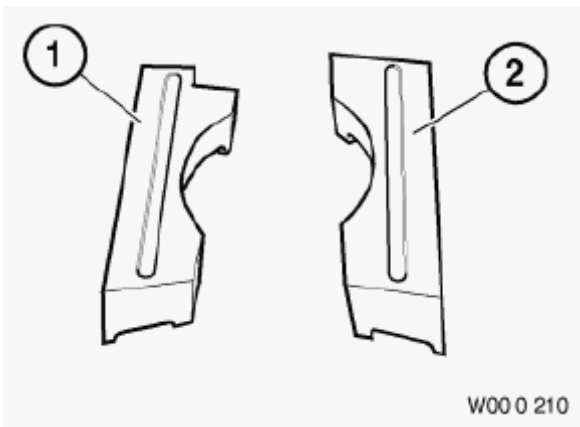


Fig. 26: Conversion Kit (00 0 210)

Courtesy of BMW OF NORTH AMERICA, INC.

00 0 220 SPECIAL TOOL CABINET, LENGTH 2 M

Note: Dimensions: (LxHxD) 2.05 m x 2.10 m x 0.65 m For extended accommodation of special tools.
IMPORTANT! Use Order No. 00 1 000 to erect a complete 6 m long special tool cabinet.

SI number: 0 01 00 (549)

Order number: 00 0 220

Special tool cabinet, length 2 m

Consisting of:

1 = 00 0 221 Frame with roller shutter

Note: Basic frame for erecting a separate 2 m long special tool cabinet. Note: If ordered individually as a mounting frame, the complete scope of delivery must already be present under Order No. 00 0 220. Overall length with a mounting frame: 4 m

In conjunction with: 00 0 225 / Not available without roller shutter for stability reasons!

2 = 00 0 222 Side panel, left

Note: Required only once for erecting the basic frame

3 = 00 0 223 Side panel, right

Note: Required only once for erecting the basic frame

4 = 00 0 224 Large special tool board 2 m x 1 m

Note: This special tool board serves as the rear panel of basic and mounting frames and is the basis for large

stationary and moving special tool boards.

In conjunction with: Hook set and films

5 = 00 0 225 Roller shutter, lockable

Note: Included in scope of delivery 00 0 221. This order number is for reordering purposes only.

6 = 00 0 226 Side frame

Note: Required only once for setting up the basic frame



Fig. 27: Special Tool Cabinet, Length 2 mm (00 0 220)

Courtesy of BMW OF NORTH AMERICA, INC.

00 0 230 LARGE BOARD (2X1 M) WITH SET OF CASTORS

In conjunction with: Special tool boards, complete

Note: For retrofitting to a large special tool board for use in a special tool cabinet with a minimum length of 4 m.

Order number: 00 0 230

Large board (2x1 m) with set of castors

Consisting of:

2 = 00 0 232 Castors, top, for large board

3 = 00 0 233 Castors, bottom, for large board

00 0 240 SMALL MOVING SPECIAL TOOL BOARD WITHOUT FILMS

In conjunction with: Film and hook set

Note: For retrofitting a special tool cabinet from 2 m in length.

SI number: 0 01 02 (810)

Order number: 00 0 240

Small moving special tool board without films

Consisting of:

1 = 00 0 241 Small special tool board 0.65 m x 1 m

2 = 00 0 242 Castors, top

Note: For moving a small special tool board

3 = 00 0 243 Castors, bottom

Note: For moving a small special tool board

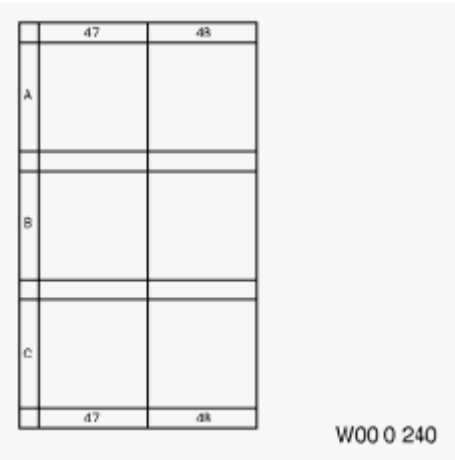


Fig. 28: Small Moving Special Tool Board Without Films (00 0 240)
Courtesy of BMW OF NORTH AMERICA, INC.

00 0 250 SHELF

Note: With mounting material.

SI number: 0 01 00 (549)

Order number: 00 0 250

Shelf

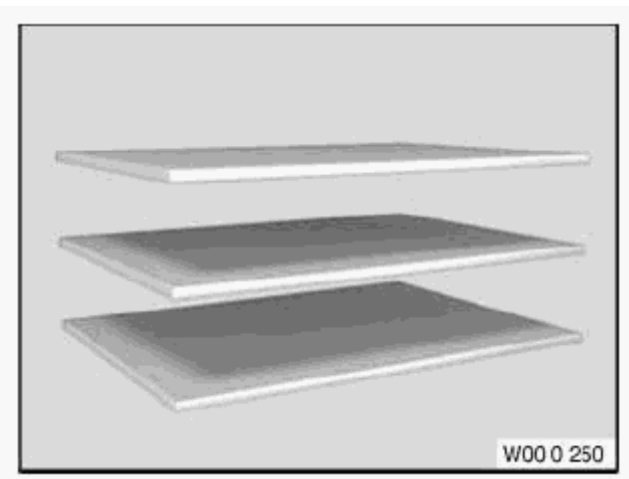


Fig. 29: Shelf (00 0 250)

Courtesy of BMW OF NORTH AMERICA, INC.

00 0 260 DRAWER BLOCK

Note: With 5 lockable drawers

SI number: 0 01 00 (549)

Order number: 00 0 260

Drawer block



Fig. 30: Drawer Block (00 0 260)

Courtesy of BMW OF NORTH AMERICA, INC.

00 0 270 REAR PANEL (2 PCS.)

Note: For sealing the rear panel (height 2 m x width 1 m) during free erection of a special tool cabinet.

SI number: 0 01 00(549)

Order number: 00 0 270

Rear panel (2 pcs.)

00 0 280 FILM SHEET AND HOOK SETS FROM SPECIAL TOOL BOARD VII

In conjunction with: 00 0 224 or appropriate number 00 0 241

Note: For retrofitting onto special tool boards. NOTE: Each film with hook set is always supplied in accordance with the current status of the special tools. Up to three films can be stuck onto a large special tool board.

Order number: 00 0 280

Film sheet and hook sets from special tool board VII

Consisting of:

1 = 00 0 281 Film sheet and hook set

Note: For fields A/B/C - 41 and 42

2 = 00 0 282 Film sheet and hook set

Note: For fields A/B/C - 43 and 44

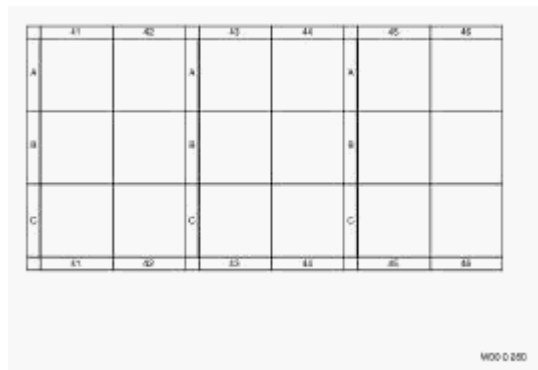


Fig. 31: Film Sheet And Hook Sets (00 0 280)
Courtesy of BMW OF NORTH AMERICA, INC.

00 0 333 SUPPLEMENTARY FILM / HOOK SET

Note: For mechanical tools in special tool cabinet - Model series: E39 - engine: M57

Order number: 00 0 333

Supplementary film / hook set

00 0 334 SUPPLEMENTARY FILM / HOOK SET

2007 BMW X3

GENERAL INFORMATION Maintenance and General Information - Special Tools - X3

Note: For mechanical tools in special tool cabinet - Engine: S62

Order number: 00 0 334

Supplementary film / hook set

00 0 335 SUPPLEMENTARY FILM / HOOK SET

Note: For mechanical tools in special tool cabinet - Engine: S62 (Part 2)

Order number: 00 0 335

Supplementary film / hook set

00 0 336 SUPPLEMENTARY FILM / HOOK SET

Note: For mechanical tools in special tool cabinet - Engine: M67

Order number: 00 0 336

Supplementary film / hook set

00 0 337 SUPPLEMENTARY FILM / HOOK SET

Note: For mechanical tools in special tool cabinet - Transmission: F-transmission

Order number: 00 0 337

Supplementary film / hook set

00 0 338 SUPPLEMENTARY FILM / HOOK SET

Note: For mechanical tools in special tool cabinet - Model series: E53

Order number: 00 0 338

Supplementary film / hook set

00 0 339 SUPPLEMENTARY FILM / HOOK SET

Note: For mechanical tools in special tool cabinet - Special tools 24 4 137, 33 3 030, 33 3 040

Order number: 00 0 339

Supplementary film / hook set

00 0 341 SUPPLEMENTARY FILM / HOOK SET

2007 BMW X3

GENERAL INFORMATION Maintenance and General Information - Special Tools - X3

Note: For mechanical tools in special tool cabinet - Engine: S54

Order number: 00 0 341

Supplementary film / hook set

00 0 342 SUPPLEMENTARY FILM AND HOOK SET

Note: For mechanical tools in special tool cabinet E65 / M57TU, M67

Order number: 00 0 342

Supplementary film and hook set

00 0 343 FILM AND HOOK SET

Note: For mechanical tools in special tool cabinet E65, N73

Order number: 00 0 343

Film and hook set

00 0 344 FILM AND HOOK SET

Note: For mechanical tools in special tool cabinet R50, W17

Order number: 00 0 344

Film and hook set

00 0 345 FILM AND HOOK SET

Order number: 00 0 345

Film and hook set

00 0 346 FILM AND HOOK SET

Order number: 00 0 346

Film and hook set

00 0 347 FILM AND HOOK SET

Order number: 00 0 347

Film and hook set

00 0 348 FILM AND HOOK SET

Order number: 00 0 348

Film and hook set

00 0 354 FILMS/HOOK SET E90

Order number: 00 0 354

Films/hook set E90

00 0 355 FILMS/HOOK SET

Note: 61 6 100, 61 6 110

Order number: 00 0 355

Films/hook set

00 0 356 FILMS/HOOK SET

Note: 23 0 320

Order number: 00 0 356

Films/hook set

00 0 357 FILMS/HOOK SET

Note: For 33 4 285

Order number: 00 0 357

Films/hook set

00 0 358 FILMS/HOOK SET

Order number: 00 0 358

Films/hook set

00 0 359 SUPPLEMENTARY FOILS + HOOKS FOR 24 2 354 & 24 4 166

Order number: 00 0 359

Supplementary foils + hooks for 24 2 354 & 24 4 166

00 0 361 SUPPLEMENTARY FILMS/HOOKS FOR N43, N47

Order number: 00 0 361

Supplementary films/hooks for N43, N47

00 0 415 FILM SET 1 + 2 FOR E87

Order number: 00 0 415

Film set 1 + 2 for E87

00 0 416 FILM SET CABLE CABINET 1 FOR E90

Order number: 00 0 416

Film set cable cabinet 1 for E90

00 0 418 FILM SET CABLE CABINET 2

Order number: 00 0 418

Film set cable cabinet 2

00 0 450 CROSS-MEMBER / SUB-NO.

Note: Reserved for consecutive sub-no. crossmember 00 0 200

SI number: 1 10 02 (907)

Order number: 00 0 450

Cross-member / sub-no.

00 1 000 SPECIAL TOOL CABINET, LENGTH 6 M, COMPLETE CURRENT RANGE OF EQUIPMENT.

Note: Range of equipment comprises: - Base frame - Films - Hooks - 5 large special tool boards - 4 small special tool boards Accessories such as storage shelves (00 0 250), drawer blocks (00 0 260) and rear panels (00 0 270) must be ordered separately.

SI number: 1 10 04 (092)

Order number: 00 1 000

Special tool cabinet, length 6 m, complete current range of equipment.

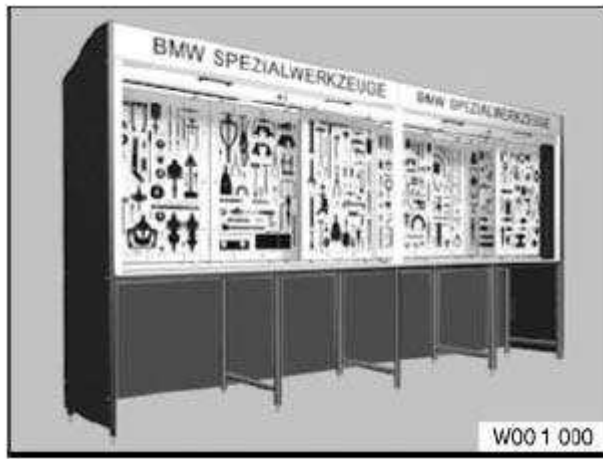


Fig. 32: Special Tool Cabinet (00 1000)
Courtesy of BMW OF NORTH AMERICA, INC.

00 1 010 SPECIAL TOOL CABINET, LENGTH 4 M AND 2 M, COMPLETE CURRENT RANGE OF EQUIPMENT.

Note: Consisting of tool cabinet 4 m and 2 m. All boards covered with film, hook set and folding index with list. Accessories such as storage shelves (00 0 250), drawer blocks (00 0 260) and rear panels (00 0 270) must be ordered separately.

Order number: 00 1 010

Special tool cabinet, length 4 m and 2 m, complete current range of equipment.

00 1 140 E87 FILM AND HOOK SET

Note: E87

Order number: 00 1 140

E87 film and hook set

Consisting of:

1 = 00 1 141 Film sheet

2 = 00 1 142 Hook set

00 1 150 N 52 FILM AND HOOK SET

Note: N52

Order number: 00 1 150

N 52 film and hook set

Consisting of:

1 = 00 1 151 Film sheet

2 = 00 1 152 Hook set

00 1 160 FILM AND HOOK SET FOR S85

Note: (for action tools)

SI number: 1 12 05 (196)

Order number: 00 1 160

Film and hook set for S85

00 1 161 FILM S85

Order number: 00 1 161

Film S85

00 1 162 HOOK SET S85

Order number: 00 1 162

Hook set S85

00 1 170 FILM AND HOOK SET FOR S85

Note: (for store tools)

SI number: 1 12 05 (196)

Order number: 00 1 170

Film and hook set for S85

00 1 171 FILM S85

Order number: 00 1 171

Film S85

00 1 172 HOOK SET S85

Order number: 00 1 172

Hook set S85

00 1 300 TOOL CABINET, USA VERSION, COMPLETE

Note: Consisting of: - Tool cabinet 4 m - All boards covered with film, USA version - including hook set - including lighting

Order number: 00 1 300

Tool cabinet, USA version, complete

Consisting of:

1 = 00 1 301 2 m tool cabinet USA basic version

Note: Consisting of: - Tool cabinet 2 m - Large bright-finish board - including lighting

2 = 00 1 302 2 m tool cabinet USA add-on version

Note: Consisting of: - Tool cabinet 2 m - Large bright-finish board - including lighting

00 1 310 TOOL BOARDS, COMPLETE, USA VERSION

Note: Consisting of: - 3 large tool boards, covered with film - including hook set - including wall mounting

Order number: 00 1 310

Tool boards, complete, USA version

00 1 320 FILM SET, COMPLETE USA VERSION

Order number: 00 1 320

Film set, complete, USA version

Consisting of:

1 = 00 1 321 Film no. 1 USA version

2 = 00 1 322 Film no. 2 USA version

3 = 00 1 323 Film no. 3 USA version

4 = 00 1 324 Film no. 4 USA version

5 = 00 1 325 Film no. 5 USA version

6 = 00 1 326 Film no. 6 USA version

7 = 00 1 327 Film no. 7 USA version

8 = 00 1 328 Film no. 8 USA version

9 = 00 1 329 Film no. 9 USA version

00 1 331 FILM NO. 10 USA VERSION

Order number: 00 1 331

Film no. 10 USA version

00 1 332 FILM NO. 11 USA VERSION

Order number: 00 1 332

Film no. 11 USA version

00 1 333 FILM NO. 12 USA VERSION

Order number: 00 1 333

Film no. 12 USA version

00 1 340 HOOK SET, COMPLETE, FOR 00 1 300, USA VERSION

Order number: 00 1 340

Hook set, complete, for 00 1 300, USA version

Consisting of:

1 = 00 1 341 Hook set for film no. 1 USA-Version

2 = 00 1 342 Hook set for film no. 2 USA version

3 = 00 1 343 Hook set for film no. 3 USA version

4 = 00 1 344 Hook set for film no. 4 USA version

5 = 00 1 345 Hook set for film no. 5 USA version

6 = 00 1 346 Hook set for film no. 6 USA version

7 = 00 1 347 Hook set for film no. 7 USA version

8 = 00 1 348 Hook set for film no. 8 USA version

9 = 00 1 349 Hook set for film no. 9 USA version

00 1 351 HOOK SET FOR FILM NO. 10 USA VERSION

Order number: 00 1 351

Hook set for film no. 10 USA version

00 1 352 HOOK SET FOR FILM NO. 11 USA VERSION

Order number: 00 1 352

Hook set for film no. 11 USA version

00 2 030 UNIVERSAL HYDRO-LIFTER BASIC UNIT

In conjunction with: 00 2 040, 23 0 040, 23 0 130, 24 0 170, 24 5 300, 25 5 350, 27 1 030, 33 4 420, 51 3 280

Note: Chassis and hydraulic jack - For removing and installing rear axle carriers and transmissions Also for convertible top take-up supports E85 and E64.

