

REPAIR SHEET - brake pads replacement

REASON: used brake pads reducing braking performance and injuring safe operation of the vehicle

OPERATOR	WORKSHOP	DATE
REGISTRATION	TIME 0h 44min	COST

REQUIRED TOOLS			SAFETY	
☐ Hydraulic jack	☐ Microfiber cloth	☐	☐ Gloves	
☐ Flat screwdriver	☐ Brake cleaner spray	☐	☐ Steel toe-cap shoes	
☐ Impact wrench	☐	☐	☐	
☐ 19mm impact wrench socket	☐	☐	☐	
☐ 4mm stubby ball end Allen key	☐	☐	☐	

	TOOLS	PROCESS	ASSEMBLY DRAWING	ESTIMATED TIME
1	Hydraulic jack	Vehicle lifting: 1- Position the hydraulic jack head in the center of the chassis beam and lift the vehicle. 2- The procedure is the same for lifting both the front and rear ends of the vehicle. WARNING: DO NOT LOWER THE VEHICLE WHEN THE WHEELS ARE REMOVED		2
		REMARKS		REAL TIME
2	Impact wrench, 19mm impact wrench socket	Wheel removal: The procedure is the same for the front and rear wheels. 1- Using the impact drill and the 19mm hex socket, unscrew the nuts (4 per wheel) that hold the wheel on the hub. 2- Remove the wheel by sliding it out.	 	8
		REMARKS		REAL TIME
3	4mm stubby ball end allen key	Disassembly of used brake pads: 1- Using the special Allen wrench, unscrew the retaining pin of the pads at the top of the brake caliper. 2- Remove the used brake pads.	  	8
		REMARKS		REAL TIME
4	4mm stubby ball end allen key	Installation of new brake pads: 1- Using a flathead screwdriver, lever the brake pistons to retract them. 2- Insert the new brake pads. 3- Screw in the retaining pin without tightening it too much.	  	8
		REMARKS		REAL TIME
5	Brake cleaner spray, Microfiber cloth	Brake disc cleaning: 1- Apply brake cleaner liquid or spray on the disc and clean with a clean microfiber cloth. Make sure that all inner and outer surfaces are clean.		4
		REMARKS		REAL TIME

	TOOLS	PROCESS	ASSEMBLY DRAWING	ESTIMATED TIME
6	Impact wrench, 19mm impact wrench socket	Wheel assembly: 1- Align the four holes of the wheel with the four studs on the hub and slide it until it sits against the hub. 2- Screw in the four nuts and tighten them in a crisscross pattern (tighten the nuts in this order: 1,3,2,4). 3- Repeat each step for all brake pads (2x per wheel, 4x wheels in total).		12
		REMARKS		REAL TIME
7	Hidraulic jack	Lowering the vehicle: ensure that all the wheels are mounted and lower the vehicle by releasing the pressure from the hydraulic jack.		2
		REMARKS		REAL TIME