### Repair Manual BMW 524 td - 535 i/US Supplement 2 12/84

Please exchange complete manual.

Order No. 01 57 9 699 538

Bayerische Motoren Werke AG

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WE REGRET THAT WE CANNOT SUPPLY UPDATES AND TECHNICAL REFINEMENTS TO RETAIL OR WHOLESALE CUSTOMERS WHO MIGHT PURCHASE THIS MANUAL."





## Repair Manual

BMW 524td - 535i-US 12/84

# 00 Maintenance and General Data

						_	1	3MW inspection I	BMW inspection II = inspection I + additional work	BMW Annual Check	BMW Engine oil service00 - 17	Additional Rec. Service00 - 18
Introduction	Lifting the vehicle with a car hoist	Lifting the vehicle with a garage jack	Towing			Pre-delivery inspection	BMW running-in inspection at 1.200 miles	0	0	0	0	0
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### INTRODUCTION

This repair manual microfilm is to assist you in performing the necessary maintenance and repair work expertly and correctly. It must be placed at the disposal of shop foremen and mechanics, and will complement the practical and theoretical training offered by our Service training schools.

Specifications and adjusting values are shown on the technical data and nominal value microfilms.

This repair manual microfilm is in reference to a standard production car free from accident damage and not subsequently modified in any way.

The group system has been adopted from the flat rate manual.

The job numbers appearing in the text is given for cross reference. They will often contain job sections which do not concern the specific job and only serve finding pertinent repair notes.

The individual page numbering, for example 32 - 6, means: 32 - main group

6 - page number (in ascending numerical order)

The special tools essential for correct repair work are summarized on the special tool microfilm, Order No. 01 99 9 699 422. Their use is illustrated in the descriptions of the various repair jobs.

The removal work is described for each repair job in this manual. If installation does not take place in the reverse order of work, an "installation" note is provided.

In addition to the improvements supplied to you regularly in the form of "Service Information", you are recommended to consult the parts microfilms for additional illustrated data.

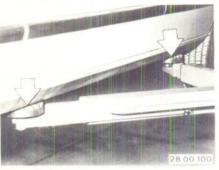
BAYERISCHE MOTOREN WERKE AG SERVICE DEPARTMENT

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### GENERAL INFORMATION

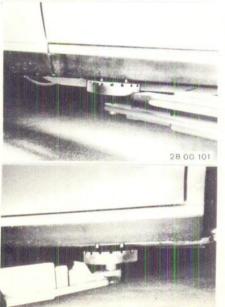
### LIFTING VEHICLE ON A LIFTING PLATFORM

Before driving a car on the platform, make sure that there is sufficient space (clearance) between the lifting platform and vehicle (if applicable spoiler, splash guard, etc.).



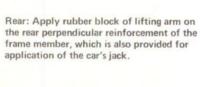
Lifting platforms must conform with local and national legislative measures concerning accident prevention and maintenance.

Arms of a lifting platform must always be applied only on the reinforced points of the frame members.



28 00 102

Front: Apply rubber block of lifting arm on the front perpendicular reinforcement of the frame member, which is also provided for application of the car's jack.



### LIFTING VEHICLE ON A WORKSHOP TROLLEY JACK

A workshop trolley jack may also only be applied for lifting the vehicle on the same take-up points described for the lifting platform.

A suitable liner (rubber, wood or plastic) must be used between the jack and vehicle to avoid damage to the undercoating, frame members or floor plate.

Front Take-up Point



Rear Take-up Point



### TOWING

Please conform with local and national legislative measures concerning the towing of vehicles as applicable.

Turn the ignition key to position "1" to unlock the steering wheel and be able to use the turn signals, horn and possibly windshield wipers.

Since the brake booster only works with the engine running, greater force will be required on the brake pedal of cars with a brake booster when the "engine is stopped".

The towing cable should be elastic to protect the towing and towed vehicles. Consequently only use plastic fiber cables or cables with elastic links.

Cars with Automatic Transmission:

Selector lever in "N".

Max. towing speed: 50 km/h (30 mph).

Max. towing distance: 40 to 50 kilometers (25 to 30 miles).