Series: E12, E21, E23, E24, E28, E30, E30/C, E30tou, E31, E32, E32/3, E34, E34tou, E36, E36/2, E36/3, E36/5, E36/7, E36/C, E36tou, E38, E38/3, E39, E39PL, E39tou, E46, E46/16, E46/2, E46/3, E46/5, E46/C, E52, E53, E60, E61, E63, E64, E65, E66, E67, E70, E83, E85, E86, E87, E90, E91, E92, E93, R50, R52, R53, R56, RR1, RR2

SI number: 1 05 90 (207)

Order number: 00 2 030

Universal hydro-lifter basic unit

Consisting of:

1 = 00 2 031 Adapter for transmission brackets

Note: Model series: E30, E31, E32, E34, E36

In conjunction with: 23 0 000, 24 0 130

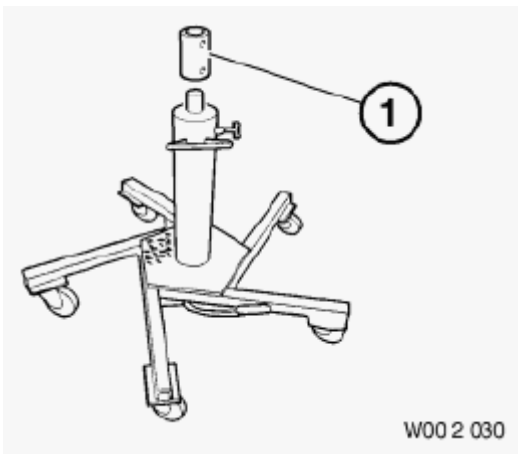


Fig. 33: Universal Hydro-Lifter Basic Unit (00 2 030)
Courtesy of BMW OF NORTH AMERICA, INC.

00 2 040 BASIC TAKE-UP FIXTURE

In conjunction with: 00 2 030, 33 3 270, 33 3 290, 33 3 300, 33 4 220, 33 4 230

Note: For removing and installing rear axle carriers, without pillar guide and lift hoist.

Series: E31, E32, E32/3, E34, E34tou, E36, E36/2, E36/3, E36/5, E36/7, E36/C, E36tou, E38, E38/3, E39, E39PL, E39tou, E46, E46/16, E46/2, E46/3, E46/5, E46/C, E52, E53, E60, E61, E63, E64, E65, E66, E67, E70, E81, E83, E85, E87, E90, E91, E92, E93, R56, RR1, RR2

Storage location: Single

SI number: 1 05 90 (207)

Order number: 00 2 040

Basic take-up fixture

Consisting of:

1 = 00 2 041 Base frame

2 = 00 2 042 Take-up fixtures, side

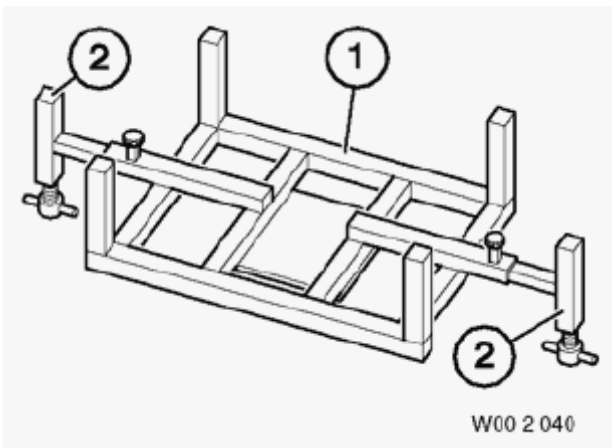


Fig. 34: Basic Take-Up Fixture (00 2 040)

Courtesy of BMW OF NORTH AMERICA, INC.

00 2 050 TORQUE WRENCH, ADJUSTABLE FROM 1 TO 36 NM

Note: For tightening ZF selector units and for adjusting brake bands BW65

Transmission: BW 65

Order number: 00 2 050

Torque wrench, adjustable from 1 to 36 Nm

Consisting of:

1 = 00 2 051 Torque wrench without socket ratchet

2 = 00 2 052 Socket ratchet

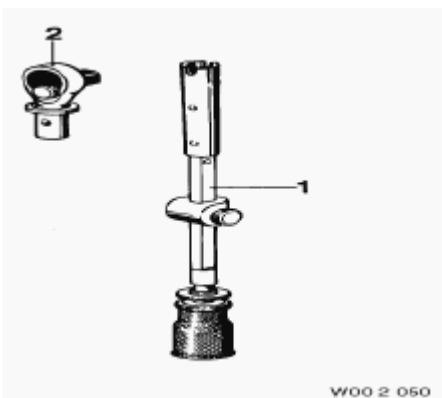


Fig. 35: Torque Wrench (00 2 050)

Courtesy of BMW OF NORTH AMERICA, INC.

00 2 080 HAND PUMP

Note: For Lifetime oil filling

SI number: 1 01 98(294)

Order number: 00 2 080

Hand pump

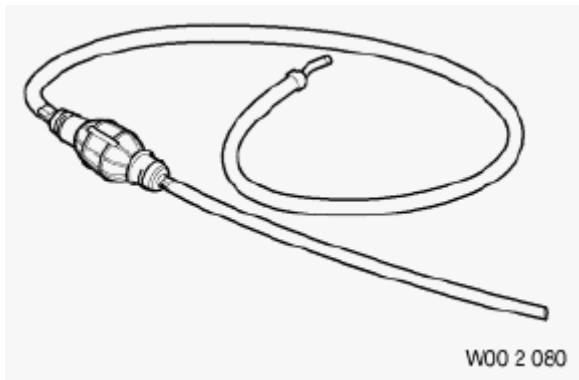


Fig. 36: Hand Pump (00 2080)

Courtesy of BMW OF NORTH AMERICA, INC.

00 2 210 EXHAUST PIPE CUTTER

Note: For V2a pipe

Series: E12, E21, E23, E24, E28, E30, E30/C, E30tou, E31, E32, E32/3, E34, E34tou, E36, E36/2, E36/3, E36/5, E36/7, E36/C, E36tou, E38, E38/3, E39, E39PL, E39tou, E46, E46/16, E46/2, E46/3, E46/5, E46/C, E52, E53, E60, E61, E63, E64, E65, E66, E67, E68, E70, E81, E83, E85, E86, E87, E90, E91, E92, E93, R50, R52, R53, R56, RR1

Storage location: A9, B9

SI number: 1 03 95 (900)

Order number: 00 2 210

Exhaust pipe cutter

Consisting of:

2 = 00 2 212 Chain

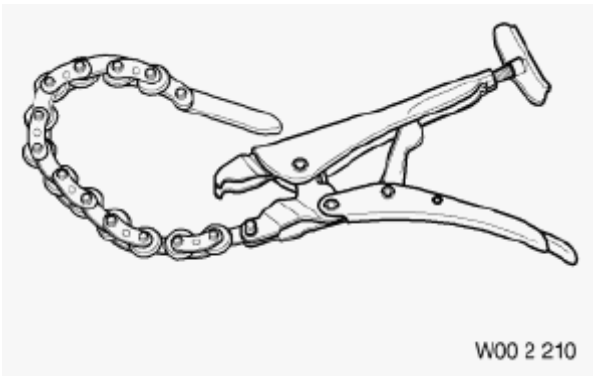


Fig. 37: Exhaust Pipe Cutter (00 2 210)

Courtesy of BMW OF NORTH AMERICA, INC.

00 2 250 SPECIAL PLIERS FOR CABLE RECONDITIONING

Note: With the market introduction of engines (N46, N52 and S85), cable 12 7 420/421 can be used for diagnosis after conditioning

SI number: 02 03 04 (106)

Order number: 00 2 250

Special pliers for cable reconditioning

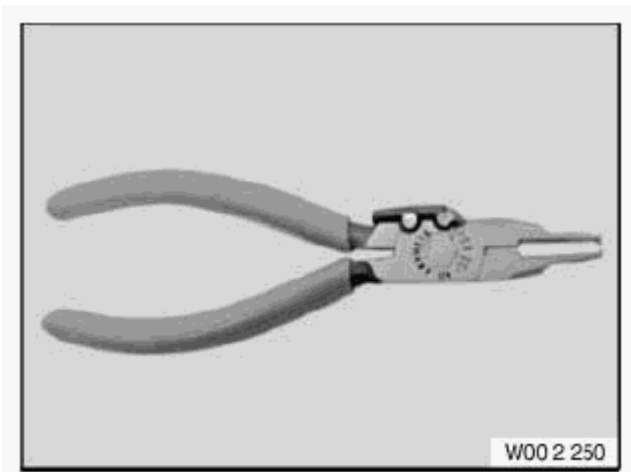


Fig. 38: Special Pliers For Cable Reconditioning (00 2 250)

Courtesy of BMW OF NORTH AMERICA, INC.

00 2 261 ADAPTER (2 X)

SI number: 01 22 06 (307)

Order number: 00 2 261

Adapter (2 x)

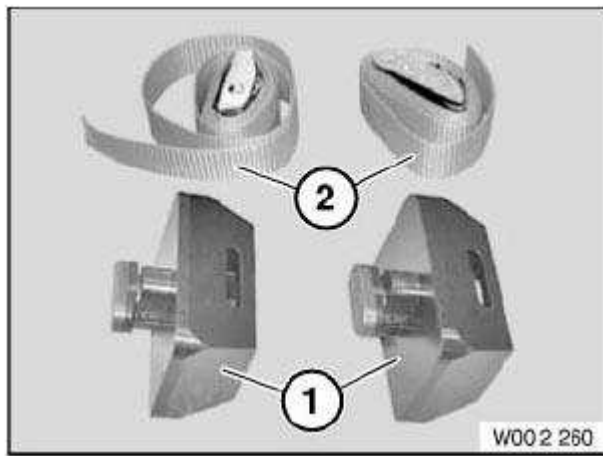


Fig. 39: Adapter (2 X) (00 2 261)

Courtesy of BMW OF NORTH AMERICA, INC.

00 2 262 TENSIONING STRAP (2 X)

SI number: 01 22 06 (307)

Order number: 00 2 262

Tensioning strap (2 x)

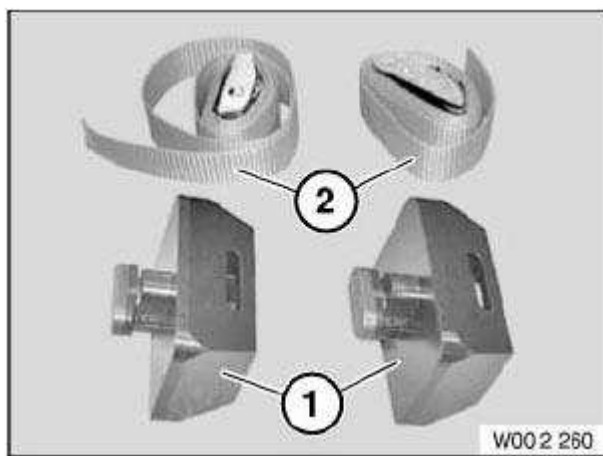


Fig. 40: Adapter (2 X) (00 2 261)

Courtesy of BMW OF NORTH AMERICA, INC.

00 2 520 TORX SOCKETS E10, E12, E14

Note: Replaced by Torx tool kit.

Order number: 00 2 520

Torx sockets E10, E12, E14

Consisting of:

1 = 00 2 521 Torx socket E10

2 = 00 2 522 Torx socket E12

3 = 00 2 523 Torx socket E14

00 2 550 DEPTH GAUGE

Note: E.g. for determining axial play of transmission shaft and basic adjustment dimension for installing bevel pinion in rear differentials

Transmission: 240/5, 242/4, 245/5, 245/5Sport, 260/5, 262/4, 265/5, 265/5Sport, 280/5Sport, A4S 200R, A5S 360R, A5S 390R, GS5-39DZ, diff. 188kom, diff. 220kom, diff. 225kom, diff. type G, diff. type K, diff. type M, S5D 200G, S5D 250G, S5D 260Z, S5D 280Z, S5D 310Z, S5D 320Z, S5D 390Z, S6S 420G, S6S 560G

Storage location: A12, B12

Order number: 00 2 550

Depth gauge

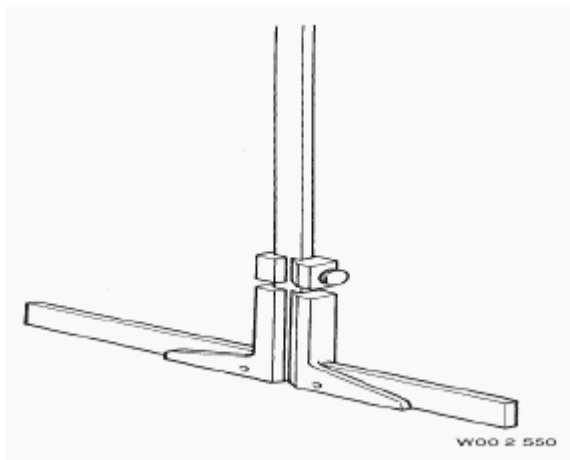


Fig. 41: Depth Gauge (00 2 550)

Courtesy of BMW OF NORTH AMERICA, INC.

00 4 420 CHARGER

Note: Charger for storage batteries in 00 4 400 and 00 4 410. > Input voltage 230 V / 50 Hz > Output voltage 1.65 V > Charge current miniature 4x400 mA > Charge current micro 4x300 mA

SI number: 1 01 05 (172)

Order number: 00 4 420

Charger



Fig. 42: Charger (00 4 420)

Courtesy of BMW OF NORTH AMERICA, INC.

00 5 010 UNIVERSAL PULLER

Minimum set: Mechanical tools

Note: For withdrawing radial seals 00 5 011 for E90

Series: E12, E21, E23, E24, E28, E30, E30/C, E30tou, E31, E32, E32/3, E34, E34tou, E36, E36/2, E36/3, E36/5, E36/7, E36/C, E36tou, E38, E38/3, E39, E39PL, E39tou, E46, E46/16, E46/2, E46/3, E46/5, E46/C, E52, E53, E60, E61, E63, E64, E65, E66, E67, E70, E81, E83, E85, E86, E87, E90, E91, E92, E93, R50, R52, R53, RR1, RR2

Storage location: B26

Order number: 00 5 010

Universal puller

Consisting of:

1 = 00 5 011 Extractor claw (3 pieces required)

2 = 00 5 012 Guide spindle

3 = 00 5 013 Pressure spindle

4 = 00 5 014 Take-up star

Note: For taking up extractor claw

5 = 00 5 015 Thrust member

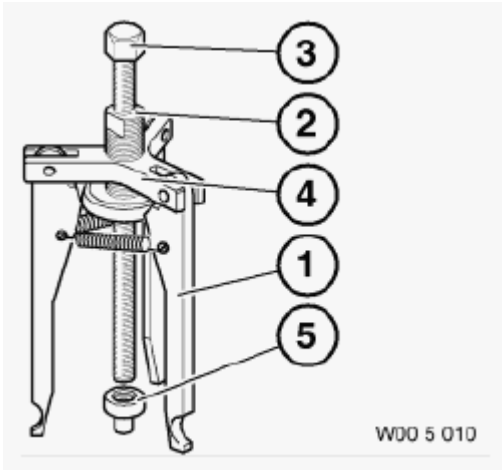


Fig. 43: Universal Puller (00 5 010)

Courtesy of BMW OF NORTH AMERICA, INC.

