BTC Automotive Technology

Job Sheet: SS9 – MacPherson strut diagnosis/repair

Objective: To familiarize student with the procedure of disassembling and repairing a typical MacPherson strut type front suspension.

Procedure: Document vehicle. List a complaint associated with the vehicle if applicable. Record procedures as described below. Student must be time efficient in all activities and must not exceed 2 times flat rate. Repair quality must be at industry standard.

Repair order must be attached.

Vehicle: ___________________________________________________________

Complaint: _______________________________________________________

☐ Diagnose MacPherson suspension system noises, body sway and uneven ride height concerns and record.

_________________________________________________________________

☐ Inspect condition of all front end components including control arm, control arm bushings and bumpers, lower ball joint, strut rods and bushings, steering knuckle, etc… and record any problems.

_________________________________________________________________

☐ Record ball joint measurements below:

   Ball joint movement- axial _____________ radial _____________

☐ Is ball joint within specs? _____________________

☐ Remove MacPherson strut assembly and disassemble. Inspect cartridge, housing, spring, insulators and upper bearing mount for damage and record below.

_________________________________________________________________

☐ Repair front suspension or strut as necessary and record. _________________

Related NATEF tasks: IV.B.1.2  IV.B.1.4  IV.B.1.6  IV.B.1.10