

REPAIR SHEET - Front hub and bearings replacement

REASON:

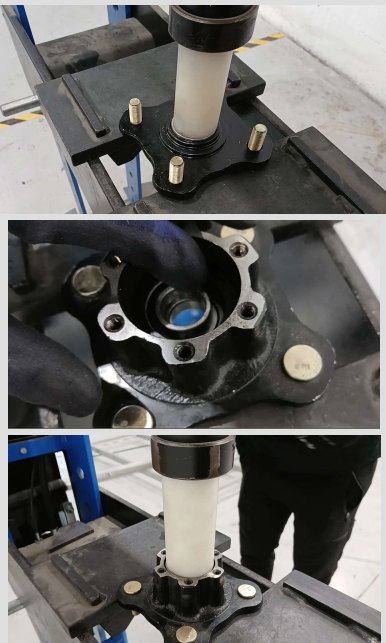
OPERATOR _____
REGISTRATION _____

WORKSHOP _____ DATE _____
TIME 14min COST _____

REQUIRED TOOLS				SAFETY	
☐ Impact wrench	☐ 19mm socket	☐ Vice	☐ Safety shoes		
☐ Flathead screwdriver	☐ Hammer	☐ Hydraulic press	☐ Safety gloves		
☐ Allen key	☐ 10mm socket	☐ Pliers	☐		
☐ 24mm socket	☐	☐	☐		
☐	☐	☐	☐		

TOOLS	PROCESS	ASSEMBLY DRAWING	ESTIMATED TIME
1 Impact wrench, 19mm socket	Lifting the vehicle and removing the front wheel: 1- Lift the vehicle using a suitable hydraulic jack. 2- Using an impact wrench with a 19 mm socket, loosen the wheel nuts and remove the wheel.	 	1
REMARKS			REAL TIME
2 Impact wrench, 24mm socket	Removing the hub nut: 1- Using pliers, remove the cotter pin from the front hub retaining nut. 2- Using an impact wrench with a 24 mm socket, loosen and remove the hub retaining nut.	 	1
REMARKS			REAL TIME
3 Allen key	Removing the brake caliper: 1- Using an Allen wrench, loosen the two brake caliper mounting bolts and remove the caliper from its bracket.	 	1
REMARKS			REAL TIME

	TOOLS	PROCESS	ASSEMBLY DRAWING	ESTIMATED TIME
4		Removing the front hub: 1- Once the brake caliper has been removed, pull the front hub off.		1
		REMARKS		REAL TIME
5	10mm socket	Removing the disc carrier assembly and disc: 1- Using a 10 mm socket wrench, loosen the bolts securing the brake disc carrier and remove it.		1
		REMARKS		REAL TIME
6	Vice, flathead screwdriver, hammer	Removing the hub SPI seals: 1- Place the hub in a bench vise and, using a flathead screwdriver, remove the bushings and SPI seals from the hub.		1
		REMARKS		REAL TIME

TOOLS		PROCESS	ASSEMBLY DRAWING	ESTIMATED TIME	
7	Vice, flathead screwdriver, hammer	Removing the hub bearings: 1- With the hub secured in a bench vise, slide the spacer sleeve located between the two bearings to one side to access the lower bearing. Using a flathead screwdriver and a hammer, tap evenly until the bearing is removed. 2- Turn the hub over, place it back in the bench vise, and using a flathead screwdriver and a hammer, tap evenly until the second bearing is removed.		1	
		REMARKS			REAL TIME
8	Hydraulic press, nylon cylinder	Installing the hub bearings: 1- Using a hydraulic press, place the hub on the workbench and, with a suitable cylinder, press the bearing into its housing. 2- Turn the hub over, insert the central spacer sleeve, and then press in the second bearing in the same manner as the first.		2	
		REMARKS			REAL TIME
9		Installing the SPI seals and bushings: 1- Manually insert the SPI seal into its housing, then insert the corresponding bushing. 2- Turn the hub over and repeat the operation on the other side.		1	

TOOLS		PROCESS	ASSEMBLY DRAWING	ESTIMATED TIME
REMARKS				REAL TIME
10	10mm socket	Installing the disc carrier assembly and disc: 1- Using a 10 mm socket, tighten the bolts securing the brake disc carrier assembly.		1
REMARKS				REAL TIME
11	Impact wrench, 24mm socket, pliers	Installing the hub: 1- Using an impact wrench with a 24 mm socket, tighten the front hub retaining nut. 2- Insert and bend the front hub nut cotter pin to secure it properly.	 	1
REMARKS				REAL TIME
12	Allen key	Installing the brake caliper: 1- Place the brake caliper onto its bracket. 2- Screw in the two brake caliper mounting bolts and rotate the hub to check the caliper's correct position. 3- Tighten the two brake caliper bolts using an Allen wrench.		1
REMARKS				REAL TIME
13	Impact wrench, 24mm socket	Lowering the vehicle and installing the front wheel: 1- Using an impact wrench with a 19 mm socket, tighten the wheel nuts. 2- Safely lower the vehicle from the hydraulic jack.	 	1
REMARKS				REAL TIME