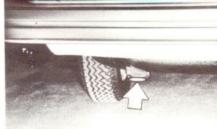
If the car has to be towed further than 50 km (30 miles) add an extra liter (2 pints) of ATF than the specified oil volume for automatics or remove the propeller shaft.

After repairing the car it is absolutely essential

After repairing the car it is absolutely essential to correct the ATF volume to the specified amount.



Towing eyes front



Towing eye rear



MW MAINTENANCE SYSTEM						
00 00 009 Pre-Delivery Inspection	Repair Manual	Technical Data	Nominal Values	Service Information	Owner's Manual	Important Remarks!
Check engine oil level (also check for lubricating oil dilution), replace oil and oil filter if necessary				Gr. 00	+	Only use approved oil
Check filler cap for tight fit						
Check coolant hoses for leaks and correct routing						Visual inspection
Check tightness of hose clamps						
Check correct coolant level and concentration				Gr. 00	+	Longterm anti- freeze and corro-
						sion inhibitor
Check battery acid level, correcting with distilled water if necessary Check tightness of battery terminals						
Check condition and tightness of all drive belts, tighten if necessary	Gr. 12/32/64					
Tighten nuts and bolts on intake and exhaust manifolds		Gr. 11/18		1		
Check active carbon filter, hoses and connections						Visual inspection
Check spark plugs; replacing, clean and/or adjust electrode gaps	Gr. 12	Gr. 12				
Check crankcase vent hose connections						Visual inspection
524 td: check injection timing	Gr. 13					
Check oxygen sensor	Gr. 11					
Check air cleaner and intake system						
Check fuel lines, tank, tank cap and filter for tight fit and leaks. Check fuel injection for operation of components, tight fit and leaks						Visual inspection
Check catalytic converter						Visual inspection

BMW MAINTENANCE SYSTEM						
00 00 009 Pre-Delivery Inspection	Repair Manual	Technical Data	Nominal Values	Service Information	Owner's Manual	Important Remarks!
Check nuts and bolts of steering box, coupling, tie rods, front axle, brake calipers and output shafts for tightness		Gr. 32/34				Tightening torque, check locks and cotter pins
Check power steering for leaks						
Check fluid level in tank for hydraulic brake and clutch systems		Gr. 34		Gr. 00		Visual inspection Use approved brake fluids only; tigh- tening torque
Check connections and lines of brake system for leaks, damage or wrong routing						
Check tire condition, tire size and type as well as tire inflation pressure (also spare wheel)		Gr. 36		Gr. 36	+	Visual inspection
Check wheel bolts for specified tightening torque		Gr. 36				
Check function of lights: parking lights, turn signals, tail light, stop lights, high and low beam headlights, side marker lights, backup lights, rear fog light, license plate lights, passenger compartment light, glove box light and trunk light					+	
Check aiming of headlights						
Check function of horns, headlight flasher and hazard lights					+	
Adjust digital clock					+	

BMW MAINTENANCE SYSTEM						
00 00 009 Pre-Delivery Inspection	Repair Manual	Technical Data	Nominal Values	Service Information	Owner's Manual	Important Remarks!
Check instrument and sign lights, and brightness control					+	
Check indicator and warning lamps, clock, buzzer and check control: alternator, oil pressure, coolant temperature, turn signal indicator, oxygen sensor, seat belts lamps, ignition key warning buzzer, high beam indicator						
524 td: check indicator lights of glow plug system					+	
Check function of windshield wipe/wash system and aiming of spray jets, remove protective sleeves on wiper blades					+	_
Fill supply tank for windshield washing, check antifreeze protection				Gr. 00		
Check rear window defogger						
Check function of cigar lighter						
Check heating and ventilating including air distribution and blower	Gr. 64					
Check function of headlight cleaners and central locking system					+	
Radio: check antenna trimming, tune in station, check shielding with engine running while switching all electric equipment on and off	Gr. 65					
Check function of other special equipment, e.g. electric windows front and rear, sun roof in all positions, engine compartment and trunk lights, fog lights and aiming, radio antenna and speaker balance control. Check other equipment installed by dealer						
Check outside mirrors						

