

## 19. ATF Cooler Pipe and Hose

S502565

### A: REMOVAL S502565A18

#### 1. 2.5l MODEL S502565A1801

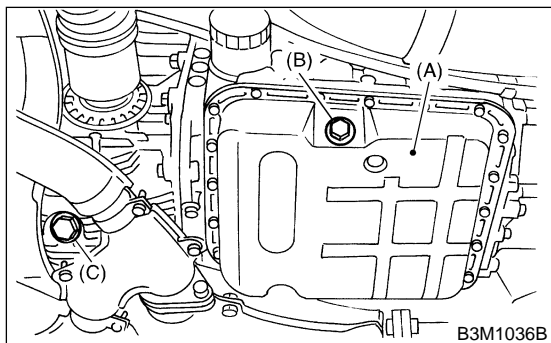
- 1) Remove battery and washer tank.
- 2) Lift-up the vehicle.
- 3) Drain ATF completely.

**NOTE:**

Tighten ATF drain plug after draining ATF.

**Tightening torque:**

**25 N·m (2.5 kgf·m, 18.1 ft·lb)**

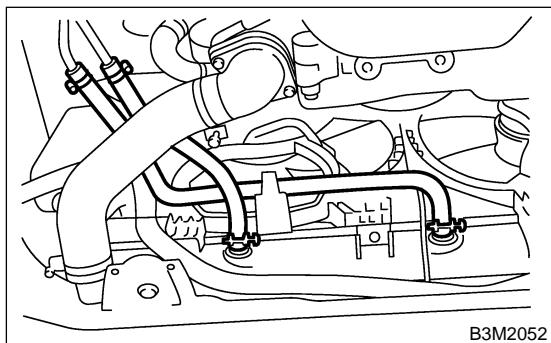


- (A) Oil pan
- (B) Drain plug
- (C) Differential oil drain plug

- 4) Remove the under cover.
- 5) Disconnect ATF cooler hose from radiator.

**NOTE:**

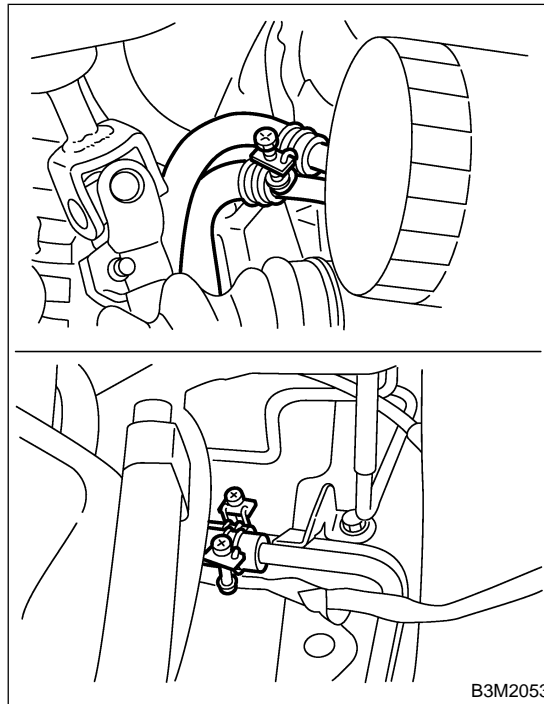
- Do not remove with a screwdriver or other pointed tools.
- When the hose is difficult to remove, wrap a shop cloth around the hose to protect it. Turn it with pliers, and then pull directly out with your hand.



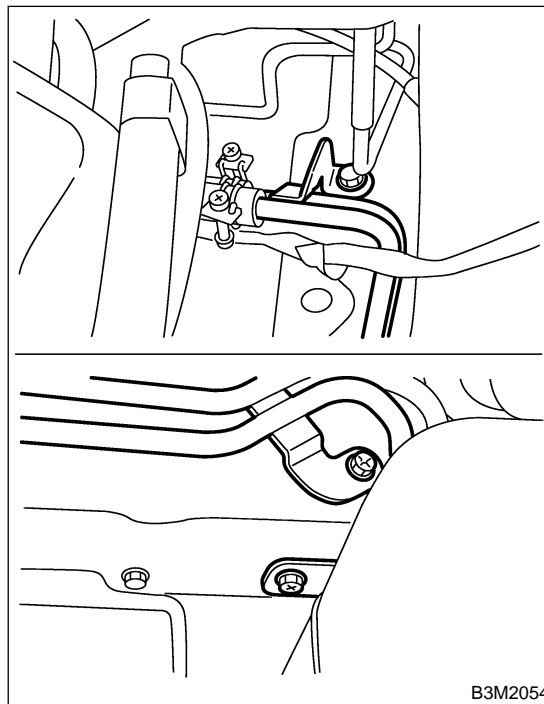
- 6) Disconnect ATF cooler hoses from pipes.

