



# Technical Service Information

## BMW 530i/540i/740iA/740iLA NO 4th,5th GEAR AND OR WRONG GEAR STARTS

**COMPLAINT:** After a highway drive the vehicle will no longer shift into Fourth or Fifth gear and or a complaint of wrong gear starts.

**CAUSE:** AGS versions 7.32 and 9.22 have a curve recognition feature which inhibits up shifts while cornering. This up shift prevention feature is activated by the observance of wheel speed differences which occurs when cornering. The inside wheels on the turn spin less than the outside wheels. The problem of a highway run causing this feature to be erroneously activated could be:

1. Tires are inflated unequally
2. Tires are different in size
3. Tires are the same size but are a different brand or make
4. Tires are worn unequally

**CORRECTION:** Inspect the tires

1. Check and correct for proper inflation
2. Check and correct for proper size and that they are the same on all 4 wheels
3. Check and correct for the proper brand or make (See Figures 1 and 2). **Tip: If the problem is new, look for new tires.**
4. Check and correct for unequally worn tires, i.e. front end misalignment, deflated or overinflated tire wear, etc.

NOTE: ABS problems can also add to this problem.

### 530i & 540i Tire Application

<u>Summer Tires</u>	<u>Wheels</u>	<u>Brands</u>
225/60 R 15 95 V	7 J x 15 H2 Light Alloy ET=20mm	Continental CV 51, Dunlop D40, Dunlop SP Sport 2000, Pirelli P600, Uniroyal Rallye 340/60
240/45 ZR 415	195 TR 415 Light Alloy ET=19mm	Michelin TRX
235/45 ZR 17	8 J x 17 Light Alloy ET=20mm	Michelin Pilot SX MXX3, Pirelli P700Z

Figure 1



## Technical Service Information

### BMW 530i/540i/740iA/740iLA NO 4th GEAR

#### *530i & 540i Tire Application*

##### Winter Tires

205/65 R 15 94 QM+S  
225/60 R 15 95 QM+S

##### Wheels

7 J X 15 H2  
Steel ET=20mm

##### Brands

Continental Contact TS 750  
Dunlop SP Winter, SP Winter Sports  
Michelin XM+S100 or 300  
Pirelli Winter 190 or 210 Performance  
Uniroyal MS Plus 3

225/60 R 15 95 QM+S  
225/60 R 15 94 QM+S

7 J X 15 H2 Light Alloy  
Steel ET=20mm

Continental Contact TS 750  
Dunlop SP Winter, SP Winter Sports  
Michelin XM+S300  
Pirelli Winter 210 Performance  
Uniroyal MS Plus 3

240/45 R 415 94 HM+S

195 TR 415 Light Alloy  
ET=19mm

Michelin TRX M+S 300

#### *740i & 740il Tire Application*

##### Summer Tires

225/60 ZR 15

##### Wheels

7 J x 15 H2  
Light Alloy ET=22mm

##### Brands

Dunlop SP Sport D40, Pirelli P600,  
Uniroyal Rallye 340/60

##### Winter Tires

205/60 R 15 95 HM+S

##### Wheels

7 J X 15 H2  
Light Alloy ET=20mm

##### Brands

Continental Contact TS 750  
Michelin XM+S300 or 330  
Pirelli Winter 210 Performance  
Uniroyal MS Plus 3, Dunlop SP Winter  
Dunlop SP Winter Sport

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Figure 2