BMW MAINTENANCE SYSTEM						
00 00 009 Pre-Delivery Inspection	Repair Manual	Technical Data	Nominal Values	Service Information	Owner's Manual	Important Remarks!
Check data plate, chassis and engine numbers						
Compare ordered car equipment against delivered car equipment						
nstall wheel covers, if applicable ornamental rings and tailpipe extension						
Place car tools in toolbox, secure jack and wheel bolt wrench						
Remove label with key number on tank cap						
Mount label for annual brake fluid change						
Place owner's manual, list of BMW service stations, spare keys and key case in glove box.						
Battery and accessory warranty cards						
Radio operating manual (if equipped)						
Factory Invoice (Monroney Label)						

MW MAINTENANCE SYSTEM						
00 00 009 Pre-Delivery Inspection	Repair Manual	Technical Data	Nominal Values	Service Information	Owner's Manual	Important Remarks!
est drive: check acceleration, coasting, brake system (before and luring road test)						Caution: On systems with Politex brake linings, increased braking effect
heck function of Motronic						
heck car for rattling and squeaking noise						
check handling up to 55 mph (wheel balancing)						
Check function of engine, clutch, transmission, rear axle, steering, teering wheel in straight ahead position, cars with rear disc brakes: preaking-in parking brake	Gr. 34					
check function of cruise control (if equipped)						
leater and fresh air ventilation						
Check function of all instruments						

MW MAINTENANCE SYSTEM			General Info	rmation		
0 00 009 Pre-Delivery Inspection	Repair Manual	Technical Data	Nominal Values	Service Information	Owner's Manual	Important Remarks!
fter Test Drive:						
eak test on: engine, transmission, steering, final drive, dust covers n output shafts, fuel system, clutch and brake hydraulic systems nd Cooling system						Visual inspection
						Visual inspection
ar cleaned and polished o damage on underside ar without scratches or damage						Visual inspection
emove seat and protective covers						
he service indicator (SI) must be reset after completion of the pre- elivery inspection as follows. witch off all electrical equipment. urn on ignition. o not run engine. lug SI-R * in diagnosis socket. ush in and hold recessed, red INSPECTION button - green lamp function control) comes on. ed lamp also comes on after approx 3 sec. and goes out after approx. 2 sec. elease inspection button - green lamp goes out. hecking Service Indicator (SI): Il five green diode lights must be on. ellow and possibly red diodes as well as INSPECTION sign should to out.			62 1 100			
SI-R = Service indicator resetter, Order No. 62 1 100.						

BMW MAINTENANCE SYSTEM			General Info	ormation		
00 00 210 1200 Mile Inspection	Repair Manual	Technical Data	Nominal Values	Service Information	Owner's Manual	Important Remarks!
Replace engine oil and oil filter at operating temperature	Gr. 11			Gr. 00	+	Use approved oil only
Check and adjust valve clearance	Gr. 11	Gr. 11				,
Check coolant hoses and connections as well as heater hoses for eaks; check coolant level and concentration, correcting if necessary				Gr. 00	+	Longterm anti- freeze and corro- sion inhibitor
Replace oil in manual transmission at operating temperature not applicable to automatic transmission)	Gr. 23			Gr. 00/23	+	Use approved oil only
Check ATF level in automatic transmission correcting if nec.	Gr. 24			Gr. 00/24	+	Use approved ATF
Check exhaust system and catalytic converter for correct installation, routing, damage or leaks						Visual inspection
Fighten nuts and bolts of steering, brake calipers, output shafts and wheel bolts		Gr. 32/33/34 36				Tightening torque
Check power steering for leaks and oil level, correcting if necessary	Gr. 32					
	17					

BMW MAINTENANCE SYSTEM			General Info	ormation		
00 00 210 1200 Mile Inspection	Repair Manual	Technical Data	Nominal Values	Service Information	Owner's Manual	Important Remarks!
Seplace final drive oil at operating temperature		Gr. 33		Gr. 00		Use approved oil only
heck fluid level in tank for brake and clutch hydraulic systems	v			Gr. 00		Use approved brake fluid only
heck connections and lines of brake system for leaks and damage						
Check tire inflation pressure, correcting if necessary (including pare wheel)				Gr. 36		
Fill supply tank for windshield washing system				Gr. 00	24	

