

TYPES OF BULBS

There are 3 types of bulbs used on Toyota models (excluding headlamps):

SINGLE ENDED BULBS – These are used for exterior lights and are generally accessible by removing a lens cover. On some models, the rear light bulbs can be accessed by removing the cover inside the trunk or cargo compartment. There are two types of single ended bulbs: single filament and double filament.



DOUBLE ENDED BULBS – These are primarily for interior dome lights.



WEDGE BASE BULBS – These are used in the glove box, trunk and as side marker lights. On newer vehicles, these are used for exterior lights including turn signals and brake lights.



NOTE: For details on accessibility, refer to your Toyota Owner's Manual

INSTRUCTIONS

REPLACING A BULB

- 1 REMOVE THE KEYS FROM THE IGNITION WHEN WORKING ON THE VEHICLE. TURN THE HEADLAMP SWITCH OFF. SEE **CAUTION** ON BACK PANEL.
- 2 REMOVE THE BULB LENS COVER OR DISCONNECT THE LIGHT ASSEMBLY FROM THE VEHICLE INTERIOR AS APPLICABLE – Remove the screws and pull off the lens cover or pull off the cover by hand if applicable.
- 3 REMOVE THE BURNED-OUT BULB – For double-ended bulbs, carefully pull back one of the spring clips to release tension on the bulb. For wedge-base bulbs, just pull straight out.
- 4 INSPECT THE SOCKET FOR DIRT AND CORROSION – Clean off any dirt with a rag or paper towel. If corroded, the light socket(s), wire connector, and/or light assembly may require replacement.

Consult your Toyota Dealer Service and/or Parts Departments for details and parts. Use bulbs with wattage ratings given in your owner's manual.

INSTRUCTIONS (continued)

- 5 INSPECT THE LENS COVER AND GASKET – Check for cracks, damage and deterioration. Replace as required to prevent water leakage into the light assembly.
- 6 CHECK FOR LOOSE WIRES OR CONNECTORS – Repair or replace as required.
- 7 INSTALLING A NEW BULB.
 - For single-ended bulbs, align the bulb tabs with the socket slots. Push the bulb in, and turn clockwise to lock.
 - For double-ended bulbs, carefully pull back one of the spring clips to seat the bulb between the clips, then release tension on the clip and make sure the bulb is properly seated.
 - For wedge-base bulbs, push it in all the way.
- 8 INSTALL THE LENS, BULB COVER, OR LIGHT ASSEMBLY AS APPLICABLE.
- 9 CHECK THAT THE LIGHT WORKS.

TROUBLESHOOTING

CONDITION	ACTION
Bulb does not work, flickers or is dim:	Check that the bulb is correctly seated in the socket. Check that the socket is clean. Check that the wires have not come loose. If problems persist, there could be a fault with the vehicle's wiring or electrical system. Contact your Toyota Dealer Service Department for diagnosis and repair.

REFERENCES

Please refer to the following sources for additional information:

- Your vehicle's Owner's Manual
- Your vehicle's Repair Manual

CAUTION

Moving parts like the fan blade and drive belts, as well as extreme heat in the engine compartment or from the exhaust system can result in serious injury.

- Approach with caution and care.
- Never take shortcuts when replacing parts.
- Improper servicing may damage your Toyota and lead to personal injury.
- Unless you have proper knowledge, equipment and tools, you should have your Toyota Dealer Service Department perform the repairs and maintenance.

IMPORTANT SAFETY NOTICE

Proper installation of Genuine Toyota replacement parts is essential for the safe and reliable operation of your vehicle.

Following these instructions will:

- Help to assure your personal safety
- Assist you in the proper replacement of specific parts

There are many variations in the step-by-step procedures used in installing various parts, and varying skill levels of individuals doing the parts replacement. These instructions cannot anticipate all circumstances or provide advice and caution on each. If you are in doubt concerning your ability to replace the part or have any questions, consult your local Toyota Dealer Service Department and have the work performed by an experienced technician.

For further assistance, contact your Toyota dealer.



Visit our Web site at www.toyota.com
M/N 00405-HOWTO-BULB

How To Replace A BULB



A GUIDE TO ASSIST YOU
IN THE PROPER REPLACEMENT
OF GENUINE TOYOTA PARTS



DIFFICULTY LEVEL
FROM ONE TO FOUR—FOUR BEING THE MOST DIFFICULT

ESTIMATED TIME INVOLVED



5-30
MINUTES

TOOLS AND SUPPLIES

For Halogen lamp:

- Genuine Toyota Replacement Halogen Lamp
- Eye protection
- New disposable gloves

For Sealed Beam headlamp:

- Genuine Toyota Replacement Sealed Beam
- Phillips (+ shaped) screwdriver (medium #2)

For Bulb:

- Genuine Toyota Replacement Bulb
- Phillips (+ shaped) screwdriver (small #1)
- Flat-tip (- shaped) screwdriver (small #1)
- Rag or paper towels

TYPES OF HEADLAMPS

Toyota vehicles are equipped with two different types of headlamps. The halogen headlamp is a non-sealed unit that allows replacement of the bulb only.