**NOTE:**

- Do not remove with a screwdriver or other pointed tools.
- When the hose is difficult to remove, wrap a shop cloth around the hose to protect it. Turn it with pliers, and then pull directly out with your hand.



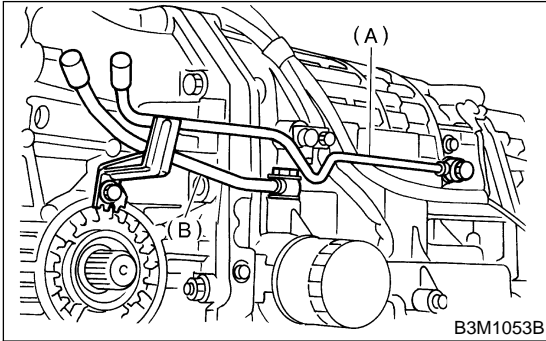
- 7) Remove ATF cooler pipe from frame.



8) Remove the oil cooler inlet and outlet pipes.

**CAUTION:**

When removing outlet pipe, be careful not to lose ball and spring used with retaining screw.



- (A) Inlet pipe
- (B) Outlet pipe

**2. 3.0ℓ MODEL** S502565A1802

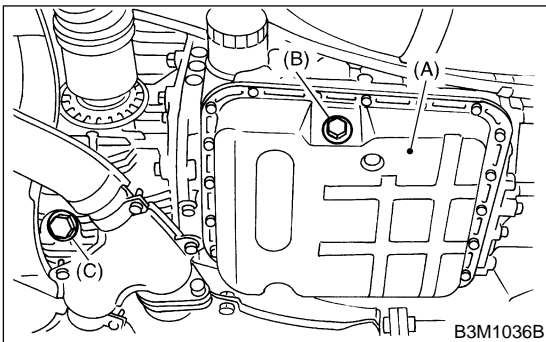
- 1) Remove battery and washer tank.
- 2) Lift-up the vehicle.
- 3) Drain ATF completely.

**NOTE:**

Tighten ATF drain plug after draining ATF.

**Tightening torque:**

**25 N·m (2.5 kgf·m, 18.1 ft·lb)**



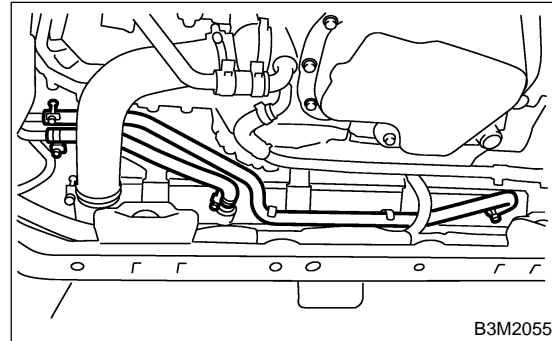
- (A) Oil pan
- (B) Drain plug
- (C) Differential oil drain plug

4) Remove the under cover.

5) Disconnect ATF cooler hose from radiator.

**NOTE:**

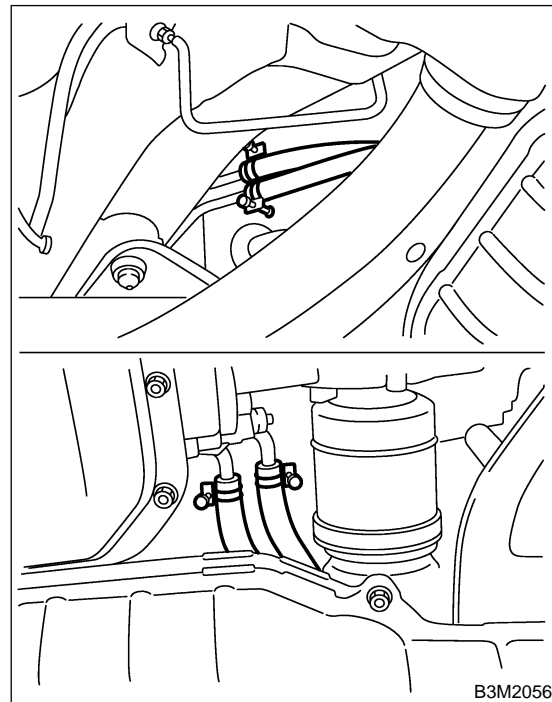
- Do not remove with a screwdriver or other pointed tools.
- When the hose is difficult to remove, wrap a shop cloth around the hose to protect it. Turn it with pliers, and then pull directly out with your hand.