BMW MAINTENANCE SYSTEM		General Information						
00 00 210 1200 Mile Inspection	Repair Manual	Technical Data	Nominal Values	Service Information	Owner's Manual	Important Remarks!		
Check function of following equipment:								
Lights: headlights, parking lights, backup lights, license plate lights, passenger compartment light, glove box light, engine compartment light and trunk light.			5					
Aiming of headlights	Gr. 63							
Indicators: turn signals, hazard lights, stop lights, headlight flasher and headlight dimmer switch								
Inspect check control					+			
524 td: check indicator lights of glow plug system					+			
Check instrument lights, indicator lamps, windshield wipe/wash system and aiming of spray jets, heater and air conditioner blowers, rear window defogger					+			
Final inspection and test drive with check of fuel injection system and operational saferty of: brakes, steering, clutch or automatic transmission and mirrors					+	Caution: On sys- tems with Poli- tex brake linings, increased braking effect		
Break in parking brake (vehicles with rear disc brake only)	Gr. 34				9			

MW MAINTENANCE SYSTEM			General Info	rmation		
0 00 220 BMW Inspection I	Repair Manual	Technical Data	Nominal Values	Service Information	Owner's Manual	Important Remarks!
eplace engine oil and oil filter at aperating temperature	Gr. 11			Gr. 00	+	Use approved oil only
heck and adjust valve clearance	Gr. 11	Gr. 11				
ubricate joints and bearings of accelerator linkage, rotary shaft and prottle linkage with oil; lubricate bearings of throttle lever and gate ith grease						
neck fuel tank, tank cap, lines and connections for leaks						Visual inspection
neck cooling system and all connections as well as heater hoses for aks. Check coolant level and concentration, correcting if necessary.				Gr. 00	+	
portant! polant must be drained completely and replaced every 2 years.	8					
neck condition, routing, suspension and leaks on exhaust assembly	Gr. 18					
eplace automatic transmission fluid at operating temperature nly in Inspection I)	Gr. 24	Gr. 24		Gr. 00		Use approved ATF only
eplace oil filter screen in automatic transmission nly in Inspection I)	Gr. 24	Gr. 24				
		_				

BMW MAINTENANCE SYSTEM						
00 00 220 BMW Inspection I	Repair Manual	Technical Data	Nominal Values	Service Information	Owner's Manual	Important Remarks!
Check manual transmission oil level, correcting if necessary		Gr. 23		Gr. 00		Use approved oil only
Check power steering for leaks and oil level, correcting if necessary	Gr. 32			Gr. 00		
Check condition of tie rods, front axle joints, drop arms and coupling	Gr. 31/34/36					Tightening torque/ visual inspection of cotter pins
Check mechanical steering play, adjusting if necessary	Gr. 32					
Check final drive oil level, correcting if necessary	-			Gr. 00		Use approved oil only
Remove and install front and rear disc brake pads, check total thickness, check surface condition of brake discs.  If necessary, replace (against extra charge).	Gr. 34	Gr. 34				
Lubricate aluminum wheel rim centers with grease.				Gr. 36		
Check fluid level in tank for hydraulic brake and clutch systems, correcting if necessary Important: replace brake fluid annually at latest.	Gr. 34			Gr. 00		Use approved brake fluids only
Check brake calipers and dust boots for leaks	Gr. 34			Gr. 00		visual inspection

