

TROUBLE TRACER - SIMPLE STEPS TO PUT A STOP TO BRAKE NOISE

I. WITHOUT DISASSEMBLY

NO RAMP NEEDED



ANY MILEAGE OF PADS OPERATION



FULFIL THE WHOLE LIST

I

- 1 ASK CUSTOMER TO DESCRIBE THE NOISE IN AS MUCH DETAIL AS POSSIBLE
- 2 RETIGHTEN THE WHEELS TO THE SPECIFIED TORQUE AND FOLLOWING THE RECOMMENDED SEQUENCE
- 3 CHECK THE TYRE PRESSURES ARE CORRECT
- 4 CHECK THE CONDITION OF THE WHEELS AND TYRES
- 5 ENSURE THE WHEELS AND TYRES ARE COMPATIBLE WITH THE CAR
- 6 CHECK FOR STICK-ON/CLIP-ON BALANCE WEIGHTS
- 7 CHECK THE CONDITION OF THE REAR BRAKE DISCS
- 8 TEST DRIVE

IF THE NOISE IS NOT ELIMINATED, GO TO SECTION II

NEVER USE AN IMPACT WRENCH TO TIGHTEN THE WHEEL BOLTS AND NUTS.



DON'T LUBRICATE WHEEL BOLTS AND STUDS.



ALWAYS OFFER TO CUSTOMER BEDDING-IN MEMO.



II. BRAKES AND BEDDING-IN

RAMP NEEDED



IF BEDDING-IN IS NOT COMPLETED MILEAGE UP TO 500 KM

< 500 KM

FULFIL THE WHOLE LIST

II

- 9 ASK THE CUSTOMER IF THEY CAN REMEMBER ANYTHING ELSE ABOUT THE ISSUE
 - WHEN DOES THE SOUND OCCUR?
 - YES TELL THE CUSTOMER WHAT NEEDS TO BE DONE
 - NO NEXT STEP
- 10 PAD AREA ISN'T FULLY BEDDED-IN
 - 5% 100%
 - YES REPLACE
 - NO NEXT STEP
- 11 SIGNS OF OVERHEATING
 - YES REPLACE
 - NO NEXT STEP
- 12 ARE THERE ANY EXTERNAL CONTAMINANTS?
 - YES CLEAN
 - NO REPLACE
- 13 DIRECTIONAL PADS
 - YES ENSURE THEY ARE CORRECTLY INSTALLED
- 14 NON-DIRECTIONAL BRAKE PADS
 - SWAP LEFT AND RIGHT SIDE
- 15 CALIPER SLIDE PIN BOLTS
 - TIGHTEN TO THE MANUFACTURER'S SPECIFICATION
- 16 WHEELS
 - TIGHTEN TO THE MANUFACTURER'S SPECIFICATION
- 17 TEST DRIVE
 - LET THE CUSTOMER MAKE A TEST DRIVE

IF THE NOISE IS NOT ELIMINATED, GO TO SECTION III

III. CALIPER, PADS, ROTOR

RAMP NEEDED



IF BEDDING-IN IS COMPLETED START FROM POINT 9 TILL 37

> 500 KM

FULFIL THE WHOLE LIST

III

- 19 ASK THE CUSTOMER IF THERE WAS ANYTHING THEY FORGOT TO MENTION?
 - HAVE THERE BEEN ANY REPAIRS, MALFUNCTIONS OR INCIDENTS?
- 20 BRAKE PAD MOUNTING AND DISC
 - CLEAN / BRUSH
- 21 DIRECTIONAL PADS
 - ENSURE THEY ARE CORRECTLY INSTALLED
- 22 CALIPER PINS
 - CLEAN AND GREASE
- 23 DISC CONDITION, MASS COMPARISON WITH OE DISC SPECIFICATION
 - MEASURE, GRIND OR REPLACE
- 24 SPRINGS, PLATES, BOLTS
 - CHECK AND REPLACE
- 25 WHEEL HUB
 - CHECK AND CLEAN
- 26 SAND, RUST OR SALT ON THE DISC
 - CHECK, BRUSH, GRIND OR REPLACE
- 27 OIL OR ANOTHER LIQUID CONTAMINANTS ON THE PAD
 - REPLACE
- 28 CHEMICALS FOR CLEANING WHEELS AND TYRES
 - REMOVE AND WASH DISC WITH HOT WATER, SOAP AND WIRE BRUSH
- 29 USE BRAKE DISKS AND BRAKE PADS OF THE SAME BRAND COMPATIBILITY
 - JURID
- 30 INACTIVE / INEFFECTIVE REAR BRAKES
 - REPAIR
 - REPLACE
- 31 PAD SURFACE CRYSTALLIZATION
 - PEEL OFF THE TOP LAYER WITH SANDPAPER ON A FLAT SURFACE OR REPLACE
- 32 CALIPER GEOMETRY
 - CHECK AND IF DAMAGED REPLACE CALIPER
- 33 NON-DIRECTIONAL PADS
 - SWAP LEFT AND RIGHT SIDE
- 34 ANTISQUEAL SHIM
 - CHECK INTEGRITY AND FIT
- 35 REMOVABLE ANTISQUEAL SHIM
 - CHECK AND IF NOT PRESENT INSTALL
- 36 WHEN RE-INSTALLING THE WHEELS
 - TIGHTEN WITH THE CORRECT TORQUE AND FOLLOWING THE RECOMMENDED SEQUENCE
- 37 TEST DRIVE
 - SIMULATE THE CONDITIONS WHEN THE NOISE OCCURS

IF THE NOISE IS NOT ELIMINATED, GO TO SECTION IV

IV. CHASSIS

RAMP NEEDED



IF NOISE PERSISTS AFTER GOING THROUGH ALL PREVIOUS STEPS CONTINUE WITH POINTS 38 TILL 44

> 500 KM

FULFIL THE WHOLE LIST

IV

- 38 BALL JOINTS, BUSHINGS AND SILENT BLOCKS
 - POLYURETHANE? DIAGNOSE, RE-TIGHTEN OR REPLACE
- 39 SHOCK ABSORBERS AND SPRINGS
 - DIAGNOSE AND REPLACE IF REQUIRED
- 40 WHEEL BEARINGS
 - WORN BEARING = BRAKE SQUEAL = REPLACE
- 41 CHECK BODY RIGIDITY
 - BRAKE NOISE IS LIKELY ON OLDER VEHICLES OR THOSE WITH COMPROMISED BODY STRUCTURES
- 42 IMBALANCE BETWEEN AXLES
 - RESTORE BALANCE
- 43 COUNTERFEIT PARTS INSTALLED
 - CHECK THAT THE COMPONENTS ARE GENUINE
- 44 REFURBISHED WHEEL RIM?
 - CAN CAUSE BRAKE NOISE

	INSPECTION
	OPERATION
	BRAKE ROTOR / DISC
	BRAKE PADS
	WHEEL
	RAMP
	TEST DRIVE

When fitting new brake pads, best practice is to also check the condition and thickness of the brake discs and replace these at the same time if required. Regular inspection of the brake system is recommended to ensure continued safe braking.



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