00 5 030 SPECIAL PLIERS FOR SEAT BELT LIMITER

Note: Replaced by 00 5 040

Order number: 00 5 030

Special pliers for seat belt limiter

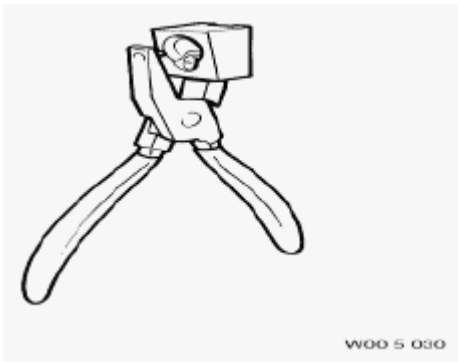


Fig. 44: Special Pliers For Seat Belt Limiter (005030)

Courtesy of BMW OF NORTH AMERICA, INC.

00 5 040 RIVETING TOOL

Note: For riveting seat belt limiter

Storage location: C10

SI number: 1 05 95(932)

Order number: 00 5 040

Riveting tool

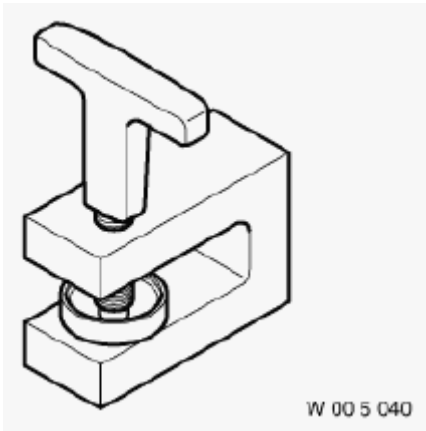


Fig. 45: Riveting Tool (00 5 040)

Courtesy of BMW OF NORTH AMERICA, INC.

00 5 101 FILM 1, BOARD I

SI number: 1 19 06 298

Order number: 00 5 101

Film 1, board I

00 5 102 FILM 2, BOARD I

SI number: 1 19 06 298

Order number: 00 5 102

Film 2, board I

00 5 103 FILM 3, BOARD I

SI number: 1 19 06 298

Order number: 00 5 103

Film 3, board I

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00 5 104 FILM 4, BOARD II

SI number: 1 19 06 298

Order number: 00 5 104

Film 4, board II

00 5 105 FILM 5, BOARD II

SI number: 1 19 06 298

Order number: 00 5 105

Film 5, board II

00 5 106 FILM 6, BOARD II

SI number: 1 19 06 298

Order number: 00 5 106

Film 6, board II

00 5 107 FILM 7, BOARD II

SI number: 1 19 06 298

Order number: 00 5 107

Film 7, board II

00 5 108 FILM 8, BOARD II

SI number: 1 19 06 298

Order number: 00 5 108

Film 8, board II

00 5 109 FILM 9, BOARD 3

SI number: 1 19 06 298

Order number: 00 5 109

Film 9, board 3

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00 5 111 FILM 10 A/B/C 19/20)

Note: Engine: N54

Order number: 00 5 111

Film 10 (A/B/C 19/20)

00 5 112 FILM 11 (A/B/C 21/22)

Note: Model series: E70

Order number: 00 5 112

Film 11 (A/B/C 21/22)

00 5 113 FILM 12 (A/B/C 23/24)

Note: GM6 and RHT

Order number: 00 5 113

Film 12 (A/B/C 23/24)

00 5 211 HOOK SET FOR FILM 10

Note: Engine: N54

Order number: 00 5 211

Hook set for film 10

00 5 212 HOOK SET

Note: Hook set for film 11

Order number: 00 5 212

Hook set

00 5 213 HOOK SET

Note: Hook set for film 12

Order number: 00 5 213

Hook set

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00 5 301 FILM

Note: R56 "N12" N14

Order number: 00 5 301

Film

00 5 302 FILM

Note: R56/W16

Order number: 00 5 302

Film

00 5 351 HOOK SET

Note: R56 "N12" N14

Order number: 00 5 351

Hook set

00 5 352 HOOK SET

Note: R56/W16

Order number: 00 5 352

Hook set

00 5 499 SUPPLEMENTARY HOOK SET

Note: for film 1-9

SI number: 1 19 06 298

Order number: 00 5 499

Supplementary hook set

00 5 500 HANDLE FOR DRIFTS

Minimum set: Mechanical tools

In conjunction with: 11 2 030

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Series: E12, E21, E23, E24, E28, E30, E30/C, E30tou, E31, E32, E32/3, E34, E34tou, E36, E36/2, E36/3, E36/5, E36/7, E36/C, E36tou, E38, E38/3, E39, E39PL, E39tou, E46, E46/16, E46/2, E46/3, E46/5, E46/C, E52, E53, E60, E61, E63, E64, E65, E66, E67, E70, E81, E83, E85, E86, E87, E90, E91, E92, E93, R50, R52, R53, R56, RR1, RR2

Storage location: B31

Order number: 00 5 500

Handle for drifts



00 5 500

Fig. 46: Handle For Drifts (005 500)

Courtesy of BMW OF NORTH AMERICA, INC.

00 7 500 UNIVERSAL PULLER KUKKO 17/K

Note: For removing bearing inner race from drive flange at rear wheel bearing

Series: E12, E21, E23, E24, E28, E30, E30/C, E30tou, E31, E32, E32/3, E34, E34tou, E36, E36/2, E36/3, E36/5, E36/7, E36/C, E36tou, E38, E38/3, E39, E39PL, E39tou, E46, E46/16, E46/2, E46/3, E46/5, E46/C, E52, E53, E60, E61, E63, E64, E65, E66, E67, E70, E81, E83, E85, E86, E87, E90, E91, E92, E93, R50, R52, R53, R56, RR1

Order number: 00 7 500

Universal puller Kukko 17/K

Consisting of:

1 = 00 7 501 Pressure spindle with bridge

2 = 00 7 502 Adjusting spindle (2 x) with knurled nuts (4 x)

3 = 00 7 503 Pressure spindle, side

4 = 00 7 504 Adjusting jaws (2 x)

5 = 00 7 505 Adjusting screws (2 x) with nuts

Note: For adjusting jaw (2 x)

6 = 00 7 506 Extension (2 x)

7 = 00 7 507 Bridge

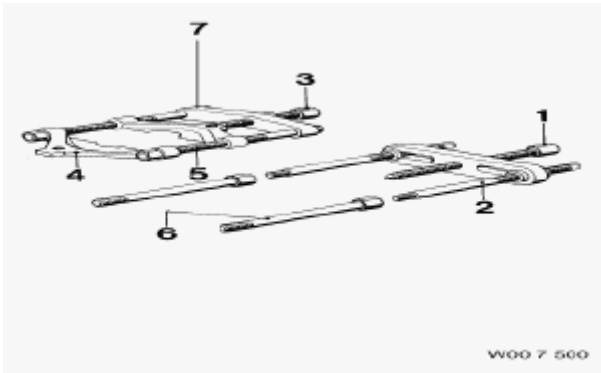


Fig. 47: Universal Puller Kukko 17/K (00 7 500)
Courtesy of BMW OF NORTH AMERICA, INC.

00 8 000 HYDRAULIC PULLER TOOL

In conjunction with: With all previous removal/installation tools for rubber mounts

Note: For removing and installing rubber mount in rear axle carrier

Series: E12, E21, E23, E24, E28, E30, E30/C, E30tou, E31, E32, E32/3, E34, E34tou, E36, E36/2, E36/3, E36/5, E36/7, E36/C, E36tou, E38, E38/3, E39, E39PL, E39tou, E46, E46/16, E46/2, E46/3, E46/5, E46/C, E52, E53, E60, E61, E63, E64, E65, E66, E67, E83, E85, E87, R50, R52, R53, RR1

Storage location: Single

SI number: 1 02 99(417)

Order number: 00 8 000

Hydraulic puller tool

Consisting of:

1 = 00 8 001 Hydraulic pump

2 = 00 8 002 Hydraulic hose

3 = 00 8 003 Hydraulic cylinder

00 8 004 Threaded spindle

Note: M14 x 520

00 8 005 Threaded spindle

Note: M12 x 496

00 8 006 Threaded spindle (optional)

Note: M14 x 465

00 8 007 Nut M18

00 8 008 Securing line

00 8 009 Spindle with nut

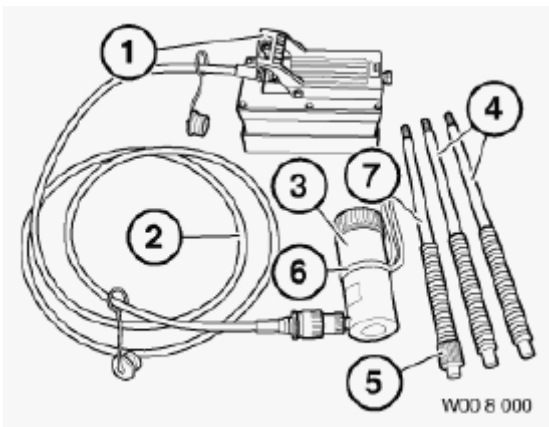


Fig. 48: Hydraulic Puller Tool (00 8 000)

Courtesy of BMW OF NORTH AMERICA, INC.

00 8 600 HOOK SET

Note: For reorganization and mounting of existing special tools on tool boards - NOTE: The following individual tools cannot be ordered in the set!

Series: All models

Order number: 00 8 600

Hook set

Consisting of:

1 = 00 8 601 Hook No. 1

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10= 00 8 612 Hook No. 12

11= 00 8 613 Hook No. 13

12= 00 8 614 Hook No. 14

13= 00 8 615 Hook No. 15

14= 00 8 616 Hook No. 16

15= 00 8 617 Hook No. 17

16= 00 8 620 Hook No. 20

17= 00 8 621 Hook No. 21

18= 00 8 622 Hook No. 22

19= 00 8 625 Hook No. 25

2 = 00 8 602 Hook No. 2

20= 00 8 626 Hook No. 26

21= 00 8 628 Hook No. 28

22= 00 8 629 Hook No. 29

23= 00 8 630 Hook No. 30

3 = 00 8 603 Hook No. 3

4 = 00 8 604 Hook No. 4

5 = 00 8 606 Hook No. 6

6 = 00 8 608 Hook No. 8

7 = 00 8 609 Hook No. 9

8 = 00 8 610 Hook No. 10

9 = 00 8 611 Hook No. 11

00 8 660 MAGNET

Storage location: Tool cabinet

Order number: 00 8 660

Magnet

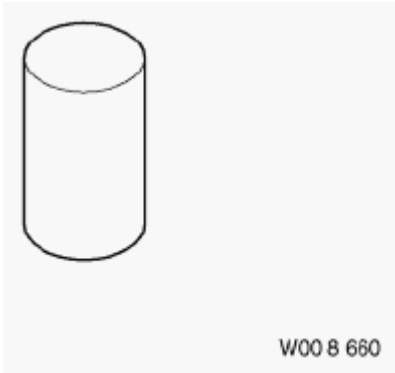


Fig. 49: Magnet (00 8660)

Courtesy of BMW OF NORTH AMERICA, INC.

00 8 690 WASHERS AND SCREWS

Order number: 00 8 690

Washers and screws

Consisting of:

1 = 00 8 691 Washers, 100 x

2 = 00 8 692 Screws, 100 x

3 = 00 8 693 Screws, 100 x

Note: For USA

4 = 00 8 694 Box 40 mm

5 = 00 8 695 Box 100 mm

6 = 00 8 696 Box 150 mm

00 9 010 TORX E18 SOCKET

Minimum set: Mechanical tools

Note: For releasing and tightening down transmission bolt connection on engine (aluminium bolts).

Series: E60, E61, E63, E64, E65, E83, E85, E87, E90, E91, E92

SI number: 1 17 04 (130)

Order number: 00 9 010

Torx E18 socket



Fig. 50: E18 Socket (00 9 010 Torx)
Courtesy of BMW OF NORTH AMERICA, INC.

00 9 110 CIRCLIP PLIERS

Note: External circlip-With long legs, 90° angle

Series: All models

Order number: 00 9 110

Circlip pliers

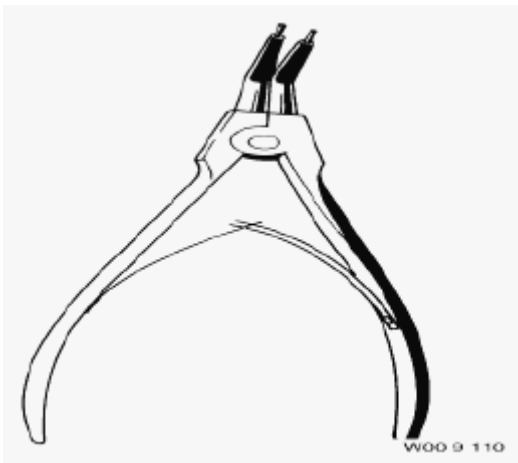


Fig. 51: Circlip Pliers (00 9 110)
Courtesy of BMW OF NORTH AMERICA, INC.

00 9 120 TORQUE ANGLE MEASURING DIAL**Minimum set: Mechanical tools**

Note: For torsion angle tightening of cylinder head bolts (all engines) And reinforcement plate front axle carrier E46

Series: E12, E21, E23, E24, E28, E30, E30/C, E30tou, E31, E32, E32/3, E34, E34tou, E36, E36/2, E36/3, E36/5, E36/7, E36/C, E36tou, E38, E38/3, E39, E39PL, E39tou, E46, E46/16, E46/2, E46/3, E46/5, E46/C, E52, E53, E60, E61, E63, E64, E65, E66, E67, E68, E70, E81, E82, E83, E85, E86, E87, E90, E91, E92, E93, R50, R52, R53, R56, RR1, RR2

Storage location: A12

Order number: 00 9 120

Torque angle measuring dial

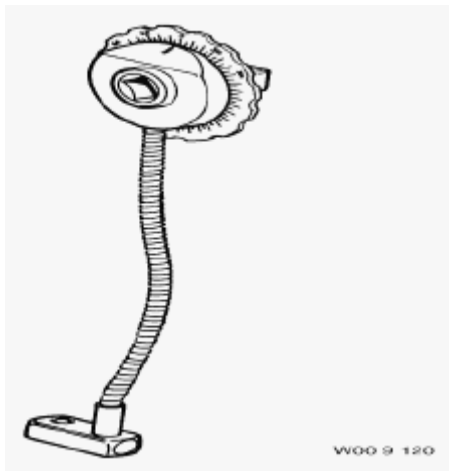


Fig. 52: Torque Angle Measuring Dial (00 9120)
Courtesy of BMW OF NORTH AMERICA, INC.

00 9 130 MAGNET WITH 1/2" CONNECTION**Minimum set: Mechanical tools**

In conjunction with: 00 9 120

Note: For securing angle-of-rotation disk 00 9 120 to body.

Series: E46, E46/16, E46/2, E46/3, E46/5, E46/C, E52, E53, E60, E61, E63, E64, E65, E66, E67, E70, E81, E83, E85, E86, E87, E90, E91, E92

SI number: 1 17 04 (130)

Order number: 00 9 130

Magnet with 1/2" connection



Fig. 53: Magnet With 1/2" Connection (00 9 130)
Courtesy of BMW OF NORTH AMERICA, INC.

00 9 220 BENDING LEVER (2 X)

Minimum set: Mechanical tools

In conjunction with: 00 9 230

Note: For adjusting windshield wiper arms

Series: E12, E21, E23, E24, E28, E30, E31, E32, E34, E36, E36/7, E38, E52, E53, E81, E82, E83, E85, E86, E87, R50, R52, R53

Storage location: A14

SI number: 1 10 92 (579)

Order number: 00 9 220

Bending lever (2 x)

Consisting of:

1 = 00 9 221 Bending lever (wide)

2 = 00 9 222 Counterholder (narrow)

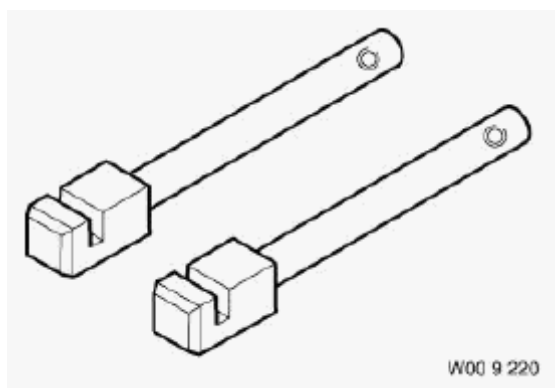


Fig. 54: Bending Lever (2 X) (00 9 220)

Courtesy of BMW OF NORTH AMERICA, INC.