BMW MAINTENANCE SYSTEM 00 00 220 BMW Inspection I						
	Repair Manual	Technical Data	Nominal Values	Service Information	Owner's Manual	Important Remarks!
Check brake lines and connections for leaks damage or distortion. Check movement of parking brake cables. Adjust parking brake.	Gr. 34			9		
heck tire inflation pressure, correcting if necessary (including pare wheel). Check trunk for gasoline odor.				Gr. 36	+	
Check condition of tires. If worn unevenly and customer orders: check and adjust wheel alignment (against extra charge).	Gr. 32					
ighten bolts and nuts of door locks and strikers. Lubricate door hinges and hood hinges with oil; ubricate door locks with grease and check function.						
check battery acid level, adding distilled water if necessary						
check function of air conditioner and Freon charge	Gr. 64					
ighten mounting bolts of A/C compressor		Gr. 64				Tightening torque
24 td: check indicator lights of glow plug system					+	
24 td: with the 4th Inspection I replace toothed belt	Gr. 11					
24 td: with the 4th Inspection I replace glow plugs (necessary for California version only)	Gr. 12					
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			-			

BMW MAINTENANCE SYSTEM						
00 00 220 BMW Inspection I	Repair Manual	Technical Data	Nominal Values	Service Information	Owner's Manual	Important Remarks!
Check function of following equipment: Lights: headlights, parking lights, backup lights, license plate lights, lassenger compartment light, glove box light, engine compartment light and trunk light. Indicators: turn signals, hazard lights, stop lights, horn, headlight lasher and dimmer switch. Check aiming of headlights, correcting if necessary.	Gr. 63					
est check control.						
ill supply tank for windshield washing system check antifreeze protection				Gr. 00	+	
Check function of winshield wipe/wash system and aiming of spray jets.						
Check instruments lights, control lights, heater and air conditioner slower and rear window defogger.						
Check condition and function of seat belts.						
Final inspection and test drive with check of operational safety: orakes, steering, clutch or automatic transmission and mirrors.						Caution: On sys- tems with Poli- tex brake linings,
•						increased braking effect
Break in parking brake.	Gr. 34					
Important! The Service Indicator (SI) must be reset after completion of inspection I as follows. Switch off all electrical equipment. Turn on ignition. Do not run engine.						
Plug SI-R * in diagnosis socket.  Push in and hold recessed, red INSPECTION button - green lamp function control) comes on.  Red lamp also comes on after approx 3 sec. and goes out after approx.  12 sec.  Release inspection button - green lamp goes out.						
Checking Service Indicator (SI):		6	2 1 100			
Il five green diode lights must be on. 'ellow and possibly red diodes as well as INSPECTION sign should go out.						
SI-R = Service indicator resetter, Order No. 62 1 100.		,				
		E	20 00 006			

BMW MAINTENANCE SYSTEM						
00 00 230 BMW Inspection II = Inspection I + Additional Jobs	Repair Manual	Technical Data	Nominal Values	Service Information	Owner's Manual	Important Remarks!
Check all drive belts, adjust tension if necessary	Gr. 12/32/64					
Replace spark plugs		Gr. 12			+	
Air cleaner: replace air filter cartridge Replace filter cartridge more frequently when car is operated in dusty regions.	Gr. 13					
Replace fuel filter Shorten intervals when contaminated fuel was used	Gr. 16				+	h
Check clutch drive plate for wear	Gr. 21					
Replace manual transmission oil at operating temperature		Gr. 23		Gr. 00		Use approved oil only
Check automatic transmission oil level correcting if necessary (only in inspection II)		Gr. 24		Gr. 00		Use approved oil only
Check front wheel bearing play	Gr. 31					
524 td: check injection timing	Gr. 13					
524 td: check idle rpm						
524 td: check and adjust toothed belt	Gr. 11					
524 td: with the 2nd Inspection II replace glow plugs (on 49 states model only, but recommended for California version)	Gr. 12					
			40			

BMW MAINTENANCE SYSTEM						
00 00 230 BMW Inspection II = Inspection I + Additional Jobs	Repair Manual	Technical Data	Nominal Values	Service Information	Owner's Manual	Important Remarks!
Replace final drive oil at operating temperature		Gr. 33		Gr. 00		Use approved oil only
Check condition of dust covers on output shafts						25/11/5908
Car with rear brake discs: Check parking brake liner thickness	Gr. 34	Gr. 34				
f necessary: Replace parking brake liners against extra charge	Gr. 34					
In the Service Indicator (SI) must be reset after completion of inspection II as follows.  Switch off all electrical equipment.  Furn on ignition.  Do not run engine.  Plug SI-R * in diagnosis socket.  Push in and hold recessed, red INSPECTION button - green lamp function control) comes on.  Red lamp also comes on after approx. 3 sec. and goes out after approx.  I2 sec.  Release inspection button - green lamp goes out.  Checking Service Indicator (SI):  All five green diode lights must be on.  Yellow and possibly red diodes as well as INSPECTION sign should go out.			20 00 005			

