

INSTALLATION INSTRUCTIONS PRESS-FIT SWIVEL BANJOS

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The following instructions are based on installing the press-fit swivel banjos into some Toyota JZ engines. The procedure may differ depending on the engine. While not required, removing the valve covers from may make installation easier. Once installed, these fittings are difficult to remove.

FOLLOW STEPS 1-3 IF REPLACING TOYOTA P/N: 90480-18001 PCV VALVE GROMMET WITH RADIUM P/N: 20-0408 PRESS-FIT BANJO FITTING.

FOLLOW STEPS 4-9 IF REPLACING THE CRANKCASE VENT BARB WITH RADIUM P/N: 20-0409, 20-0509, OR 20-0609 PRESS-FIT BANJO FITTINGS.

| STEP | TOOLS NEEDED | INSTRUCTIONS | PHOTO |
|------|-----------------|--|-------|
| 1 | 10mm socket | <p>PCV Valve Delete Fitting Installation</p> <p>Prop the hood and disconnect the battery. Remove the short OEM hose that attaches from the PCV valve to the intake manifold port. This hose is secured with 2 spring clamps.</p> <p>To release, pull the metal PCV valve outwards away from the valve cover. Next, pry the rubber grommet out.</p> <p>Once the OEM fitting is removed, inspect and clean the hole.</p> | |
| | Pliers | | |
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| 2 | Oil Lubrication | <p>Place the included 10AN fitting into a freezer for 5-10 minutes. This will slightly decrease its size.</p> <p>Lubricate the press-in portion of the fitting and the valve cover hole.</p> <p>Place a socket, such as a 14mm socket, onto the center of the fitting, contacting only the stainless steel material. Use a mallet and gently tap the fitting into the valve cover. Check often to make sure the fitting is going in straight. Be cautious to not contact the black aluminum 10AN section of the fitting when driving the fitting into the valve cover.</p> | |
| | Mallet | | |
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| 3 | | <p>There is a machined shoulder allowing it to seat properly into the valve cover's recessed area.</p> <p>When installing a hose end (not included), do NOT overtighten the fitting.</p> <p>PCV Valve Delete Fitting Installation Complete</p> | |
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| 4 | Pliers | <p>CCV Fitting Installation</p> <p>Remove the short OEM hose that attaches from the valve cover port to the air intake pipe port. This port is found on the exhaust side valve cover. The hose is secured with 2 spring clamps.</p> <p>NOTE: For the Toyota 1JZ-GTE (non VVT-i) engine, skip the next 2 steps since the OEM tube is straight (not a 90 degree elbow).</p> <p>Insert an object inside the barbed port. For the Toyota 2JZ-GTE (pictured), a 1/4" drive, 1/4" deep socket can work.</p> | |
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| 5 | | For Toyota 1JZ-GTE VVT-i, a 1/4" drive, 6mm deep socket can work. |  |
| | | For the Toyota 2JZ-GE valve cover (pictured) a 1/4" drive, 8mm drive socket was used. | |
| | | Find something that will aid in leverage such as a 1/4" drive socket extension. Often times, the extension can be rotated back and forth and the tube can be easily worked out, as shown. | |
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| 6 | | If the tube is stubborn, find something that can fit snug over the barb. A 12mm open-ended combination wrench is shown. |  |
| | | The next step will require a helper. While one person gently taps the wrench with a hammer, the other person should simultaneously rock the tube back and forth with the socket wrench. | |
| | | Be cautious to not deform the valve cover hole. | |
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| 7a | | Toyota 2JZ-GTE |  |
| | | The pressed-in fitting will eventually break loose. | |
| | | Once the OEM fitting is removed, inspect and clean the hole. | |
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| 7b | | Toyota 2JZ-GE |  |
| | | The pressed-in fitting will eventually break loose. | |
| | | Once the OEM fitting is removed, inspect and clean the hole. | |
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| 7c | | Toyota 1JZ-GTE VVT-i |  |
| | | The pressed-in fitting will eventually break loose. | |
| | | Once the OEM fitting is removed, inspect and clean the hole. | |
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| 7d | Pliers | Toyota 1JZ-GTE (Non VVT-i) |  |
| | | The pressed-in fitting will eventually break loose. | |
| | | Once the OEM fitting is removed, inspect and clean the hole. | |
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| 8 | Oil Lubrication | <p>Place the included 10AN fitting into a freezer for 5-10 minutes. This will slightly decrease its size.</p> <p>Lubricate the press-in portion of the fitting and the valve cover hole.</p> <p>Place a socket, such as a 14mm socket, onto the center of the fitting, contacting only the stainless steel material. Use a mallet and gently tap the fitting into the valve cover. Check often to make sure the fitting is going in straight. Be cautious to not contact the black aluminum 10AN section of the fitting when driving the fitting into the valve cover.</p> |  |
| | Mallet | | |
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| 9 | | NOTE: When installing a hose end (not included), do NOT overtighten the fitting. |  |
| | | CCV Fitting Installation Complete | |
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