00 9 290 RIVETING TOOL

Note: Is replaced by 00 2 240!

Series: All models

Order number: 00 9 290

Riveting tool

00 9 310 ASSEMBLY WEDGES (SET IN PLASTIC CASE)

Minimum set: Mechanical tools

Note: For straightening and assembly jobs on vehicle bodies, e.g. fitting trim panels, removing window weatherstrips, repairing small-scale dents, removing residual adhesive materials, measuring gap widths, levering out trim panel parts

Series: E12, E21, E23, E24, E28, E30, E30/C, E30tou, E31, E32, E32/3, E34, E34tou, E36, E36/2, E36/3, E36/5, E36/7, E36/C, E36tou, E38, E38/3, E39, E39PL, E39tou, E46, E46/16, E46/2, E46/3, E46/5, E46/C, E52, E53, E60, E61, E63, E64, E65, E66, E67, E68, E70, E81, E82, E83, E85, E86, E87, E90, E91, E92, E93, R50, R52, R53, R55, R56, RR1, RR2

SI number: 1 25 05 230

Order number: 00 9 310

Assembly wedges (set in plastic case)

Consisting of:

1 = 00 9 311 Trim remover

2 = 00 9 312 Striking wedge, square

3 = 00 9 313 Striking wedge, large

4 = 00 9 314 Adjusting wedges (2 x)

5 = 00 9 315 Gap wedge

6 = 00 9 316 Sealing lip wedge

7 = 00 9 317 Trim panel wedge

8 = 00 9 318 Universal wedge

9 = 00 9 319 Striking wedge, small

10 = 00 9 321 Fishbone

11 = 00 9 322 Plastic wedge

12 = 00 9 323 Cleaning wedge (scraper)

13 = 00 9 324 Trim remover (metal plate)

Note: For removing stem trims from E60

14 = 00 9 329 Case with inlay for assembly wedges

In conjunction with: 009310

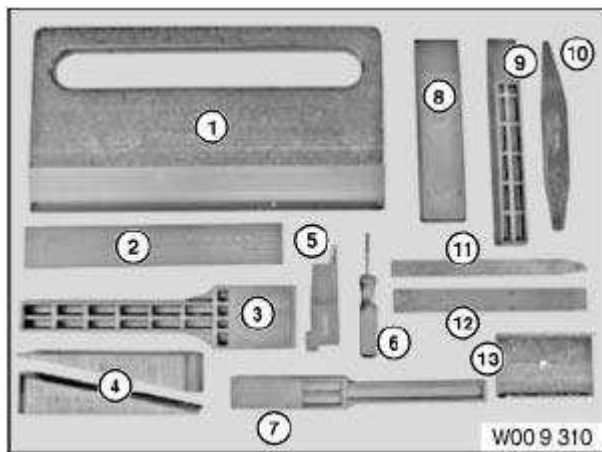


Fig. 55: Assembly Wedges (Set In Plastic Case) (00 9 310)
Courtesy of BMW OF NORTH AMERICA, INC.

00 9 330 WINDSCREEN WIPER SETTING TOOL**Minimum set: Mechanical tools**

Note: For adjusting windscreen wiper arms

Series: E46, E52, E53, E60, E61, E63, E64, E65, E66, E81, E83, E85, E86, E87, RR1

Storage location: A40

SI number: 1 09 99 (432)

Order number: 00 9 330

Windscreen wiper setting tool

Consisting of:

1 = 00 9 331 Feeler gauge

2 = 00 9 332 Counter-holder

3 = 00 9 333 Bending lever

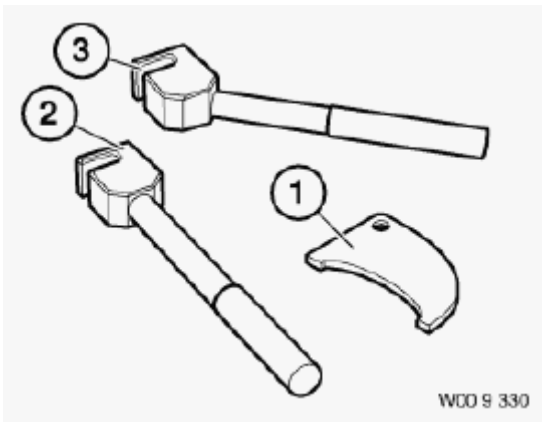


Fig. 56: Windscreen Wiper Setting Tool (00 9 330)
Courtesy of BMW OF NORTH AMERICA, INC.

00 9 340 DISASSEMBLY AID (2)**Minimum set: Mechanical tools**

Note: For levering out switch block on driver's door.

Series: E12, E21, E23, E24, E28, E30, E30/C, E30tou, E31, E32, E32/3, E34, E34tou, E36, E36/2, E36/3, E36/5, E36/7, E36/C, E36tou, E38, E38/3, E39, E39PL, E39tou, E46, E46/16, E46/2, E46/3, E46/5, E46/C,

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E52, E53, E60, E61, E63, E64, E65, E66, E67, E68, E70, E81, E82, E83, E85, E86, E87, E90, E91, E92, E93, R50, R52, R53, R55, R56, RR1, RR2

SI number: 1 15 99 (483)

Order number: 00 9 340

Disassembly aid (2)

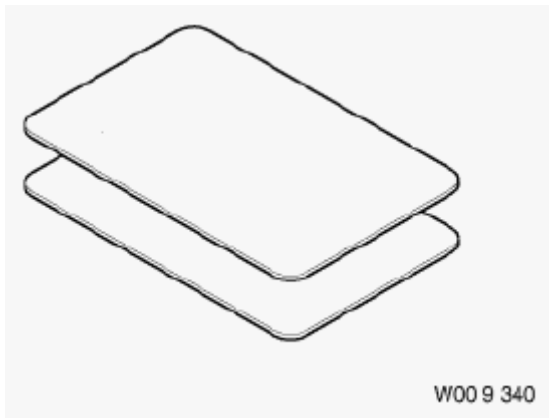


Fig. 57: Disassembly Aid (2) (00 9340)
Courtesy of BMW OF NORTH AMERICA, INC.

00 9 450 TORQUE WRENCH

Note: Infinitely adjustable from 0.05 Nm to 0.6 Nm (5 cNm to 60 cNm). 1/4" external square bit connection.

Series: E52, E53, E60, E61, E63, E64, E65, E66, E67, E68, E70, E81, E83, E85, E86, E87, E90, E91, E92, E93, R50, R52, R53, R56, RR1, RR2

SI number: 1 03 07 337

Order number: 00 9 450

Torque wrench

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Fig. 58: Torque Wrench (00 9450)

Courtesy of BMW OF NORTH AMERICA, INC.

GENERAL INFORMATION

Maintenance and General Information - Tightening Torques - X3

00 MAINTENANCE AND GENERAL INFORMATION

00 00 EXCERPT FROM COMPANY STANDARD BMW GS 90003-2

00 00 EXCERPT FROM COMPANY STANDARD BMW GS 90003-2 TIGHTENING TORQUES

	Type	Thread	Tightening specification	Measure
If there are no cross-references to tightening torques in the repair instructions, the excerpts from the company standard BMW GS 90003-2 must be observed.				
There are different screws / nuts with surface color / (surface coating) - yellow (ZN) and silver (ZNS) The maximum tightening torques are: Surface color yellow (ZN):				
Surface color silver (ZNS): The values specified in this table apply to all screw connections conforming to the aforementioned conditions. Not applicable when using a different surface or lubricant condition on the thread, or if the height of the nut differs.				
Not applicable to necked-down bolts, self-tapping screw connections or to connections between parts made of different				

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materials.
Attention!
To be able to carry out competent repairs, it is essential to comply with the specified tightening torques. This presupposes that the required torque wrenches are subjected to regular testing. Permitted tolerance of torque wrenches +/- 4 % of scale value. Approved torque wrenches and torque testers are contained in the catalogue Workshop Equipment Planning documentation.

00 00 M10 AND M10 X 1 - MAXIMUM TIGHTENING TORQUES ACC. TO BMW GS 90003-2

00 00 M10 AND M10 X 1 - MAXIMUM TIGHTENING TORQUES ACC. TO BMW GS 90003-2

	Type	Thread	Tightening specification	Measure
Scope of applicability of tightening torques, refer to <u>EXCERPT FROM COMPANY STANDARD BMW GS 90003-2</u>	Surface colour / (surface coating)			
M10 thread	yellow (ZN)	M10 8.8		47 N.m
	silver (ZNS)	M10 8.8		38 N.m
	yellow (ZN)	M10 10.9		66 N.m
	silver (ZNS)	M10 10.9		56 N.m
	yellow (ZN)	M10 12.9		79 N.m
	silver (ZNS)	M10 12.9		62 N.m
M10x1 thread	Yellow (ZN)	M10 x 1 8.8		54 N.m
	silver (ZNS)	M10 x 1 8.8		41 N.m
	yellow (ZN)	M10 x 1 10.9		75 N.m
	silver (ZNS)	M10 x 1 10.9		60 N.m
	yellow (ZN)	M10 x 1 12.9		91 N.m
	silver (ZNS)	M10 x 1 12.9		67 N.m

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00 00 M12 AND M12X1.5 - MAXIMUM TIGHTENING TORQUES ACC. TO BMW GS 90003-2**00 00 M12 AND M12X1.5 - MAXIMUM TIGHTENING TORQUES ACC. TO BMW GS 90003-2**

	Type	Thread	Tightening specification	Measure
Scope of applicability of tightening torques, refer to <u>EXCERPT FROM COMPANY STANDARD BMW GS 90003-2</u>	Surface colour / (surface coating)			
M12 thread	yellow (ZN)	M12 8.8		82 N.m
	silver (ZNS)	M12 8.8		66 N.m
	yellow (ZN)	M12 10.9		115 N.m
	silver (ZNS)	M12 10.9		98 N.m
	yellow (ZN)	M12 12.9		140 N.m
	silver (ZNS)	M12 12.9		108 N.m
M12x1.5 thread	yellow (ZN)	M12 x 1.5 8.8		87 N.m
	silver (ZNS)	M12 x 1.5 8.8		68 N.m
	yellow (ZN)	M12 x 1.5 10.9		123 N.m
	silver (ZNS)	M12 x 1.5 10.9		100 N.m
	yellow (ZN)	M12 x 1.5 12.9		147 N.m
	silver (ZNS)	M12 x 1.5 12.9		110 N.m

00 00 M14 AND M14X1.5 - MAXIMUM TIGHTENING TORQUES ACC. TO BMW GS 90003-2**00 00 M14 AND M14X1.5 - MAXIMUM TIGHTENING TORQUES ACC. TO BMW GS 90003-2**

	Type	Thread	Tightening specification	Measure
Scope of applicability of tightening torques, refer to <u>EXCERPT FROM COMPANY STANDARD BMW GS 90003-2</u>	Surface colour / (surface coating)			
M14 thread	yellow (ZN)	M14 8.8		130 N.m
	silver (ZNS)	M14 8.8		104 N.m
	yellow (ZN)	M14 10.9		180 N.m
	silver (ZNS)	M14 10.9		155 N.m

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	yellow (ZN)	M14 12.9		220 N.m
	silver (ZNS)	M14 12.9		170 N.m
M14x1.5 thread	yellow (ZN)	M14 x 1.5 8.8		143 N.m
	silver (ZNS)	M14 x 1.5 8.8		110 N.m
	yellow (ZN)	M14 x 1.5 10.9		200 N.m
	silver (ZNS)	M14 x 1.5 10.9		165 N.m
	yellow (ZN)	M14 x 1.5 12.9		240 N.m
	silver (ZNS)	M14 x 1.5 12.9		180 N.m

00 00 M16 AND M16X1.5 - MAXIMUM TIGHTENING TORQUES ACC. TO BMW GS 90003-2**00 00 M16 AND M16X1.5 - MAXIMUM TIGHTENING TORQUES ACC. TO BMW GS 90003-2**

	Type	Thread	Tightening specification	Measure
Scope of applicability of tightening torques, refer to <u>EXCERPT FROM COMPANY STANDARD BMW GS 90003-2</u>	Surface colour / (surface coating)			
M16 thread	yellow (ZN)	M16 8.8		200 N.m
	silver (ZNS)	M16 8.8		160 N.m
	yellow (ZN)	M16 10.9		280 N.m
	silver (ZNS)	M16 10.9		235 N.m
	yellow (ZN)	M16 12.9		340 N.m
	silver (ZNS)	M16 12.9		260 N.m
M16x1.5 thread	yellow (ZN)	M16 x 1.5 8.8		216 N.m
	silver (ZNS)	M16 x 1.5 8.8		170 N.m
	yellow (ZN)	M16 x 1.5 10.9		303 N.m
	silver (ZNS)	M16 x 1.5 10.9		250 N.m
	yellow (ZN)	M16 x 1.5 12.9		364 N.m
	silver (ZNS)	M16 x 1.5 12.9		275 N.m

00 00 M18 AND M18X1.5 - MAXIMUM TIGHTENING TORQUES ACC. TO BMW GS 90003-2**00 00 M18 AND M18X1.5 - MAXIMUM TIGHTENING TORQUES ACC. TO BMW GS 90003-2**

	Type	Thread	Tightening specification	Measure
Scope of applicability of tightening torques, refer to <u>EXCERPT FROM COMPANY STANDARD BMW</u>	Surface colour / (surface coating)			

2007 BMW X3**GENERAL INFORMATION Maintenance and General Information - Tightening Torques - X3**

GS 90003-2				
M18 thread	yellow (ZN)	M18 8.8		280 N.m
	silver (ZNS)	M18 8.8		225 N.m
	yellow (ZN)	M18 10.9		390 N.m
	silver (ZNS)	M18 10.9		330 N.m
	yellow (ZN)	M18 12.9		470 N.m
	silver (ZNS)	M18 12.9		365 N.m
M18x1.5 thread	yellow (ZN)	M18 x 1.5 8.8		313 N.m
	silver (ZNS)	M18 x 1.5 8.8		245 N.m
	yellow (ZN)	M18 x 1.5 10.9		440 N.m
	silver (ZNS)	M18 x 1.5 10.9		360 N.m
	yellow (ZN)	M18 x 1.5 12.9		527 N.m
	silver (ZNS)	M18 x 1.5 12.9		400 N.m

00 00 M4 AND M5 - MAXIMUM TIGHTENING TORQUES ACC. TO BMW GS 90003-2**00 00 M4 AND M5 - MAXIMUM TIGHTENING TORQUES ACC. TO BMW GS 90003-2**

	Type	Thread	Tightening specification	Measure
Scope of applicability of tightening torques, refer to EXCERPT FROM COMPANY STANDARD BMW GS 90003-2	Surface colour / (surface coating)			
M4 thread	yellow (ZN)	M4 8.8		3 N.m
	silver (ZNS)	M4 8.8		2 N.m
	yellow (ZN)	M4 10.9		4 N.m
	silver (ZNS)	M4 10.9		3 N.m
	yellow (ZN)	M4 12.9		5 N.m
M5 thread	yellow (ZN)	M5 8.8		6 N.m
	silver (ZNS)	M5 8.8		5 N.m
	yellow (ZN)	M5 10.9		8 N.m
	silver (ZNS)	M5 10.9		7 N.m
	yellow (ZN)	M5 12.9		10 N.m
	silver (ZNS)	M5 12.9		8 N.m

00 00 M6 AND M7 - MAXIMUM TIGHTENING TORQUES ACC. TO BMW GS 90003-2**00 00 M6 AND M7 - MAXIMUM TIGHTENING TORQUES ACC. TO BMW GS 90003-2**

	Type	Thread	Tightening specification	Measure
Scope of applicability	Surface colour /			

2007 BMW X3

GENERAL INFORMATION Maintenance and General Information - Tightening Torques - X3

of tightening torques, refer to <u>EXCERPT FROM COMPANY STANDARD BMW GS 90003-2</u>	(surface coating)			
M6 thread	yellow (ZN)	M6 8.8		10 N.m
	silver (ZNS)	M6 8.8		8 N.m
	yellow (ZN)	M6 10.9		14 N.m
	silver (ZNS)	M6 10.9		12 N.m
	yellow (ZN)	M6 12.9		17 N.m
	silver (ZNS)	M6 12.9		13 N.m
M7 thread	yellow (ZN)	M7 8.8		15 N.m
	silver (ZNS)	M7 8.8		13 N.m
	yellow (ZN)	M7 10.9		21 N.m
	silver (ZNS)	M7 10.9		19 N.m
	yellow (ZN)	M7 12.9		26 N.m
	silver (ZNS)	M7 12.9		21 N.m

