

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

## I. WITHOUT DISASSEMBLY

NO RAMP NEEDED



ANY MILEAGE OF PADS OPERATION



- I** ↓ FULFIL THE WHOLE LIST
- ASK CUSTOMER TO DESCRIBE THE NOISE IN AS MUCH DETAIL AS POSSIBLE
  - RETIGHTEN THE WHEELS TO THE SPECIFIED TORQUE AND FOLLOWING THE RECOMMENDED SEQUENCE
  - CHECK THE TYRE PRESSURES ARE CORRECT
  - CHECK THE CONDITION OF THE WHEELS AND TYRES
  - ENSURE THE WHEELS AND TYRES ARE COMPATIBLE WITH THE CAR
  - CHECK FOR STICK-ON/CLIP-ON BALANCE WEIGHTS
  - CHECK THE CONDITION OF THE REAR BRAKE DISCS
  - 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

- II** ↓ FULFIL THE WHOLE LIST
- ASK THE CUSTOMER IF THEY CAN REMEMBER ANYTHING ELSE ABOUT THE ISSUE
  - PAD AREA ISN'T FULLY BEDDED-IN
  - SIGNS OF OVERHEATING
  - ARE THERE ANY EXTERNAL CONTAMINANTS?
  - DIRECTIONAL PADS
  - NON-DIRECTIONAL BRAKE PADS
  - CALIPER SLIDE PIN BOLTS
  - WHEELS
  - 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

- III** ↓ FULFIL THE WHOLE LIST
- ASK THE CUSTOMER IF THERE WAS ANYTHING THEY FORGOT TO MENTION?
  - BRAKE PAD MOUNTING AND DISC
  - DIRECTIONAL PADS
  - CALIPER PINS
  - DISC CONDITION, MASS COMPARISON WITH OE DISC SPECIFICATION
  - SPRINGS, PLATES, BOLTS
  - WHEEL HUB
  - SAND, RUST OR SALT ON THE DISC
  - OIL OR ANOTHER LIQUID CONTAMINANTS ON THE PAD
  - CHEMICALS FOR CLEANING WHEELS AND TYRES
  - USE BRAKE DISKS AND BRAKE PADS OF THE SAME BRAND COMPATIBILITY
  - INACTIVE / INEFFECTIVE REAR BRAKES
  - PAD SURFACE CRYSTALLIZATION
  - CALIPER GEOMETRY
  - NON-DIRECTIONAL PADS
  - ANTISQUEAL SHIM
  - REMOVABLE ANTISQUEAL SHIM
  - WHEN RE-INSTALLING THE WHEELS
  - TEST DRIVE

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

- IV** ↓ FULFIL THE WHOLE LIST
- BALL JOINTS, BUSHINGS AND SILENT BLOCKS
  - SHOCK ABSORBERS AND SPRINGS
  - WHEEL BEARINGS
  - CHECK BODY RIGIDITY
  - IMBALANCE BETWEEN AXLES
  - COUNTERFEIT PARTS INSTALLED
  - REFURBISHED WHEEL RIM?

	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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