6) Disconnect ATF cooler hoses from transmission.

**NOTE:**

- Do not remove with a screwdriver or other pointed tools.
- When the hose is difficult to remove, wrap a shop cloth around the hose to protect it. Turn it with pliers, and then pull directly out with your hand.



7) Remove front left mud guard.  
<Ref. to EI-23 REMOVAL, Mud Guard.>

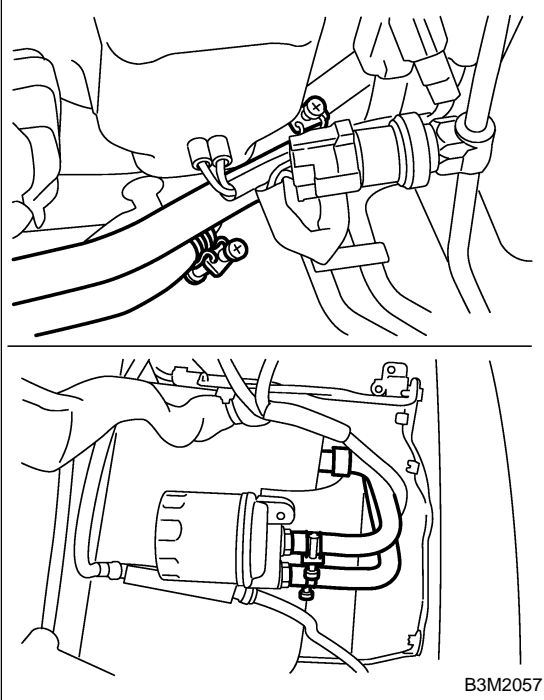
# ATF COOLER PIPE AND HOSE

Automatic Transmission

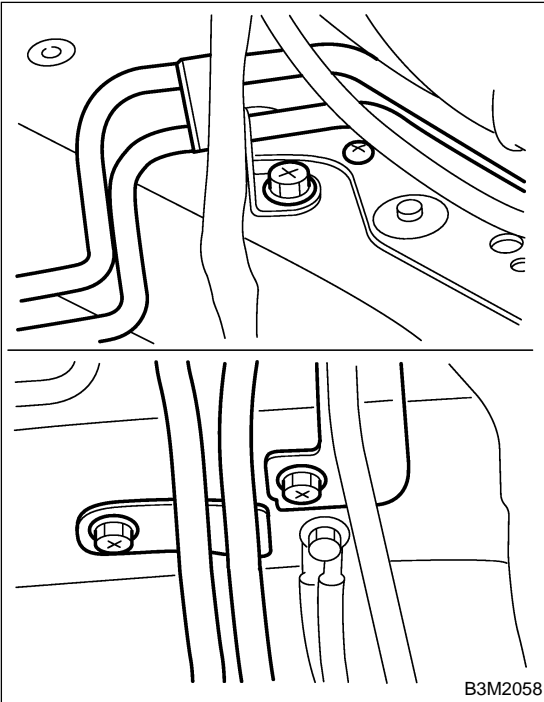
8) Disconnect ATF cooler hoses from ATF filter.

**NOTE:**

- Do not remove with a screwdriver or other pointed tools.
- When the hose is difficult to remove, wrap a shop cloth around the hose to protect it. Turn it with pliers, and then pull directly out with your hand.



