

# '87-'06 WRANGLER YJ & TJ FAN SHROUD

## PARTS LIST AND INSTALLATION GUIDE



### PARTS LIST

1 PC | ALUMINUM FAN SHROUD

1 PC | 16" MISHIMOTO SLIM ELECTRIC FAN

1 PC | ALUMINUM OVERFLOW RESERVOIR BRACKET\*

1 PC | ALUMINUM POWER STEERING RESERVOIR BRACKET\*

HARDWARE KIT

*OPTIONAL: MISHIMOTO FAN CONTROLLER, 1/8" NPT OR PROBE*

**\*OVERFLOW RESERVOIR BRACKET IS USED FOR  
1997-2006 4-CYLINDER AND 6-CYLINDER APPLICATIONS**

**\*POWER STEERING BRACKET IS USED FOR  
1997-2006 4-CYLINDER APPLICATIONS**

**ADDITIONAL HARDWARE (IF PURCHASING OPTIONAL  
FAN CONTROLLER)**

1 PC | MISHIMOTO FAN CONTROLLER

1 PC | TEMPERATURE SENSOR (1/8" NPT OR PROBE)

1 PC | IN-LINE FUSE HOLDER

2 PC | BUTT SPLICES

2 PC | 1/4" WIDE QUICK-DISCONNECT TERMINALS

2 PC | 3/8" STUD SIZE RING TERMINAL

1 PC | 3/8" BLACK WIRE COVER, 5' LENGTH

1 PC | 3/16" BLACK SHRINK WRAP, 6" LENGTH

1 PC | 1/4" BLACK SHRINK WRAP, 2" LENGTH

3 PC | 7.5" BLACK ZIP-TIES

### TOOLS NEEDED

10MM SOCKET

FLATHEAD SCREWDRIVER

7/16" SOCKET

STRAP WRENCH OR PRY-BAR OR

1/4" SHORT EXTENSION

FAN CLUTCH TOOL

1/4" DRIVE RATCHET

FUNNEL

1/2" WRENCH

JEEP-APPROVED COOLANT

PLIERS

**INSTALLATION TIME 1.5 HOURS**

**INSTALL DIFFICULTY**

**NOTE:** This fan shroud kit requires the installation of a fan controller, which is not included in this kit.

### DISCLAIMER

- Raise vehicle only on jack stands or on a vehicle lift.
- Allow vehicle to cool completely prior to attempting installation.
- Do not run the engine or drive the vehicle while overheating; serious damage can occur.
- Please dispose of any liquids properly.
- Mishimoto is not responsible for any vehicle damage or personal injury due to installation errors, misuse, or removal of Mishimoto products.
- Mishimoto suggests that a trained professional install all Mishimoto products.

### INSTALLATION INSTRUCTIONS

**NOTE:** Donor vehicle had Mishimoto Radiator and Mishimoto hoses installed before this video was shot. Should not change the install too much, but some bolt and clamp sizes may differ from stock.

01. Make sure that the vehicle is completely cool before starting work. Place a coolant drain pan under the drain on your radiator. Loosen and remove the radiator drain plug, and then remove the coolant pressure cap to speed up the draining process. Drain the radiator until the level is below the upper hose outlet, and reinstall the drain plug.
02. Compress the clamp on the upper radiator hose where it attaches to the radiator, and slide it down the hose. Remove the upper radiator hose from the radiator. (1x constant-tension clamp)
03. Remove the overflow coolant line from the overflow nipple on the radiator. Then, remove the overflow expansion tank from the radiator by sliding it upward (if applicable).

CONTINUED ON FOLLOWING PAGE

# '87-'06 WRANGLER YJ & TJ FAN SHROUD

## PARTS LIST AND INSTALLATION GUIDE



- 04.** Remove the reservoir for the power steering fluid. Locate the half-moon tab on the shroud and rotate it 180 degrees, and then lift the reservoir upward to free it from the shroud. Do not disconnect the hoses from the reservoir. (Skip this step if you have the 6-cylinder TJ, or if your vehicle does not have a shroud-mounted reservoir.)



- 05.** Lock the water pump pulley with a strap-wrench, pry-bar, or fan clutch tool, and remove the nuts that secure the fan and pulley to the water pump. Then remove the engine fan. (4x 1/2" nuts)



- 06.** Remove the bolts that hold the fan shroud to the radiator. (4x 10mm bolts)
- 07.** With the fan still inside the fan shroud, remove both the fan and shroud from the engine bay simultaneously.
- 08.** Ensure that the water pump pulley is still on the water pump, and install the original four nuts onto the water pump studs. Use the same method to lock the pulley and tighten these nuts. (4x 1/2" nuts)

- 09.** Prepare the Mishimoto reservoir brackets. For 1987–1995 YJ (4-cyl or 6-cyl) Jeeps, do not use any of the supplied reservoir brackets. For 1996–2007 TJ (6-cyl) Jeeps, use only the larger reservoir bracket. For 1996–2007 TJ (4-cyl) Jeeps, use both mounting brackets. If your installation requires both brackets, attach the curved bracket to the larger flat bracket using the supplied hardware. Orient the curved bracket so that the curve points upward, toward the end of the flat bracket that has a notch. (2x 10mm bolts)

- 10.** Install the Mishimoto Fan Shroud. If your install requires any of the reservoir brackets, these brackets must install over the fan shroud, not between the fan shroud and radiator. Tip: Loosely thread in the passenger-side bolts first to hold the shroud in place before installing the bracket. Then install the driver-side bolts, and fully tighten all four bolts. (4x 10mm bolts)



- 11.** Install the upper radiator hose to the radiator. Secure it with the original clamp. (1x constant-tension clamp)
- 12.** Attach the coolant overflow reservoir to the mounting bracket (if applicable). Install the overflow coolant line to the overflow nipple on the radiator (if applicable).
- 13.** Attach the reservoir tank for the power steering pump to your new Mishimoto fan shroud bracket (if applicable).



CONTINUED ON FOLLOWING PAGE

# '87-'06 WRANGLER YJ & TJ FAN SHROUD

## PARTS LIST AND INSTALLATION GUIDE



14. Install a Mishimoto Fan Controller to run the fan.
15. Fill the system with premixed, Jeep-approved coolant through the radiator pressure cap (a no-spill coolant funnel is recommended), start the engine and allow it to idle with the cap off. Turn the heater control valve on the vehicle's HVAC unit to full hot and put the fan on low. Monitor the engine temperature and coolant level in the radiator. Add coolant as needed to maintain proper level, and check your connections for leaks. If the vehicle begins to overheat or coolant starts to overflow from the radiator, shut off the engine and allow it to cool before continuing. Once the vehicle is fully warmed up and the coolant level has stabilized, allow the vehicle to cool off completely and top off the coolant level.

Note: While you are bleeding the cooling system, check for fan operation. The fan should cycle on and off once the vehicle reaches operating temperature. If the fan is not working properly, check the installation on your fan controller. Do not drive the vehicle if the fan is not operating properly.

**Congrats! You just finished installing the 1987–2006 Wrangler YJ and TJ Fan Shroud.**