00 00 M8 AND M8 X 1 - MAXIMUM TIGHTENING TORQUES ACC. TO BMW GS 90003-2

00 00 M8 AND M8 X 1 - MAXIMUM TIGHTENING TORQUES ACC. TO BMW GS 90003-2

	Type	Thread	Tightening specification	Measure
Scope of applicability of tightening torques, refer to <u>EXCERPT FROM COMPANY STANDARD BMW GS 90003-2</u>	Surface colour / (surface coating)			
M8 thread	yellow (ZN)	M8 8.8		24 N.m
	silver (ZNS)	M8 8.8		19 N.m
	yellow (ZN)	M8 10.9		34 N.m
	silver (ZNS)	M8 10.9		28 N.m
	yellow (ZN)	M8 12.9		40 N.m
	silver (ZNS)	M8 12.9		32 N.m
M8x1 thread	yellow (ZN)	M8 x 1 8.8		26 N.m
	silver (ZNS)	M8 x 1 8.8		21 N.m
	yellow (ZN)	M8 x 1 10.9		36 N.m
	silver (ZNS)	M8 x 1 10.9		30 N.m
	yellow (ZN)	M8 x 1 12.9		44 N.m
	silver (ZNS)	M8 x 1 12.9		33 N.m

GENERAL INFORMATION

BMW - Gasoline - 1982-2012

BRAKE PAD WARNING LIGHT

- NOTE:** Most vehicles are equipped with a Malfunction Indicator Light (MIL) or check engine light. If light comes on and remains on while driving, the vehicle requires some type of repair. See appropriate service and repair information. After repairing fault(s) and clearing fault code(s), the Malfunction Indicator Light (MIL) or check engine light should go out. Some models may use a dual-function indicator light, which is also used to indicate emission component service is due. After performing required service, reset indicator light.
- NOTE:** Brake pad warning light should go out after replacement of brake pad thickness sensor. If warning light does not go out, turn ignition on, engine off, for 30-45 seconds. Warning light should go out. If the above procedure is not successful, connect vehicle to DIS tester, access Instrument Cluster/IKE, then "clear fault memory".
- NOTE:** The base instrument cluster OIL SERVICE INSPECTION display is located on the bottom of the cluster, to the right of center. The base cluster is also equipped with a graphic display of the car that shows if a door or the trunk lid is open. The high instrument cluster OIL SERVICE INSPECTION display is located on the bottom of the cluster, to the left of center.
- NOTE:** To determine the appropriate reset procedure, refer to BRAKE PAD WARNING LIGHT RESET INDEX. Only vehicles listed in this index have a specific brake pad warning light reset procedure. For other vehicles, perform PROCEDURE 1 first. If light does not reset, perform PROCEDURE 2. If the above procedures are not successful, connect vehicle to DIS tester, access Instrument Cluster/IKE, then "clear fault memory".

BRAKE PAD WARNING LIGHT RESET INDEX

Model & Year	Reset Procedure
5-Series	
1997-00 (w/High Instrument Cluster)	<u>Brake Pad Warning Light Reset - Procedure 1</u>
1997-00 (w/Base Instrument Cluster)	<u>Brake Pad Warning Light Reset - Procedure 2</u>
7-Series	
1997-00	<u>Brake Pad Warning Light Reset - Procedure 1</u>

BRAKE PAD WARNING LIGHT RESET - PROCEDURE 1

2007 BMW X3

GENERAL INFORMATION BMW - Gasoline - 1982-2012

To reset light after replacing brake pads, turn ignition on with engine off. Wait 30 seconds. Brake pad warning indicator light will switch off.

BRAKE PAD WARNING LIGHT RESET - PROCEDURE 2

Start engine. Brake pad warning indicator will switch off.

OXYGEN SENSOR WARNING LIGHT

NOTE: To determine the appropriate reset procedure, refer to **OXYGEN SENSOR WARNING LIGHT RESET INDEX**. Only vehicles listed in this index have an oxygen sensor warning light.

OXYGEN SENSOR WARNING LIGHT RESET INDEX

Model & Year	Reset Procedure
All Models	
1983 & Earlier	<u>Oxygen Sensor Warning Light Reset - Procedure 1</u>
1984 & Later	<u>Oxygen Sensor Warning Light Reset - Procedure 2</u>

OXYGEN SENSOR WARNING LIGHT RESET - PROCEDURE 1

1. Every 30,000 miles (25,000 miles on 528i) the OXYGEN light in dash will come on as a reminder to replace the oxygen sensor.

NOTE: On 528e models, pull the protective metal plate off before removing oxygen sensor.

2. On 528e models, no interval reset switch is provided. After replacing sensor, remove instrument panel. Remove and discard bulb for OXYGEN sensor light.
3. On all other models, trace speedometer cable to interval switch (in-line with cable, mounted on frame rail left of transmission). Press White reset button. See **Fig. 1**. Ensure warning light is out.

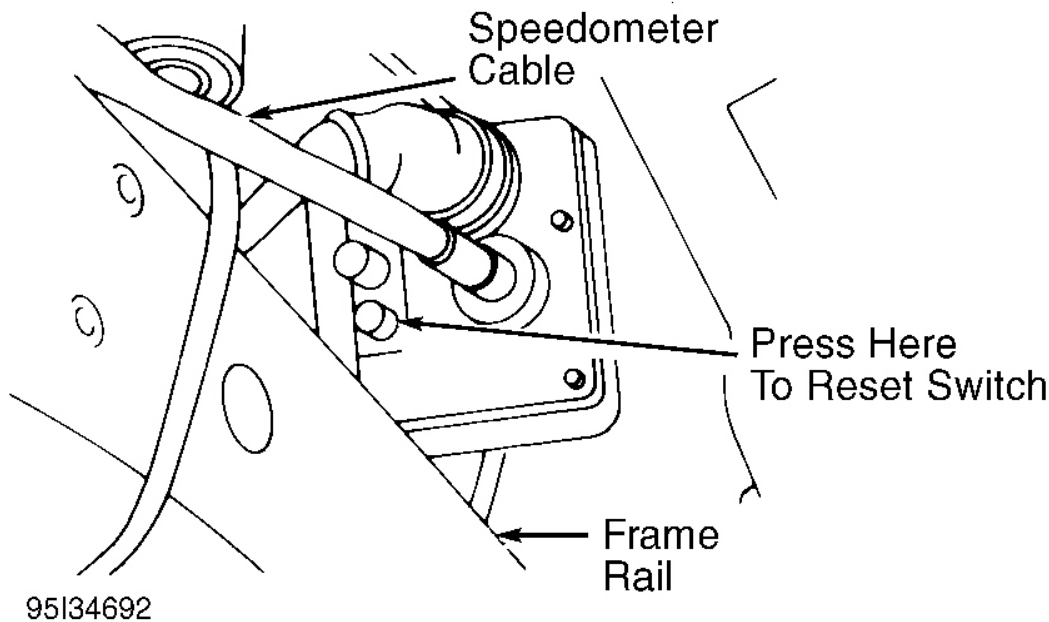


Fig. 1: Locating Oxygen Sensor Warning Light Reset Switch (All BMW Models Before 1983)
Courtesy of BMW OF NORTH AMERICA, INC.

OXYGEN SENSOR WARNING LIGHT RESET - PROCEDURE 2

NOTE: Some late production (February 1985 and later) BMW models have a reset button on rear of the light control assembly located near pedal assembly. Press button to reset light after servicing oxygen sensor.

No reset switch is provided. When oxygen sensor light comes on, service oxygen sensor. Remove and discard bulb from indicator.

SERVICE INTERVAL REMINDER LIGHTS

NOTE: This is sometimes referred to as the "Oil Change Light" or "Oil Service Light".

NOTE: The service indicator can only be reset using the reset mode in the instrument cluster or by using BMW hardware. This procedure applies to 3-Series from production date 9/99, and 5-Series and 7-Series from production date 9/00 (except 2002-05 7-Series and 2004-05 5-Series) without an engine compartment diagnostic connector.

- On models that still use the round diagnostic connector in engine compartment, use SIA reset tool to reset service lights. See SERVICE

INTERVAL LIGHT RESET - PROCEDURE 1.

- On models without the round diagnostic connector in the engine compartment, the use of the SIA reset tool is not possible. See **SERVICE INTERVAL LIGHT RESET - PROCEDURE 2.**
- For 2002-up models with condition based service (CBS) interval system reset procedure, see **SERVICE INTERVAL LIGHT RESET - PROCEDURE 3.**

NOTE: To determine the appropriate reset procedure, refer to **SERVICE INTERVAL REMINDER LIGHT RESET INDEX.** Only vehicles listed in this index have a service interval reminder.

SERVICE INTERVAL REMINDER LIGHT RESET INDEX

Model & Year	Reset Procedure
Models With Engine Compartment Diagnostic Connector	
1983-05	<u>Service Interval Light Reset - Procedure</u> <u>1</u>
Models Without Engine Compartment Diagnostic Connector	
2001-05	<u>Service Interval Light Reset - Procedure</u> <u>2</u>
Models With Condition Based Service (CBS) Interval System	
2002-12	<u>Service Interval Light Reset - Procedure</u> <u>3</u>
Models Without Condition Based Service (CBS) Interval System	
2004-05	<u>Service Interval Light Reset - Procedure</u> <u>4</u>

DESCRIPTION & OPERATION

Starting in 1983 and ending on some models in 1999, service indicator on instrument panel consists of 5 Green, 3 Red and one Yellow Light Emitting Diodes (LED) and the inscriptions OIL SERVICE and INSPECTION. When ignition is on, as many as 5 Green LEDs will light up. The Green LEDs go out when the engine is started. If the Yellow LED glows and one of the inscriptions comes on and remains on when the engine is started, maintenance service is due immediately. When maintenance interval has been exceeded (after approximately 1000 miles) the Red LED's will come on in addition to the Yellow LED as a reminder for servicing.

Beginning on some models in 1999, a new method for displaying the service interval is used. Colored LEDs are no longer used to display the amount of time until the next service or inspection is due. The actual mileage remaining until the next service will be displayed for five seconds when the ignition is first switched on. The text OIL SERVICE or INSPECTION will also illuminate to show which service is due. A minus symbol (-) before the mileage display indicates that a service is past due.

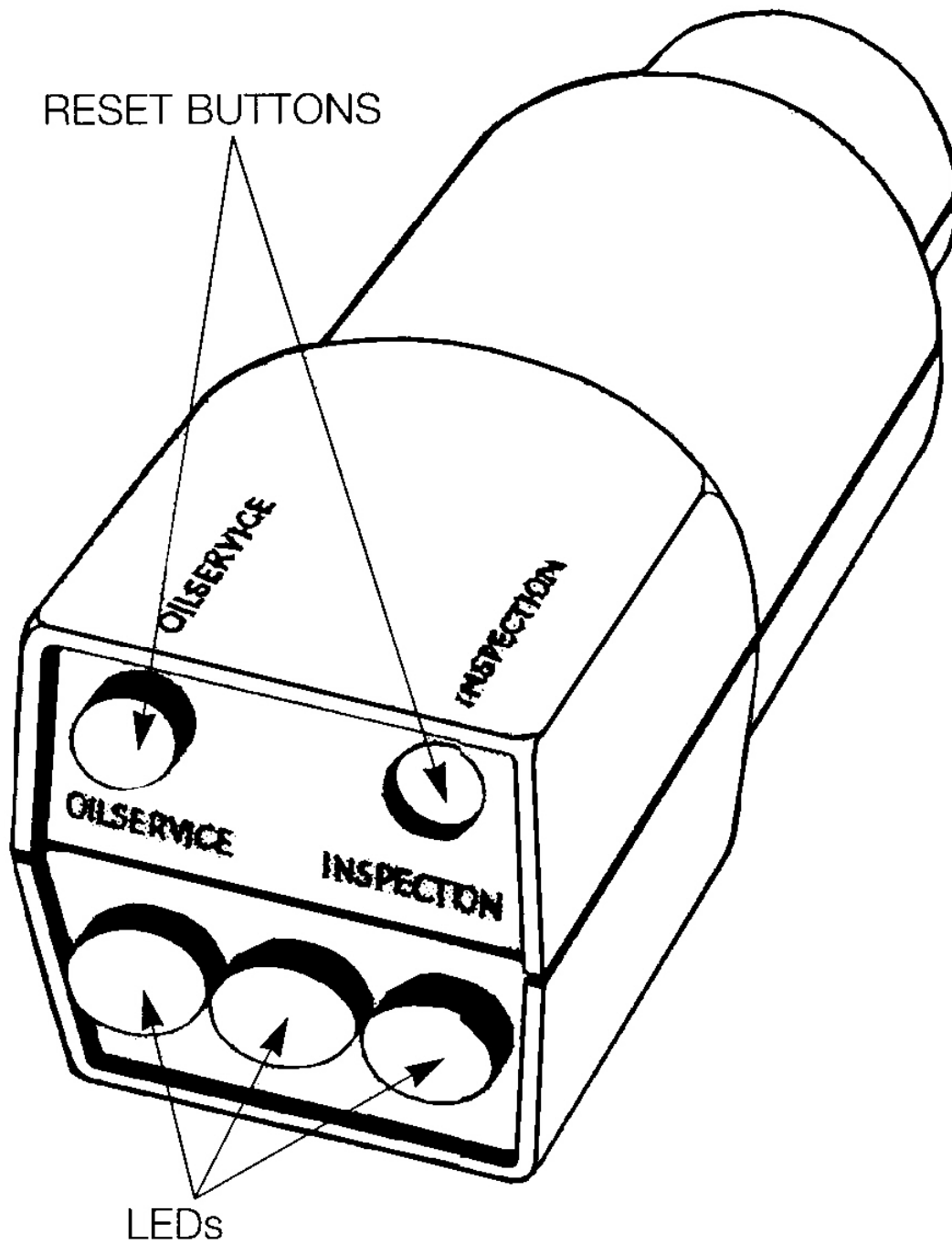
The 2002-05 models with condition based service (CBS) interval system uses an entirely different service interval system. See **SERVICE INTERVAL LIGHT RESET - PROCEDURE 3.**

SERVICE INTERVAL LIGHT RESET - PROCEDURE 1

2007 BMW X3

GENERAL INFORMATION BMW - Gasoline - 1982-2012

1. To reset instrument cluster SIA OIL SERVICE indicator, turn ignition switch to ON position. Connect Service Indicator Resetter (62 1 110) to diagnosis connector in engine compartment. See **Fig. 2**.
2. Press Yellow OIL SERVICE button. Green LED will illuminate. Wait until Yellow LED illuminates and then goes out again. Ensure that OIL SERVICE indicator has been reset.
3. To reset SERVICE INTERVAL indicator, press Red INSPECTION service button for inspection. Green LED illuminates. Wait until Red LED illuminates and then goes out again. Turn ignition switch to OFF position, wait 20 seconds and repeat procedure in order to adapt interval of annual inspection to inspection. Ensure that SERVICE INTERVAL indicator has been reset.



G00131569

Fig. 2: Identifying BMW Service Interval Reset Tool
Courtesy of BMW OF NORTH AMERICA, INC.

Reset service light by performing the following:

1. Ignition key must be in OFF position.
2. Press and hold trip odometer reset button in the instrument cluster (left button), and turn ignition key to first position.
3. Keep the button pressed for approximately 5 seconds until one of the following words appear in the display: "OIL SERVICE", or "INSPECTION", with "RESET".
4. Release reset button and press it again until "RESET" begins to flash in the display. See **Fig. 3** and **Fig. 4**.
5. Service due is shown with "RESET" if coded minimum consumption limit has been reached and resetting is possible. If "RESET" is not shown, minimum limit has not been reached and resetting is not possible.
6. While "RESET" is flashing, press left button briefly to reset service interval. After display has shown new interval, following will appear: "END SIA".
7. System can only be reset again after 2.5 gallons of fuel have been consumed.