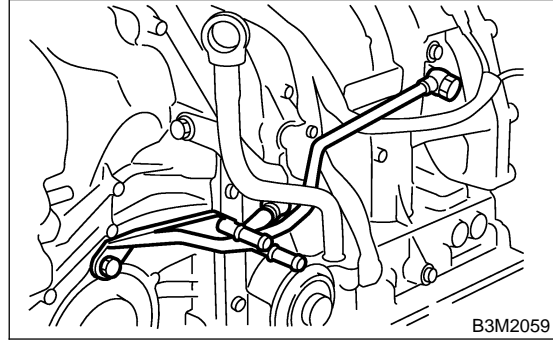
9) Remove AT cooler pipe from frame.



10) Remove the oil cooler inlet and outlet pipes.

**CAUTION:**

When removing outlet pipe, be careful not to lose ball and spring used with retaining screw.



## B: INSTALLATION

S502565A11

### 1. 2.5ℓ MODEL

S502565A1101

1) Install the oil cooler outlet and inlet pipes.

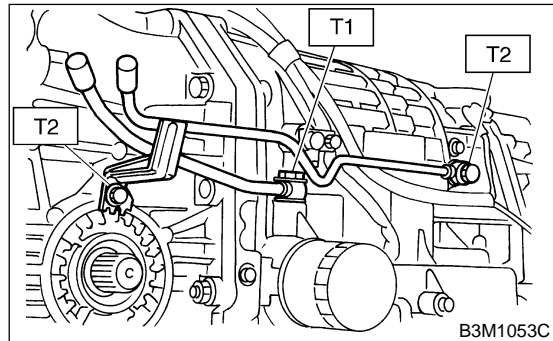
**CAUTION:**

Be sure to use a new aluminum washer.

**Tightening torque:**

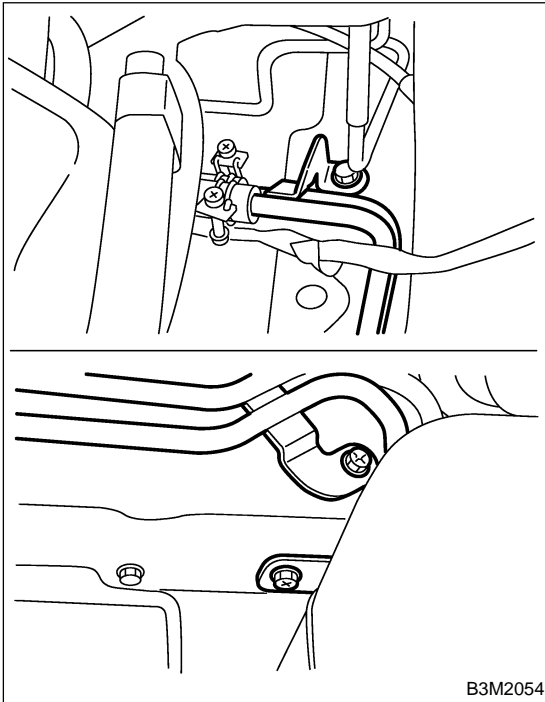
**T1: 44 N·m (4.5 kgf·m, 32.5 ft·lb)**

**T2: 25 N·m (2.5 kgf·m, 18.1 ft·lb)**



- (A) Inlet pipe
- (B) Outlet pipe

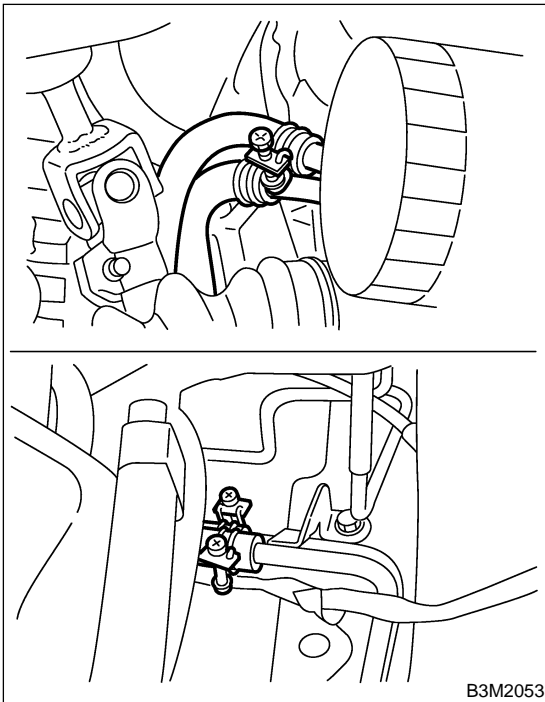
2) Install ATF cooler pipe to frame.



