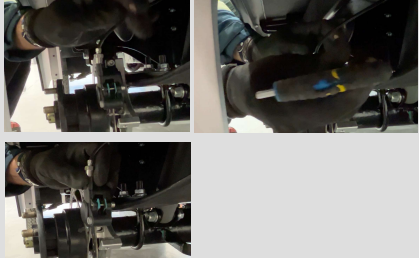


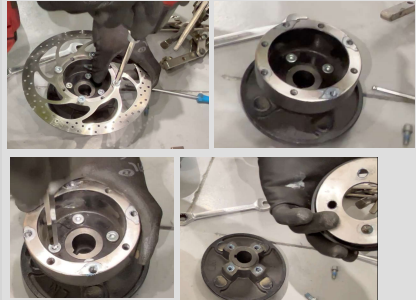
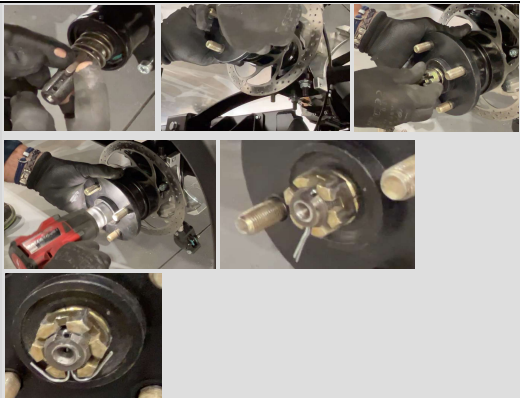
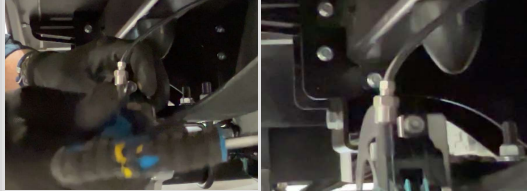
REPAIR SHEET - Rear hub replacement

REASON: Worn out or damaged rear hubs.

OPERATOR	WORKSHOP	DATE
REGISTRATION	TIME 0h 41min	COST

REQUIRED TOOLS			SAFETY	
☐ 5mm allen wrench	☐ Hub extractor	☐ thread sealant	☐ Safety goggles	
☐ 19mm and 30mm impact drill socket	☐ 17mm fixed hexagonal wrench	☐	☐ Gloves	
☐ Impact drill	☐ Hammer	☐	☐ Steel toe cap shoes	
☐ microfiber cloth	☐ Hydraulic jack	☐		
☐ brake cleaner	☐ pliers	☐		

TOOLS	PROCESS	ASSEMBLY DRAWING	ESTIMATED TIME
1 Hydraulic jack.	Lifting the vehicle: 1. Center the jack on the chassis beam and operate its hydraulic system until the wheels are 5 centimeters off the ground. IMPORTANT: Once the wheels are removed, do not release the jack's pressure before reinstalling them.		1
REMARKS			REAL TIME
2 19mm impact drill socket, Impact drill.	Removal of the rear wheels: 1- Using a 19mm hexagonal socket and an impact drill, loosen the four nuts that secure the wheel to the hub. 2- Slide the wheel outwards and put it away from the work area.		2
REMARKS			REAL TIME
3 5mm allen wrench.	Removal of the brake and handbrake calipers: 1- Using a 5mm Allen wrench, unscrew the two bolts on each brake caliper. 2- Hang them up so they don't obstruct the rest of the process.		5
REMARKS			REAL TIME
4 Pliers, 30mm hex socket, Impact drill, Hub extractor, 17mm hexagonal wrench.	Rear Hub Removal: 1- Using pliers, loosen the center nut's locking pin by prying it off. 2- Using a 30mm hex socket and an impact drill, unscrew the center nut. 3- Position the hub extractor, aligning the center bolt with the hub axle and placing the three tabs of the hub extractor against the hub's edge. 4- Tighten the center bolt with a 17mm wrench and deliver a sharp tap to the center of the bolt. Caution: Throughout the hub removal process, ensure you hold the hub securely, as the exact moment of removal is unpredictable.	     	4

TOOLS		PROCESS	ASSEMBLY DRAWING	ESTIMATED TIME
REMARKS				REAL TIME
5	5mm allen wrench.	Rear hub assembly disassembly: 1- Using a 5mm Allen wrench, unscrew the four bolts securing the brake disc to the hub. 2- Remove the disc. 3- Unscrew the four bolts securing the two hub halves.		6
REMARKS				REAL TIME
6	Microfiber cloth, Brake cleaner, 5mm allen wrench, thread sealant	Hub Assembly Reassembly: 1- Apply thread sealant to the four nuts that join the two parts of the hub and tighten them with the 5mm Allen wrench. 2- Clean the brake disc with the microfiber cloth and brake cleaner. 3- Once the disc is clean, align it with the four holes in the hub, apply thread sealant to the four bolts, and tighten them with the 5mm Allen wrench.		6
REMARKS				REAL TIME
7	Impact drill, 30mm impact drill socket, Pliers.	Rear Hub Assembly: 1- Place the spring and cotter pin on the rear axle. 2- Slide the hub along the axle until it stops against the spring. Place the lock washer and the center lock nut, and tighten with an impact drill and a 30mm hex socket until the hole in the lock pin is aligned with one of the slots in the center nut. Caution: Brake and handbrake caliper hoses can become trapped between the disc and the caliper bracket. 3- Insert the lock pin into the nut and, using pliers, bend the arms so that it is secured.		4
REMARKS				REAL TIME
8	5mm allen wrench.	Brake and handbrake calipers installation: 1- Align the brake caliper with the disc and tighten the two bolts, each with its washer and aplying thread sealant. 2- Ensure the disc does not rub against the brake pads when the brakes are not applied, and tighten with a 5mm Allen wrench.		8
REMARKS				REAL TIME
9	Impact drill, 19mm impact drill socket	Rear Wheel Installation: 1. Slide the rear wheel onto the four hub bolts. 2. Tighten the four nuts using an impact drill and a 19mm hex socket. Repeat from step 2 for the opposite side.		4
REMARKS				REAL TIME

TOOLS		PROCESS	ASSEMBLY DRAWING	ESTIMATED TIME
10	Hydraulic jack	Lowering the vehicle: Once both rear wheels are mounted, release the pressure from the hydraulic jack.		1
	REMARKS			REAL TIME