

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

I. WITHOUT DISASSEMBLY

		NO RAMP NEEDED	() (10)
		ANY MILEAGE OF PADS OPERATION	∞
- rocric ine whole cis	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	Nm Nm
	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	O A
	7	CHECK THE CONDITION OF THE REAR BRAKE DISCS	
	8	TEST DRIVE	€/ \

IF THE NOISE IS NOT ELIMINATED, GO TO SECTION II

drivparts.com/en-gb/garagegurus.html

II. BRAKES AND BEDDING-IN

RAMP NEEDED

FULFIL THE WHOLE

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

< 500 KM

ASK THE CUSTOMER IF THEY CAN REMEMBER ANYTHING ELSE ABOUT THE ISSUE

SIGNS OF OVERHEATING

ARE THERE

ANY EXTERNAL

CONTAMINANTS?

DIRECTIONAL PADS

NON-DIRECTIONAL

BRAKE PADS

CALIPER SLIDE

PIN BOLTS

WHEELS

TEST DRIVE

?

WHEN DOES THE SOUND OCCUR?

ΡΔΠ ΔRFΔ ISN'T FULLY BEDDED-IN

TELL THE YES CUSTOMER WHAT NEEDS TO BE DONE

NO NEXT STEP

YES REPLACE

NO NEXT STEP

YES CLEAN

NO REPLACE

ENSURE THEY YES ARE CORRECTLY INSTALLED

SWAP LEFT AND RIGHT

MANUFACTURER'S SPECIFICATION

TIGHTEN TO THE MANUFACTURER'S **SPECIFICATION**

LET THE CUSTOMER MAKE A TEST DRIVE

IF THE NOISE IS NOT ELIMINATED, GO TO SECTION III











III. CALIPER, PADS, ROTOR

RAMP NEEDED

- FULFIL THE WHOLE LIS

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

> 500 KM

ASK THE CUSTOMER IF THERE WAS ANYTHING THEY FORGOT TO MENTION? BRAKE PAD MOUNTING

HAVE THERE BEEN ANY REPAIRS, MALFUNCTIONS OR INCIDENTS?

AND DISC

CLEAN / BRUSH

DIRECTIONAL PADS

ENSURE THEY ARE CORRECTLY INSTALLED

CALIPER PINS

CLEAN AND GREASE MEASURE, GRIND OR

DISC CONDITION, MASS COMPARISON WITH OF DISC SPECIFICATION SPRINGS, PLATES,

REPLACE CHECK AND REPLACE

BOLTS WHEEL HUB

CHECK AND CLEAN

SAND, RUST OR SALT ON THE DISC

CHECK, BRUSH, GRIND OR REPLACE

OIL OR ANOTHER LIQUID CONTAMINANTS ON THE PAD

REPLACE

CHEMICALS FOR CLEANING WHEELS AND TYRES



REMOVE AND WASH DISC WITH HOT WATER, SOAP AND WIRE BRUSH

USE BRAKE DISKS AND BRAKE PADS OF THE SAME BRAND COMPATIBILITY

S-O-JURID

INACTIVE / INEFFECTIVE REAR BRAKES

REPLACE

PAD SURFACE CRYSTALLIZATION PEEL OFF THE TOP LAYER WITH SANDPAPER ON A FLAT SURFACE OR REPLACE

CALIPER GEOMETRY NON-DIRECTIONAL

CHECK AND IF DAMAGED

REPLACE CALIPER SWAP LEFT AND RIGHT SIDE

ANTISQUEAL SHIM

PADS

CHECK INTEGRITY

REMOVABLE

AND FIT CHECK AND IF NOT

ANTISQUEAL SHIM

PRESENT INSTALL TIGHTEN WITH THE CORRECT TORQUE

WHEN RE-INSTALLING THE WHEELS

AND FOLLOWING THE RECOMMENDED SEQUENCE SIMULATE THE CONDITIONS

TEST DRIVE

WHEN THE NOISE OCCURS

IF THE NOISE IS NOT ELIMINATED, GO TO SECTION IV



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ONLINE



ON-CALL

26 Reasons for Brake Noise

- 1. No or incomplete cleaning of the protective anti-oxidation coating of the disc (paraffin)
- 2. No decontamination of the disc, in the case of re-use (lack of cleaning of the friction surfaces)
- 3. The brake calipers do not slide correctly along sliding axis (grease or repair)
- 4. Poor condition of the discs (scoring, grooves, deformations, fissures)
- 5. Use of the disc below the minimum thickness MIN TH
- 6. Crystallisation of material (poor use, problems with a component of the system)
- 7. Poor condition of: springs, fastening screws or plates
- 8. Inadequate period of mechanical or thermal adaptation (excess or flaw)
- 9. Contamination from excess abrasive materials (rust, silicates, saltpetre)
- 10. Contamination from lubricants (oil, brake fluid, etc.)
- 11. Incompatibility of qualities between discs and pads (hardness, metallographic stabilisation)
- 12. Type and size of rims (aluminium, steel, inches)
- 13. Contamination of pads due to transfer of metallic elements
- 14. Incorrect or incomplete assembly or repair process
- 15. Part unsuitable for the application
- 16. Geometric deformation of calipers, sleeves, rims, etc.
- 17. Condition of bearings
- 18. Structural torsion of chassis (vehicle usage, care, age, maintenance)
- 19. Condition of chassis components (ball joints, wishbones, tie rods)
- 20. Condition of the suspension system (dampers, springs, rods)
- 21. Condition of tyres and type (size, wear and pressures)
- 22. Condition of silentblocs
- 23. Incorrect tightening torque (caliper, disc, dampers, rims)
- 24. Condition and performance of rear axle brakes
- 25. Imbalance between axles (braking or suspension)
- 26. Use of a wheel cleaner (possible contact with washed dirt on the brake disc operating surface)

IV. CHASSIS

RAMP NEEDED

WHEEL BEARINGS

CHECK BODY RIGIDITY

IMBALANCE BETWEEN

COUNTERFEIT PARTS

REFURBISHED WHEEL

AXLES

INSTALLED



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

> 500 KM

← FULFIL THE WHOLE LIST

IV

BALL JOINTS, **BUSHINGS AND** SILENT BLOCKS SHOCK ABSORBERS AND SPRINGS

POLYURETHANE? DIAGNOSE, RE-TIGHTEN OR REPLACE

DIAGNOSE AND REPLACE IF REQUIRED WORN BEARING = BRAKE

SQUEAL = REPLACE

BRAKE NOISE IS LIKELY ON OLDER VEHICLES OR THOSE WITH COMPROMISED BODY STRUCTURES

RESTORE BALANCE CHECK THAT THE

COMPONENTS ARE GENUINE

CAN CAUSE BRAKE NOISE



0 INSPECTION **OPERATION BRAKE ROTOR / DISC BRAKE PADS** WHEEL RAMP

TEST DRIVE

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.

ensure continued safe braking.