3) Connect ATF cooler hose to pipe transmission side.

**NOTE:**

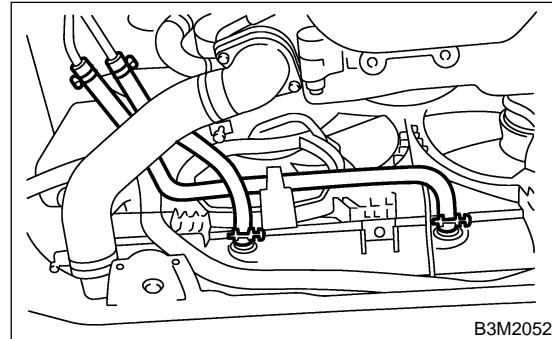
- Install so that the hose is not folded over, excessively bent, or twisted.
- Be careful to insert the hose to the specified position.



4) Connect ATF cooler hose to pipe of radiator side.

**NOTE:**

- Install so that the hose is not folded over, excessively bent, or twisted.
- Be careful to insert the hose to the specified position.



5) Install the under cover.

6) Install battery and washer tank.

7) Fill ATF. <Ref. to AT-9 Automatic Transmission Fluid.>

**NOTE:**

Make sure there are no ATF leaks in joints between the transmission, radiator, pipes, and hoses.

**2. 3.0ℓ MODEL** S502565A1102

1) Install the oil cooler outlet and inlet pipes.

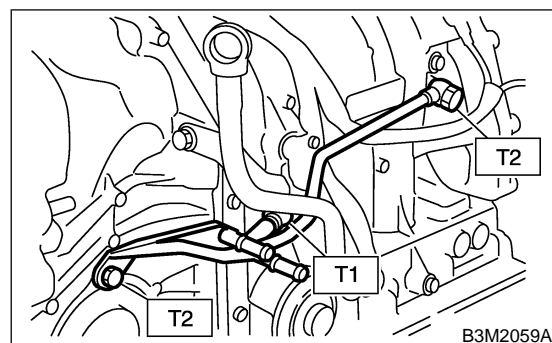
**CAUTION:**

Be sure to use a new aluminum washer.