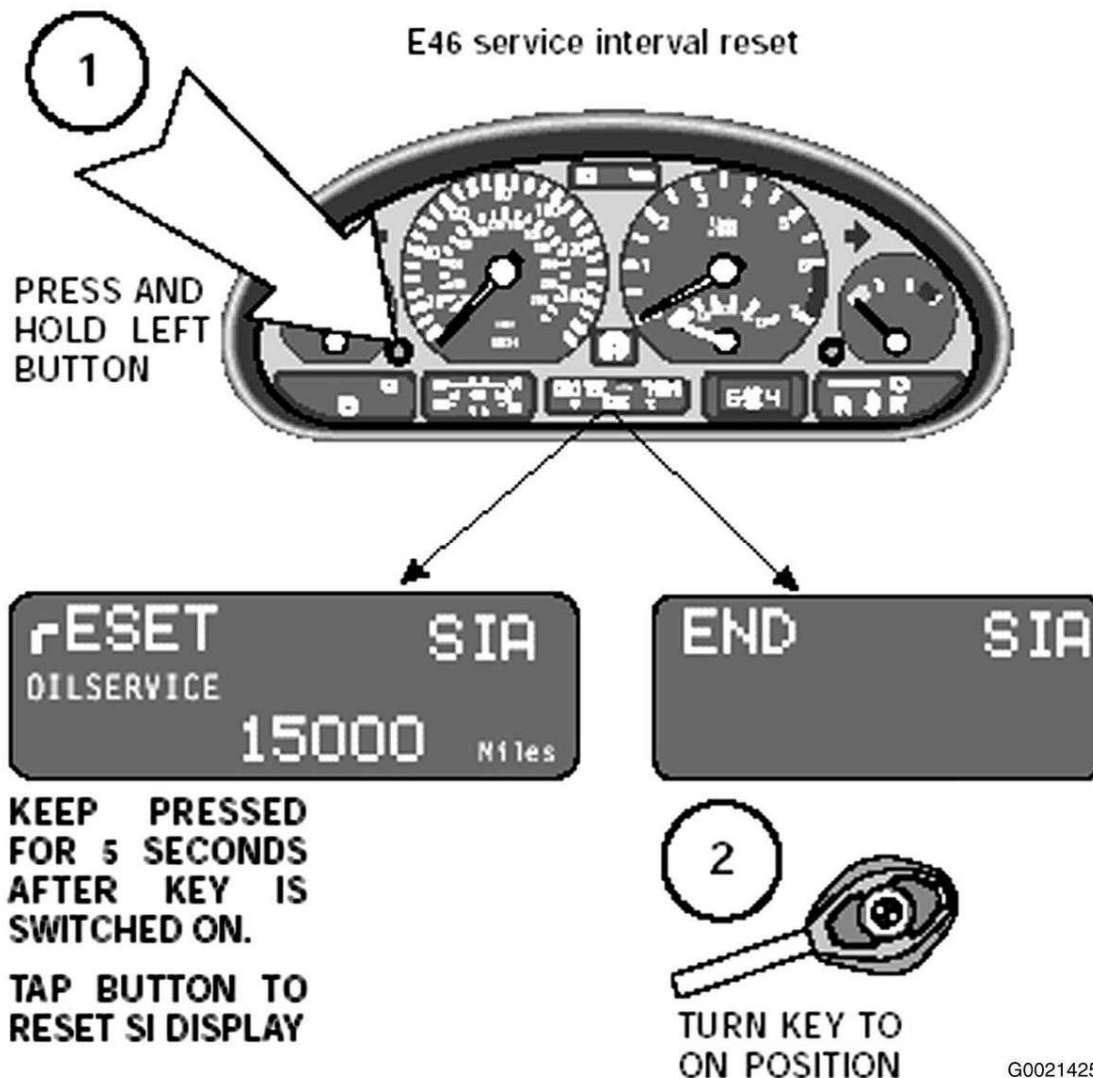
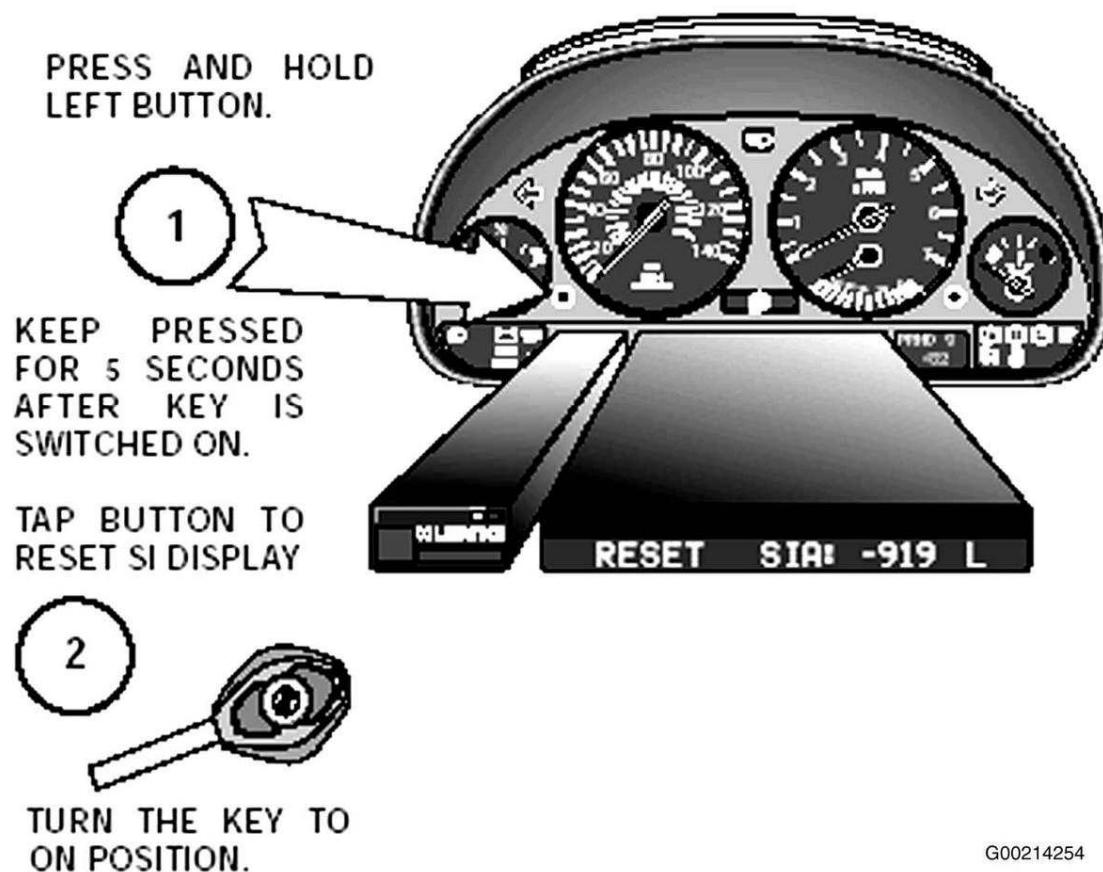


Fig. 3: Resetting Service Interval Light (E46)

Courtesy of BMW OF NORTH AMERICA, INC.

E39 service interval reset (High Version)**Fig. 4: Resetting Service Interval Light (E39)**

Courtesy of BMW OF NORTH AMERICA, INC.

SERVICE INTERVAL LIGHT RESET - PROCEDURE 3

Models use a Condition Based Service (CBS) service interval system, which displays a Service Need Display (SND). When ignition is on, Service Need Display appears under the speedometer in the instrument cluster for 10 seconds in the place where the fuel tank level is normally displayed. The first line corresponds to the mileage dependent service items. It specifies the mileage when the next service is due.

If the mileage is exceeded (service overdue), it appears with a minus sign. The second line corresponds to the time dependent service items and is displayed by a clock symbol. It specifies the weeks/months/years when the next service is due. If the service is overdue, it appears with a minus sign. The actual service item (with additional information) can be viewed in the control display.

NOTE: On some models an appropriate scan tool may be used to reset CBS service schedules. By using suitable diagnostic equipment connected to the vehicle diagnostic connector it is possible to reset CBS service schedules at any time.

By selecting the `CBS' option, the diagnostic equipment will gather information regarding the current state of CBS items from their relevant modules on the CAN network.

Service reset is accomplished using instrument cluster:

1. Insert key into ignition.
2. Press start/stop button without depressing the clutch or brake, and wait for the service reminder to disappear.
3. Immediately after the service reminder indicator goes out, press and hold the odometer reset button. After 3 secs a warning triangle will appear, keep the odometer button pressed and after another 2-3 secs an oil can will appear.

NOTE: If the odometer button is pressed too long (10 secs in total), German writing will appear (giving the software level/ can bus etc. of the vehicle). This indicates that you've overshoot the reset procedure and you need to re-start from the beginning.

4. The service menu should now be displayed. Use the toggle switch on indicator stalk (twisting the stalk) to scroll up/down through the various service items.
5. When the item to be reset is showing, press the BC button on end of indicator stalk. "Reset" should now appear in the display. Press in and hold the BC button for 2-3 secs and a whirling clock icon will be displayed. The reset procedure for the selected service item is done.
6. Scroll up/down to select another item (as in step 4), or press the start/stop button to exit.

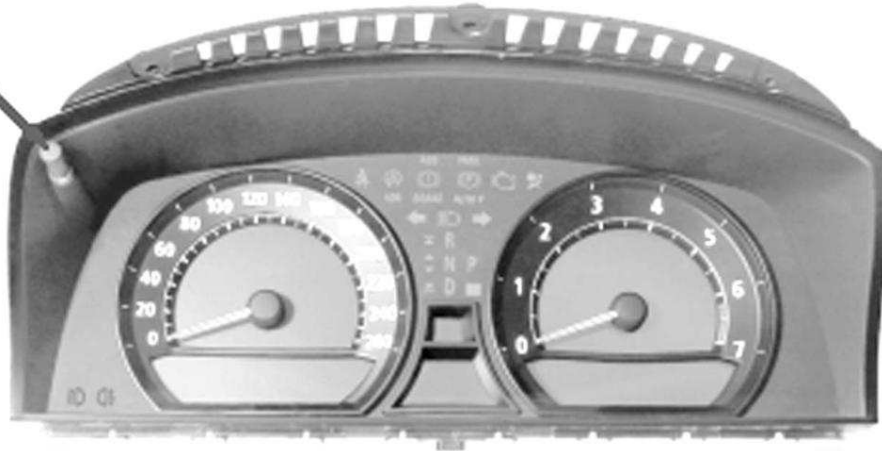
NOTE: Residual wear or remaining time are specified (possibly with a minus sign). The "1" symbol means that you can reset service operation (early production vehicles may show an "F"), while a "0" indicates it is not resettable (the first 20 percent of the service interval is also protected against accidental reset). For additional information about Condition Based Service (CBS), see RESETTING AND CORRECTING CONDITION BASED SERVICE under PROGRAMMING in SELF-DIAGNOSIS - 7-SERIES article.

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GENERAL INFORMATION BMW - Gasoline - 1982-2012

Reset Button

Press and
hold for 10
seconds.



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Fig. 5: Identifying Condition Based Service (CBS) Instrument Panel Controls (1 Of 2)
Courtesy of BMW OF NORTH AMERICA, INC.



Service item menu

Reset mode for each individual service
item is entered by pressing item in menu
for > 2 seconds.

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Fig. 6: Identifying Condition Based Service (CBS) Instrument Panel Controls (2 Of 2)
Courtesy of BMW OF NORTH AMERICA, INC.

SERVICE INTERVAL LIGHT RESET - PROCEDURE 4

The BMW maintenance system SIA IV (service interval indicator) is used on X3 models (E83). The service interval indicator is a system subject to constant development which in its development stages has been integrated in various model series such as E85 (Z4) and E46 (3 and M3-Series).

The service indicator appears in the LC display in the instrument cluster's speedometer. The indicator is shown for 5 seconds in the LC display after terminal R is "ON". See **Fig. 7**.

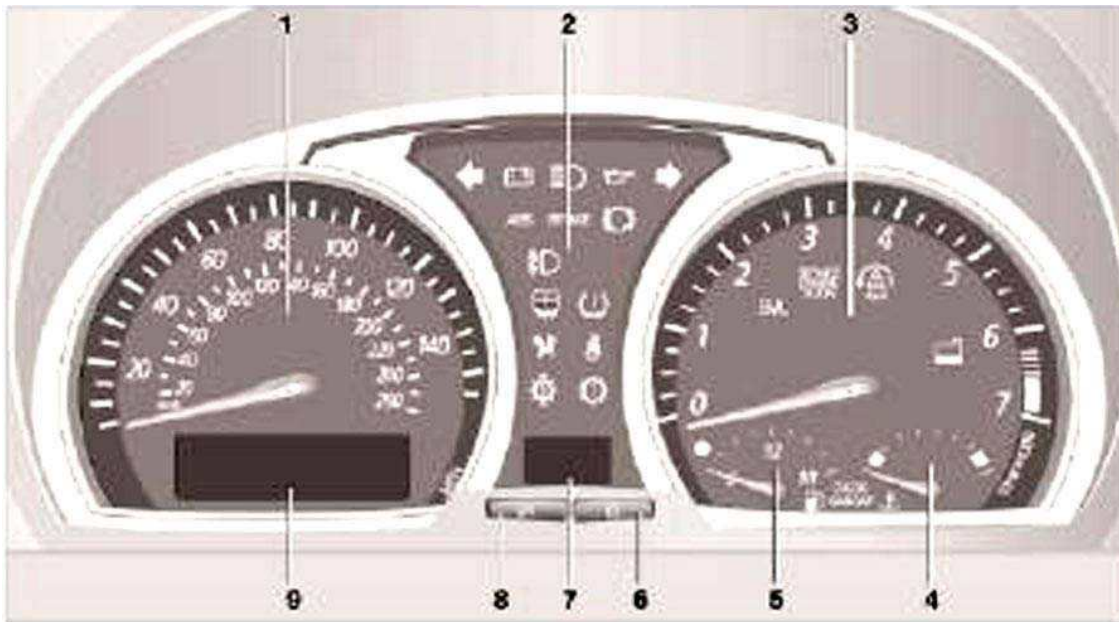


G00313209

Fig. 7: Identifying Service Interval Indicator
 Courtesy of BMW OF NORTH AMERICA, INC.

Resetting Service Interval Indicator

Resetting the service interval indicator for the oil service and inspection procedures can only be done by pressing the left button in the instrument cluster. See **Fig. 8**.



- | | |
|------------------------------|--|
| 1. Speedometer | 6. Button for display of Time and Service Interval |
| 2. Indicator Warning Lamps | 7. Display for Selector lever and program display |
| 3. Tachometer | 8. Button for reset of Trip Odometer and Time |
| 4. Coolant Temperature Gauge | 9. Display for Time, Service Interval, OBC |
| 5. Fuel Gauge | |

G00313208

Fig. 8: Identifying Service Interval Indicator Reset Button

Courtesy of BMW OF NORTH AMERICA, INC.

TIRE PRESSURE MONITOR SYSTEM (TPMS)

NOTE: If a tire pressure has been adjusted, or a wheel or tire has been changed or replaced, or repairs have been made to air spring suspension, the TPM system must be reinitialized. System must be reinitialized both before and after pulling a trailer.

CAUTION: When driving with snow chains or a space-saver spare tire, DO NOT initialize the system.

NOTE: To determine the appropriate reset procedure, refer to TPMS RESET INDEX. Only vehicles listed in this index have a TPMS reset.