MW MAINTENANCE SYSTEM						
0 00 240 BMW Annual Check (after every 11 to 13 months)	Repair Manual	Technical Data	Nominal Values	Service Information	Owner's Manual	Important Remarks!
nportant: renew brake fluid annually	Gr. 34			Gr. 00		Use approved brake fluids only
heck aiming of headlights, correcting if necessary	Gr. 63					
nportant: coolant must be drained completely and renewed every years, Check antifreeze protection (against extra charge)				Gr. 00		Use approved anti- freeze additives only
spect body according to the terms of the BMW 6 year limited arranty-rust perforation					+	Register check of re- pair in Owners Handbock
eminder only! eplace oxygen sensor every 50 000 Miles or 80 000 km	Gr. 11					3-000 (SSE 07) (CSSE) 1
28 e: replace oxygen sensor every 30 000 Miles or 48 000 km, set oxygen sensor indicator light	Gr. 11					8
						11

BMW MAINTENANCE SYSTEM						
00 00 249 BMW Engine Oil Service	Repair Manual	Technical Data	Nominal Values	Service Information	Owner's Manual	Important Remarks!
Engine oil and oil filter — replace at operating temperature				Gr. 00		Only use approved oil
Important!  The Service Indicator (SI) must be reset after completion of the oil service as follows.  Switch off all electrical equipment.  Turn on ignition.  Do not run engine  Plug SI-R * in diagnosis socket.  Push in and hold yellow OIL SERVICE ** button - green lamp (function control) comes on.  Yellow lamp also comes on after approx. 10 sec. and goes out after approx. 3 sec.  Release oil service button - green lamp goes out.  Checking Service Indicator (SI) after 10 Seconds:  At least one green diode light (however more than before) should come on.  Yellow (possibly red) diode and OIL SERVICE sign must go out.  * SI-R = Service indicator resetter, Order No. 62 1 100.  ** Caution!  Resetting with the wrong button cannot be corrected.  Service Intervals would be mixed up - also refer to BMW Technik information of Group 62.		63	21100			oil

BMW MAINTENANCE SYSTEM						
00 00 259 Additional Recommended Service (To be invoiced seperately)	Repair Manual	Technical Data	Nominal Values	Service Information	Owner's Manual	Important Remarks!
Steering Test: Steering gear, linkage, coupling, connetions, leaks, oil volume and condition for power steering	Gr. 32			Gr. 00		Use only approved oil
Brake Test: Brake pads (remove and install wheels), brake discs, lines, hoses, connetions, brake fluid level	Gr. 34					
mportant! Replace brake fluid at least annually.				Gr. 00		Use only approved brake fluids
rire and Wheel Rim Test: Condition, tire inflation pressure and specified size including spare wheel)		Gr. 36		Gr. 36		
ight Test: leadlights, additional headlights (also aiming), parking lights, tail ights backup liegts, license plate lights, instrument and sign lights, ndicator and warning lamps	Gr. 63					
ignal Test: orns, headlight flasher, turn signals, hazard lights, stop lights and ear fog light						
lipers and Washer/Cleaners Test: liper blades, waher (windshield and, if applicable, headlights), tank fluid level/antifreeze), spray jet aiming (windshield and, if applicable, eadlights). If equipped, intensive cleanser level.				Gr. 00	+	
eat Belt Test: condition and function	Gr. 72					
lean cassette tape head capstan and pinch rollers every 50 - 100 hours f operation or earlier if quality of sound is impaired						
inal inspection and test drive with check of operational safety: rakes, steering, clutch or automatic transmission and mirrors						Caution: On sys- tems with Poli- tex brake linings, increased braking effect
emarks: epairs and adjustments against extra charge.						

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