**Tightening torque:**

**T1: 44 N·m (4.5 kgf-m, 32.5 ft-lb)**

**T2: 25 N·m (2.5 kgf-m, 18.1 ft-lb)**

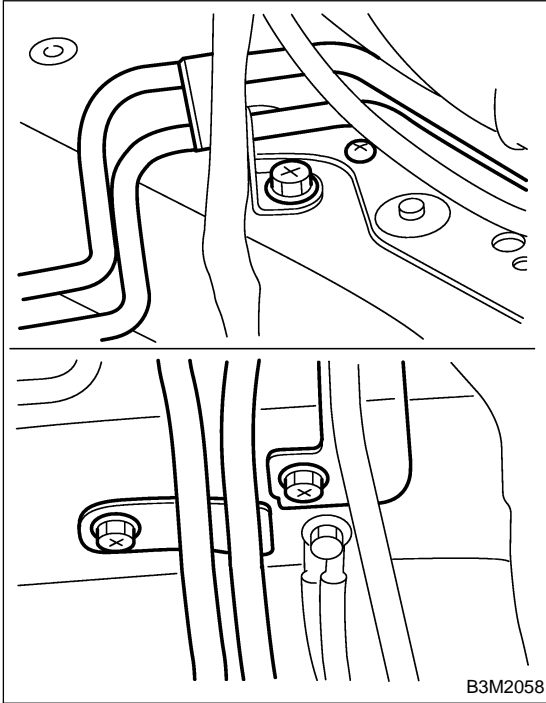


- (A) Inlet pipe
- (B) Outlet pipe

# ATF COOLER PIPE AND HOSE

Automatic Transmission

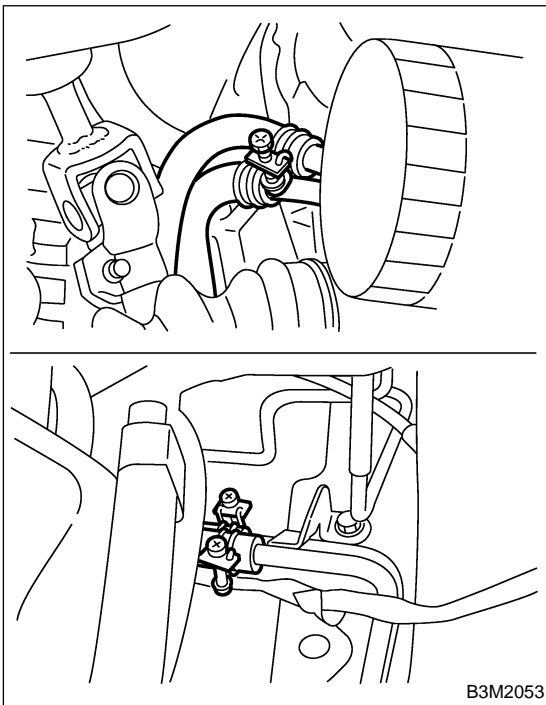
2) Install ATF cooler pipe to frame.



3) Connect ATF cooler hose to transmission.

NOTE:

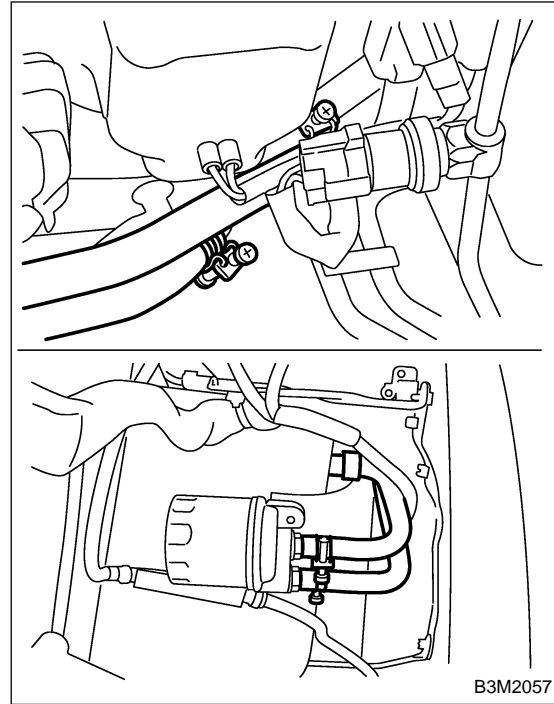
- Install so that the hose is not folded over, excessively bent, or twisted.
- Be careful to insert the hose to the specified position.



4) Connect ATF cooler hoses from ATF filter.

NOTE:

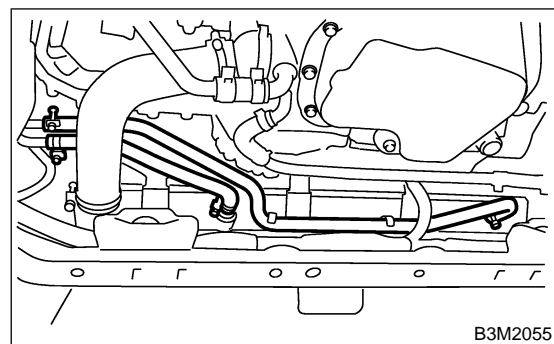
- Install so that the hose is not folded over, excessively bent, or twisted.
- Be careful to insert the hose to the specified position.



5) Connect ATF cooler hoses from radiator.

NOTE:

- Install so that the hose is not folded over, excessively bent, or twisted.
- Be careful to insert the hose to the specified position.



6) Install front left mud guard. <Ref. to EI-0 INSTALLATION, Mud Guard.>

7) Install the under cover.

8) Install battery and washer tank.

9) Fill ATF. <Ref. to AT-9 Automatic Transmission Fluid.>

## C: INSPECTION S502565A10

Repair or replace any defective hoses, pipes, clamps, and washers found from the inspection below.

- 1) Check for ATF leaks in joints between the transmission, radiator, pipes, and hoses.
- 2) Check for deformed clamps.
- 3) Lightly bend the hose and check for cracks in the surface and other damage.
- 4) Pinch the hose with your fingers and check for poor elasticity. Also check for poor elasticity in the parts where the clamp was by pressing with your fingernail.
- 5) Check for peeling, cracks, and deformation at the tip of the hose.

# ATF COOLER PIPE AND HOSE

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**MEMO:**

AT-52