TPMS RESET INDEX

Model & Year	Reset Procedure
1-Series (128i & 135i)	
2008	<u>TPMS Reset - Procedure 6</u>
2009-12	<u>TPMS Reset - Procedure 7</u>
3-Series	
2001-08	<u>TPMS Reset - Procedure 1</u>
2009-11	<u>TPMS Reset - Procedure 7</u>
5-Series	
2001-03	<u>TPMS Reset - Procedure 1</u>
2004-09	<u>TPMS Reset - Procedure 6</u>
2010-12	<u>TPMS Reset - Procedure 7</u>
6-Series	
2004-09	<u>TPMS Reset - Procedure 6</u>
2010-10	<u>TPMS Reset - Procedure 7</u>
2012	<u>TPMS Reset - Procedure 7</u>
7-Series	
2002-05	<u>TPMS Reset - Procedure 2</u>
2006-12	<u>TPMS Reset - Procedure 7</u>
Alpina	
2007-08	<u>TPMS Reset - Procedure 4</u>
2011-12	<u>TPMS Reset - Procedure 7</u>
M3	
2001-06	<u>TPMS Reset - Procedure 1</u>
2008	<u>TPMS Reset - Procedure 6</u>
2009-13	<u>TPMS Reset - Procedure 7</u>

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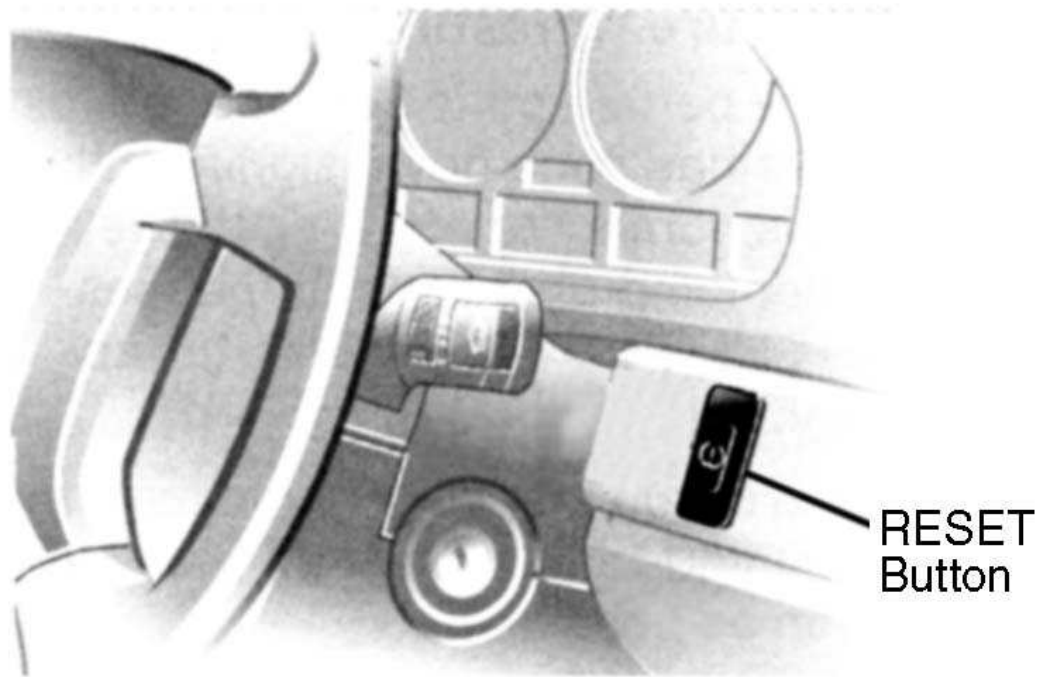
M5	
2002-03	<u>TPMS Reset - Procedure 3</u>
2006-08	<u>TPMS Reset - Procedure 6</u>
2009-10	<u>TPMS Reset - Procedure 7</u>
M6	
2006-07	<u>TPMS Reset - Procedure 6</u>
2008-10	<u>TPMS Reset - Procedure 7</u>
2012	<u>TPMS Reset - Procedure 7</u>
M-Coupe & M-Roadster	
2006-08	<u>TPMS Reset - Procedure 5</u>
X3	
2004-10	<u>TPMS Reset - Procedure 5</u>
2011-12	<u>TPMS Reset - Procedure 7</u>
X5 & X5 M	
2001-05	<u>TPMS Reset - Procedure 1</u>
2006	<u>TPMS Reset - Procedure 5</u>
2007-12	<u>TPMS Reset - Procedure 7</u>
X6 & X6 M	
2008-12	<u>TPMS Reset - Procedure 7</u>
Z3	
2001-02	<u>TPMS Reset - Procedure 1</u>
Z4	
2003-06	<u>TPMS Reset - Procedure 1</u>
2007-08	<u>TPMS Reset - Procedure 5</u>
2009-12	<u>TPMS Reset - Procedure 7</u>
Z8	
2001-03	<u>TPMS Reset - Procedure 1</u>

TPMS RESET - PROCEDURE 1

1. Set the tire pressure on all wheels to specification.
2. Turn ignition switch to ON position, with engine off.
3. Press reset button (for no longer than 10 seconds) until tire pressure warning light illuminates Yellow for a few seconds. See [Fig. 9](#), [Fig. 10](#), [Fig. 11](#) or [Fig. 12](#) .

NOTE: On some X5 models, the reset button is marked "RDC".

4. Drive vehicle. Initialization is automatically completed during the drive, without any feedback issued.

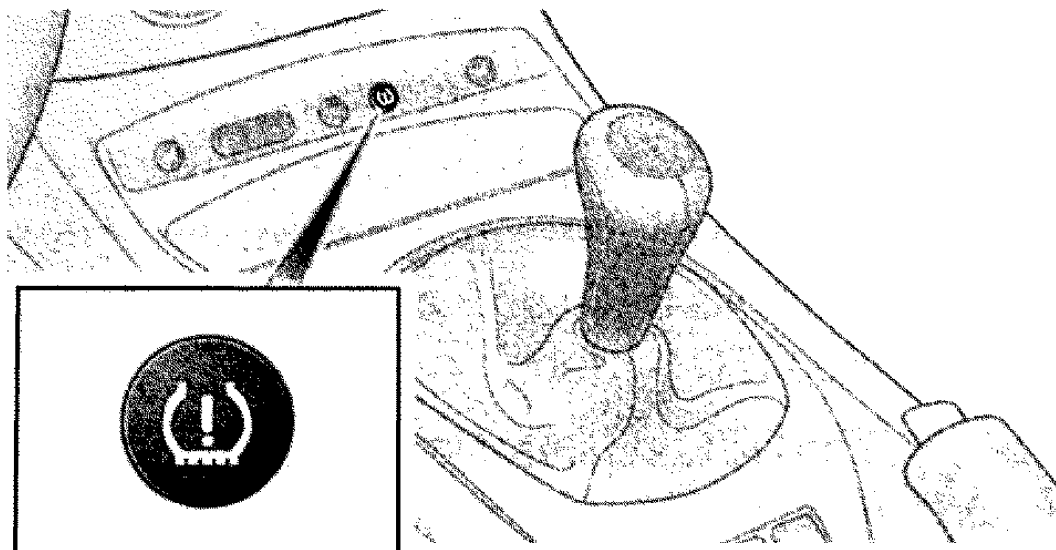


G00251683

Fig. 9: Locating TPM System Reset Button (5-Series)
Courtesy of BMW OF NORTH AMERICA, INC.

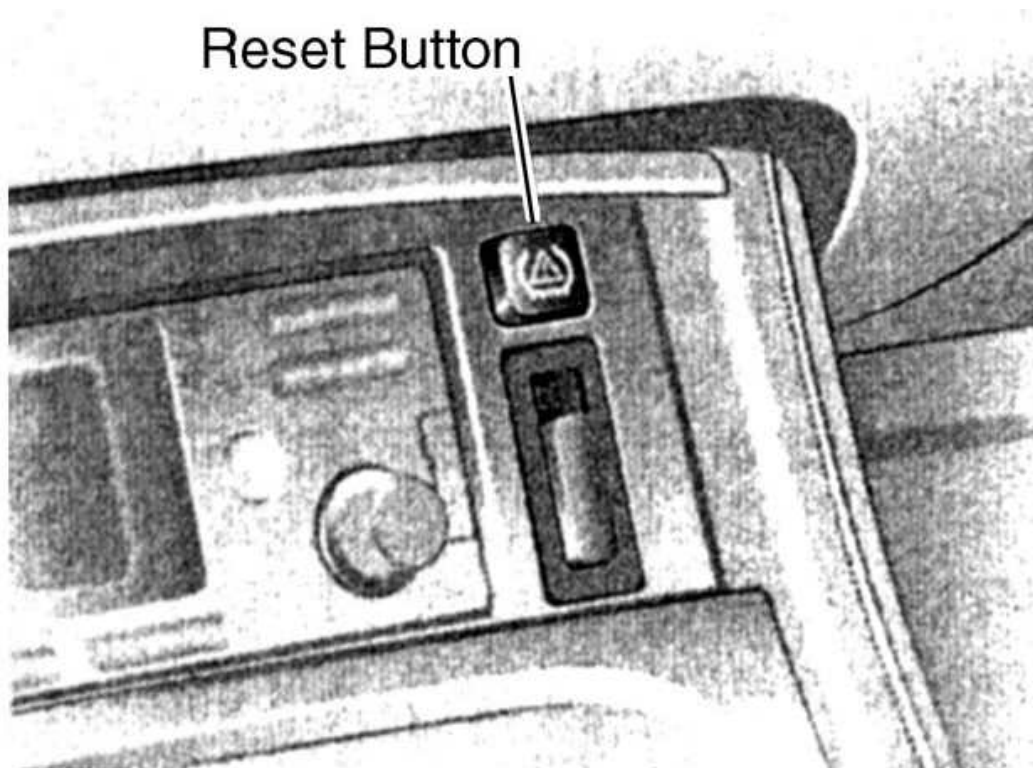


Fig. 10: Locating TPM System Reset Button (3-Series & X5 - Typical)
Courtesy of BMW OF NORTH AMERICA, INC.



G00225521

Fig. 11: Locating TPM System Reset Button (Z4)
Courtesy of BMW OF NORTH AMERICA, INC.



G00251684

Fig. 12: Locating TPM System Reset Button (Z28)
Courtesy of BMW OF NORTH AMERICA, INC.

NOTE: The initialization finishes during driving, which can be interrupted at any time. When driving resumes, the initialization is continued automatically.

1. Set the tire pressure of all wheels to specification.
2. Start engine, but do not start driving.
3. On Control Center, select "RPA" from the "SETTINGS" menu and confirm selection. The initialization menu will appear. See **Fig. 13**.
4. Select "SET" and confirm selection.
5. Drive vehicle. The message "FTM IS BEING INITIALIZED" will be displayed. See **Fig. 14**.

NOTE: It takes at least 10 minutes before the TPM system can detect and report a flat tire.

6. Select counterclockwise left arrow button and confirm to exit from menu.



Fig. 13: Identifying TPM System Reinitialization Messages (1 Of 2)
Courtesy of BMW OF NORTH AMERICA, INC.

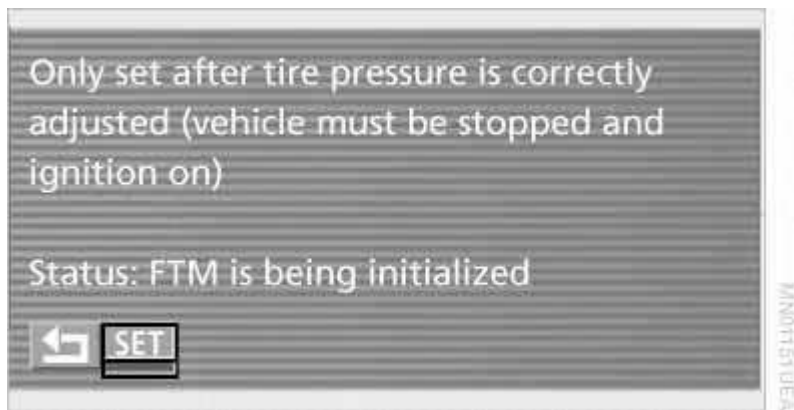


Fig. 14: Identifying TPM System Reinitialization Messages (2 Of 2)
Courtesy of BMW OF NORTH AMERICA, INC.

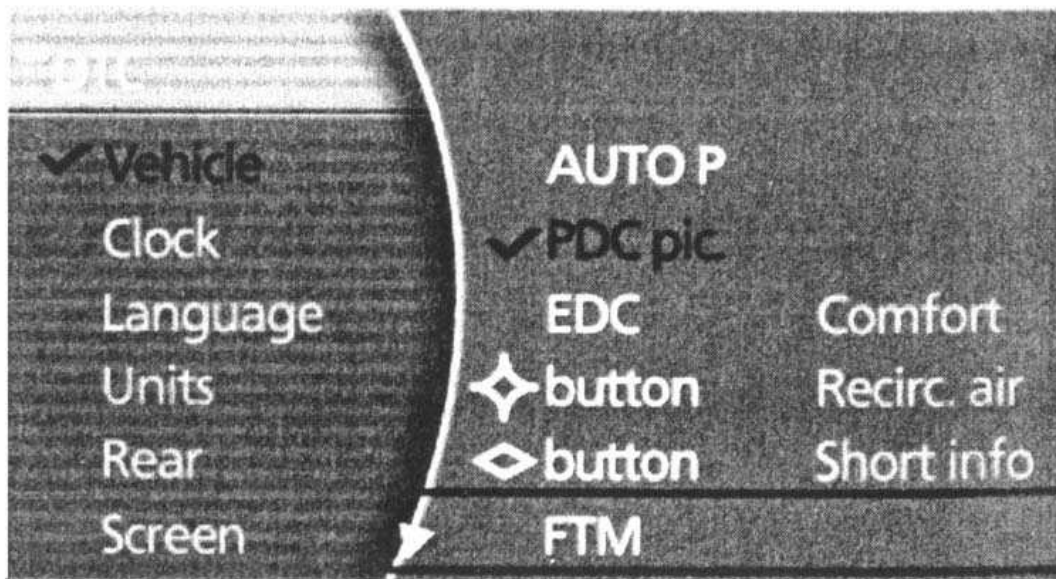
NOTE: **The initialization finishes during driving, which can be interrupted at any time. When driving resumes, the initialization is continued automatically.**

1. Set the tire pressure of all wheels to specification.
2. Start the engine.
3. Press iDrive knob down once to enter Vehicle Info.
4. Select Settings.
5. Select Vehicle Tires.
6. Select TPM.
7. Select Reset.
8. Scroll to Yes.
9. Select "YES" and press the controller.
10. After selecting Yes, drive vehicle until tires on iDrive screen turn green.

TPMS RESET - PROCEDURE 4

NOTE: **The initialization finishes during driving, which can be interrupted at any time. When driving resumes, the initialization is continued automatically.**

1. Set the tire pressure of all wheels to specification.
2. Press "MENU" button to open start menu.
3. Open the i-menu of the Control Center.
4. Select "SETTINGS" and press the controller.
5. Select "VEHICLE" and press the controller. See **Fig. 15**.
6. Select "TIRES: TPM" and press controller.
7. Start engine, but do not start driving.
8. Select "RESET" and press the controller.
9. Select "YES" and press the controller.
10. Drive vehicle. The message "RESETTING TPM...." will be displayed. Initialization is automatically completed during the drive. When initialization is complete, "STATUS: TPM ACTIVE" message will be displayed.



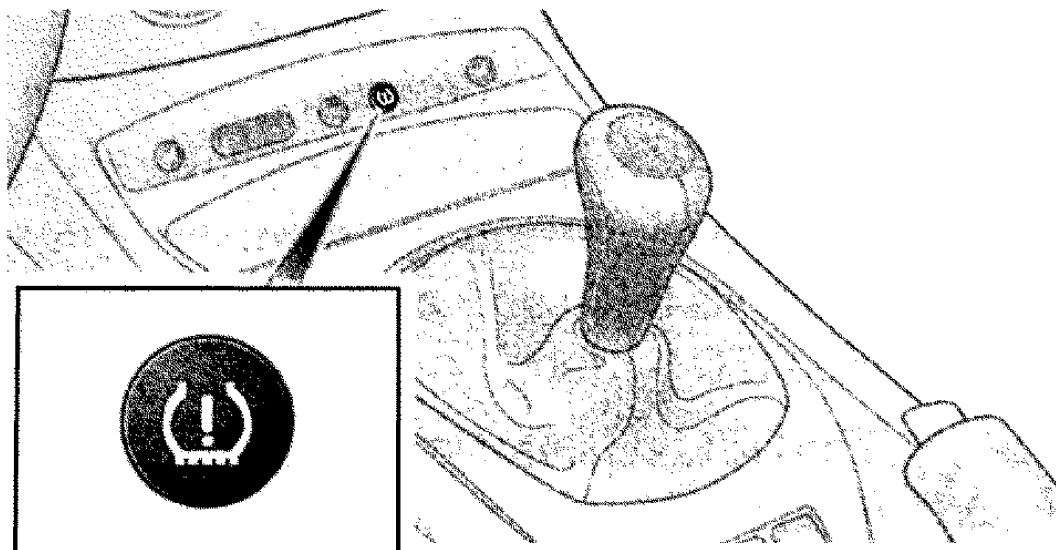
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Fig. 15: Identifying TPM System Reinitialization Messages
Courtesy of BMW OF NORTH AMERICA, INC.

TPMS RESET - PROCEDURE 5

CAUTION: When driving with snow chains or a space-saver spare tire, DO NOT initialize the system.

