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Evo X AYC/ACD Pump Install & Bleed Tech Sheet

Read the whole sheet before you start

WHAT YOU NEED

- **Mitsubishi Diamond ATF SP-III** (or SP-III equivalent), 2+ qts
- **10mm** wrench for the 3 bleeders (1 ACD, 2 rear AYC)
- Clear tubing and catch bottles
- Lift or **4** jack stands (all wheels off the ground)
- A helper to watch the fluid

BLEEDER LOCATIONS

- **ACD (1):** bottom of the transfer case, next to the engine oil pan, under a rubber cap. Remove the front under cover to reach it.
- **Rear AYC (2):** middle of the rear diff, facing the rear bumper, just behind the black crossmember.
- **Reservoir:** in the trunk, behind the right-side trunk trim.

BEFORE YOU START

- Bleed at **50–86°F**. Cold ATF is too thick to bleed well.
- Pull the trunk trim so you can see the reservoir.
- Fill to MAX. **Squeeze the large inlet hose** a few times to push air out of the bottom of the reservoir, then top off.
- Point the steering wheel straight ahead.
- Check every fitting and connector before you power up.

⚠ NEVER LET THE RESERVOIR RUN DRY. Keep the fluid above the reservoir's filter. If it drops below, air gets trapped under the filter: squeeze the feed hose to clear it, then top off.

⚠ STEP 9 SPINS THE WHEELS WITH THE CAR IN THE AIR. Use the factory lift points on solid, level ground. Keep everyone clear of the wheels and axles and out from under the car. Stop the wheels and shut the car off before you reach near anything.

DONE WHEN

- The ACD and passenger-side rear bleeders both run a clean stream with no bubbles
- You don't hear a heavy **clunk** at startup or on the brake pedal
- The fluid level holds after the test drive
- No ACD/AYC warning lights

If the clunk is still there, repeat steps 6–13. Recheck the fluid level after your first few drives.

BLEED PROCEDURE

PRIME

1. With the pump connected to the car and the reservoir, **cycle the key** fully OFF, then ON. Don't start the car. ☐
2. **Leave the key ON.** ☐

REAR, FIRST PASS

3. Crack open **both rear bleeders** and watch the fluid drip. ☐
4. Let them drip for a bit, then **close** both rear bleeders. ☐
5. **Top off** the reservoir. ☐

ACD

6. Crack open the **ACD bleeder**. Let it run until you get a **steady stream**. Don't let the reservoir run out. ☐
7. **Close** the ACD bleeder. ☐

REAR, WHEELS UP

8. Crack open **both rear bleeders** again. ☐
9. With the car in the air, run all four wheels in **1st at ~3,000 RPM** (~20 mph). ☐
10. Watch the **passenger-side** bleeder until it runs a steady stream. ☐
11. The **driver-side** bleeder only drips a few drops a second. **This is normal.** ☐

FINISH

12. **Close** both bleeders. Lower the car and drive it, **turning left and right a lot**. ☐
13. **Top off** the fluid. ☐

Install date: _____

Pump serial / order #: _____