1. Set the tire pressure of all wheels to specification.
2. Start engine, but do not start driving.
3. Press reset button (for no longer than 10 seconds) until tire pressure warning light illuminates Yellow for a few seconds. See **Fig. 16**, **Fig. 17**, **Fig. 18** or **Fig. 19**.
4. Drive vehicle. Initialization is automatically completed during the drive, without any feedback issued.



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Fig. 16: Locating TPM System Reset Button (M-Coupe & Roadster)

Courtesy of BMW OF NORTH AMERICA, INC.

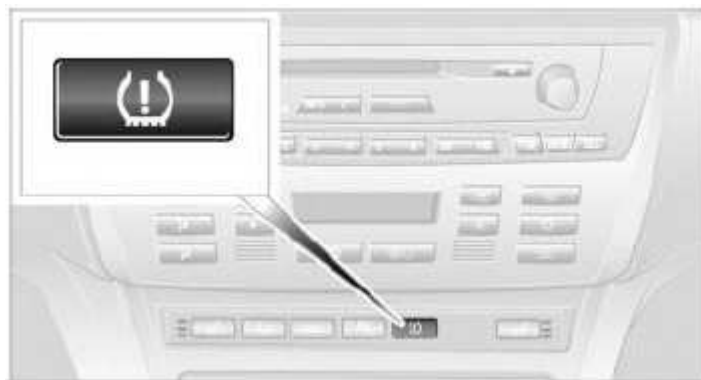
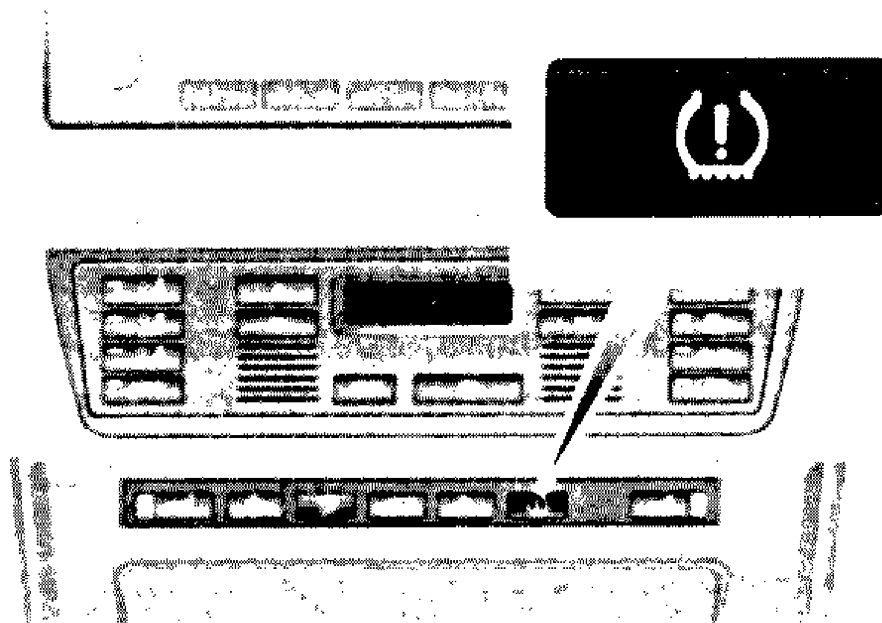


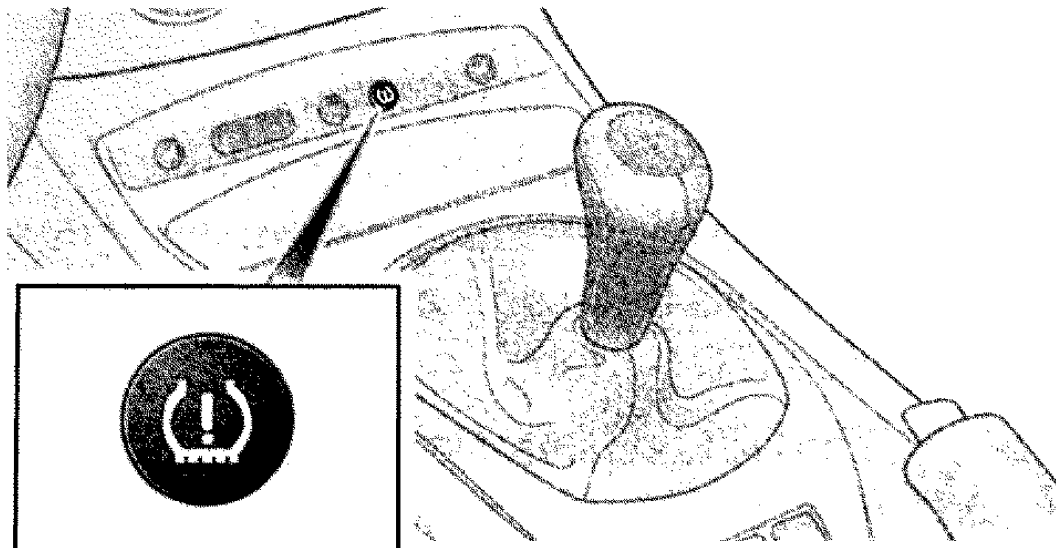
Fig. 17: Locating TPM System Reset Button (X3)

Courtesy of BMW OF NORTH AMERICA, INC.



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Fig. 18: Locating TPM System Reset Button (X5)
 Courtesy of BMW OF NORTH AMERICA, INC.



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Fig. 19: Locating TPM System Reset Button (Z4)
 Courtesy of BMW OF NORTH AMERICA, INC.

TPMS RESET - PROCEDURE 6

Resetting TPM With iDrive

1. Set the tire pressure of all wheels to specification.
2. Turn ignition switch ON.
3. Press controller to call up I menu. See **Fig. 20**.
4. Select SETTINGS and press controller.
5. Select CAR/TIRES and press controller.
6. If necessary, switch to top field and select TIRES/RDC and press controller.
7. Start engine.
8. Select CONFIRM TIRE PRESSURE and press controller.
9. Drive vehicle. Initialization is automatically completed during the drive, without any feedback issued.



Fig. 20: Locating TPM System Reset Button (With iDrive)
Courtesy of BMW OF NORTH AMERICA, INC.

Resetting TPM Without iDrive

1. Set the tire pressure of all wheels to specification.
2. Start engine.
3. Move turn signal lever up or down until TPM warning symbol and RESET appears. See **Fig. 21**.
4. Press BC button on end of turn signal lever to confirm selection.
5. Press and hold BC button for approximately 5 seconds until a CHECK/TICK appears after RESET.
6. Drive vehicle. Initialization is automatically completed during the drive, without any feedback issued.

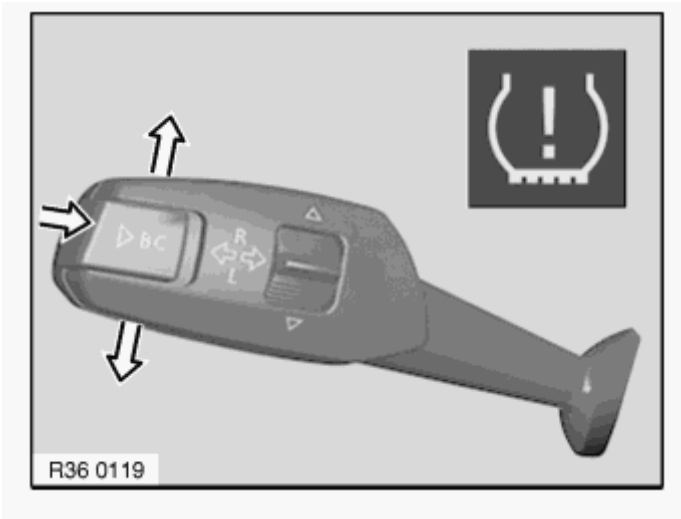


Fig. 21: Locating TPM System Reset Button (Without iDrive)
Courtesy of BMW OF NORTH AMERICA, INC.

TPMS RESET - PROCEDURE 7

With iDrive

Indirect System (Flat Tire Monitor)

CAUTION: Do not initialize the system while snow chains are attached.

NOTE: Each time a tire inflation pressure has been corrected or a wheel or tire has been changed, reset the system.

Initialization:

1. Using the iDrive MENU button, choose:
2. "Vehicle Info"
3. "Vehicle status"
4. "Reset"
5. Start the engine.
6. Start the initialization using "Reset". See **Fig. 22**.
7. Start to drive.

The initialization is completed during driving, which can be interrupted at any time. When driving resumes, the initialization is continued automatically.

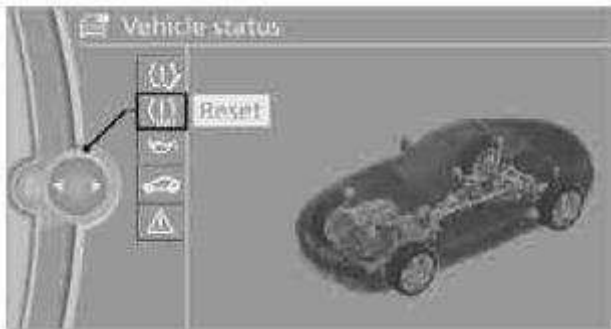


Fig. 22: iDrive Showing Tire Monitor "Reset"
 Courtesy of BMW OF NORTH AMERICA, INC.

Checking FTM Status:

1. Using the iDrive MENU button, choose:
2. "Vehicle Info"
3. "Vehicle status"
4. "Flat Tire Monitor"
5. The status will be displayed. See **Fig. 23**.



Fig. 23: iDrive Showing Tire Monitor Status
 Courtesy of BMW OF NORTH AMERICA, INC.

Direct System (Tire Pressure Monitor)

NOTE: Each time a tire inflation pressure has been corrected or a wheel or tire has been changed, reset the system.

TPMS Status indicator on the Control Display:

The color of the tires represents the status of the tires and the system. TPM takes into account that tire pressures change while the vehicle is being driven. The tire pressures do not need to be corrected unless the TPM instructs you to do so by means of color indicators.

- **Green:** The tire inflation pressure corresponds to the established target value. "TPM active" appears on the Control Display.

- **One Wheel Yellow:** There is a flat tire or substantial loss of tire pressure in the indicated tire. A message appears on the Control Display.
- **All Wheels Yellow:** There is a flat tire or substantial loss of tire pressure in several tires. A message appears on the Control Display.
- **Gray:** The system cannot detect a puncture. Possible reasons for this:
 - TPM is being reset.
 - Temporary malfunction caused by systems or devices using the same radio frequency.
 - Malfunction.

Initialization (Reset):

1. Using the iDrive MENU button, choose:
2. "Vehicle Info"
3. "Vehicle status"
4. "Reset"
5. Start the engine.
6. Start the initialization using "Reset". See **Fig. 22**.
7. Start to drive.
8. The tires are shown in gray and "Resetting TPM..." is displayed.

After driving a few minutes, the set inflation pressures in the tires are accepted as the target values to be monitored. The system reset is completed during your drive, and can be interrupted at any time. When driving resumes, the reset is continued automatically. On the Control Display, the tires are shown in green and "TPM active" is displayed again.

IMPORTANT: If a flat tire is detected while the system is resetting and determining the inflation pressures, all tires on the Control Display are displayed in yellow. The message "Low tire!" is shown.

System Reset Failure:

- **Message For Unsuccessful System Reset:** The warning lamp lights up yellow. A message will appear on the Control Display. Check the tire inflation pressure and reset the system.
- **Malfunction:** The small warning lamp flashes in yellow and then lights up continuously; the larger warning lamp comes on in yellow. On the Control Display, the tires are shown in gray and a message appears. No punctures can be detected. This type of message is shown in the following situations:
 - If there is a malfunction. Have the system checked.
 - If a wheel without TPM electronics has been mounted.
 - If TPM is temporarily malfunctioning due to other systems or devices using the same radio frequency.

Without iDrive

Indirect System (Flat Tire Monitor)

CAUTION: Do not initialize the system while snow chains are attached.

NOTE: Each time a tire inflation pressure has been corrected or a wheel or tire has been changed, reset the system.

Reset:

1. Start the engine.
2. Lightly push button 1 on the turn indicator. See **Fig. 24**.
3. Lever the turn indicator up or down repeatedly until the tire monitor symbol appears in the display, accompanied by the word "RESET". See **Fig. 24**.
4. Press button 2 to confirm your choice of the Flat Tire Monitor.
5. Press button 2 for approx. 5 seconds until the a check mark is shown next to the "RESET" display.
6. Drive the vehicle.

The initialization is completed during driving, which can be interrupted at any time. When driving resumes, the initialization is continued automatically.

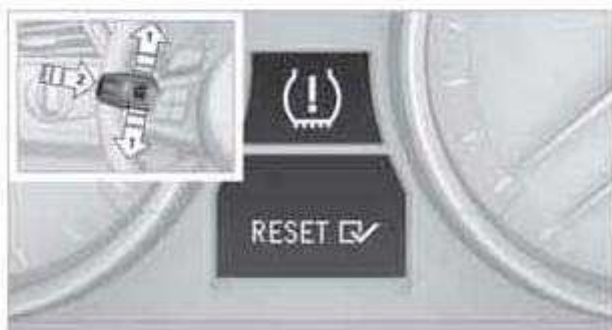
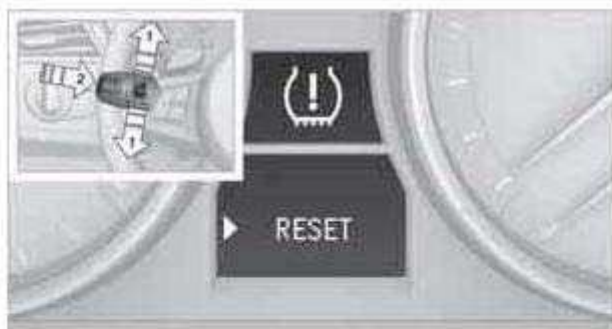


Fig. 24: Flat Tire Monitor Status Display
Courtesy of BMW OF NORTH AMERICA, INC.

Direct System (Tire Pressure Monitor)

CAUTION: Do not initialize the system while snow chains are attached.

NOTE: Each time a tire inflation pressure has been corrected or a wheel or tire has been changed, reset the system.

IMPORTANT: The system does not work correctly if it has not been reset; for example, a flat tire may be indicated even though the tire inflation pressures are correct. The system is inactive and cannot indicate a flat tire if a wheel without TPM electronics, such as a compact spare wheel, has been mounted, or if TPM is temporarily malfunctioning due to other systems or devices using the same radio frequency.

Reset:

1. Start the engine.
2. Lightly push button 1 on the turn indicator. See **Fig. 25**.
3. Lever the turn indicator up or down repeatedly until the tire monitor symbol appears in the display, accompanied by the word "RESET". See **Fig. 25**.
4. Press button 2 to confirm your choice of the Tire Pressure Monitor. In the display, "ACTIVE" will appear above "RESET". See **Fig. 25**.
5. Press button 2 for approx. 5 seconds. In the display, "RESETTING" will now appear above "RESET". See **Fig. 25**.
6. Drive the vehicle.

After driving a few minutes, the set inflation pressures in the tires are accepted as the target values to be monitored. The system reset is completed during your drive, and can be interrupted at any time. When driving resumes, the reset is continued automatically. The indicator lamp goes out after the system reset is completed.

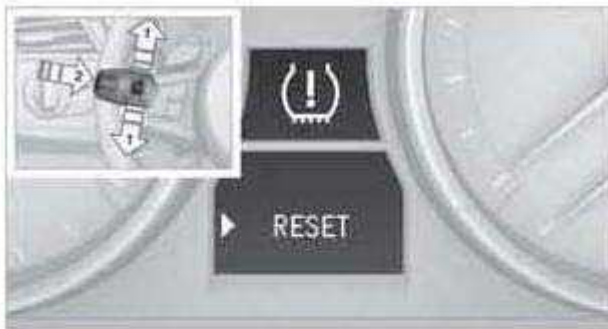


Fig. 25: Tire Pressure Monitor Status Display
Courtesy of BMW OF NORTH AMERICA, INC.

System Reset Failure:

- **Message For Unsuccessful System Reset:** The warning lamp lights up yellow. The system was not reset. Check the tire inflation pressure and reset the system.
- **Malfunction:** The small warning lamp flashes in yellow and then lights up continuously; the larger warning lamp comes on in yellow. On the Control Display, the tires are shown in gray and a message appears. No punctures can be detected. This type of message is shown in the following situations:
 - If there is a malfunction. Have the system checked.
 - If a wheel without TPM electronics has been mounted.
 - If TPM is temporarily malfunctioning due to other systems or devices using the same radio

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frequency.