The sealed beam is a self-contained unit that has the lamp or bulb "sealed" into a larger bulb-like unit.



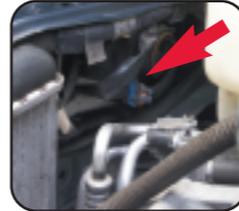
INSTRUCTIONS

REPLACING A HALOGEN HEADLAMP

1 REMOVE THE KEYS FROM THE IGNITION WHEN WORKING ON THE VEHICLE. TURN THE HEADLAMP SWITCH OFF. See **CAUTION** on back panel.

⚠WARNING:

- Halogen bulbs contain pressurized gas and require special handling.
- Halogen bulbs can burst or shatter if they are scratched or dropped.
- Hold the halogen bulb only by its plastic or metal case.
- DO NOT TOUCH the glass part of the halogen bulb with bare hands.
- Always WEAR EYE PROTECTION when handling the halogen bulb.
- The installation of the halogen bulb may require special tools; consult your Toyota Dealer or the Toyota Repair Manual for your vehicle for proper and safe installation tips.



2 OPEN THE HOOD AND UNPLUG THE CONNECTOR WHILE DEPRESSING THE LOCK RELEASE – If the connector is firmly plugged in, loosen by twisting slightly side to side. Some connectors do not have a lock release; simply rotate the connector to remove the entire bulb assembly.



3 TURN THE BULB RETAINING RING COUNTERCLOCKWISE AND REMOVE THE BULB AND RING. On vehicles where the bulb is installed into the connector, simply remove the bulb.

4 WEAR GLOVES AND EYE PROTECTION, WHILE INSTALLING A NEW BULB AND THE RETAINING RING. Align the cutouts of the bulb socket with the protrusions of the headlamp body and insert the bulb into the holder together with the retaining ring and turn the ring clockwise to tighten.



NOTE: Only use a bulb with the same part number and wattage rating. Aiming is not necessary after replacing the bulb. When aiming adjustment is necessary, contact your Toyota dealer. Do not get dirt, grease or fingerprints on the bulb; this can cause the bulb to burst or fail prematurely. Dirt or grease can be removed with rubbing alcohol and a clean cloth or lint-free paper towel. The bulb must be dry before installation.

5 TURN ON LIGHT SWITCH AND CHECK THAT THE HEADLAMP IS ON.

INSTRUCTIONS (continued)

REPLACING A SEALED BEAM HEADLAMP

1 REMOVE THE KEYS FROM THE IGNITION WHEN WORKING ON THE VEHICLE. TURN THE HEADLAMP SWITCH OFF. SEE **CAUTION** ON BACK PANEL.

2 REMOVE THE SEALED BEAM RETAINING RIM. On some models, a retaining rim must be removed to gain access to the headlamp. On other models, the retaining rim is larger and may make up part of the front grille assembly requiring all or part of the grille to be removed.

CAUTION: DO NOT TOUCH the larger screws near the retaining rim. These are the headlamp adjustment screws. Adjustment should only be performed at a state licensed inspection and repair station or your Toyota Dealer.



MODELS WITH CUT-OUTS NEXT TO THE SMALL RETAINING RIM SCREWS:

- Loosen the screws
- Rotate the retaining rim clockwise to align the screw with the cutout
- Pull off the retaining rim



OTHER MODELS:

- Remove the retaining rim screws
- Pull off the retaining rim

3 PULL OUT THE SEALED BEAM AND UNPLUG THE WIRING CONNECTOR – If the connector is firmly plugged in, loosen by twisting slightly from side to side. DO NOT pull on the wires.

4 INSPECT THE WIRING – Check the connector for dirt, corrosion, damage and loose wires.

5 PLUG THE NEW SEALED BEAM INTO THE WIRING CONNECTOR.

INSTRUCTIONS (continued)

6 PLACE THE SEALED BEAM IN POSITION – Be sure that the headlamp is facing upright with the word TOP, which appears on the outer glass lens, in the "up" position. Fit the tabs on the headlamp into the notches in the headlamp mounting assembly.



7 INSTALL THE RETAINING RIM.

FOR MODELS WITH CUTOUTS:

- Align the cutouts with the screws
- Push the rim into place and rotate counterclockwise as far as it will go
- Tighten the SMALL screws

FOR OTHER MODELS:

- Align the screw holes and install screws

8 CHECK THAT THE HEADLAMP AND RIM ARE SECURE.

9 INSTALL RETAINING RIM AROUND THE HEADLAMP ASSEMBLY.

10 TURN ON HEADLAMP SWITCH AND CHECK THAT THE HEADLAMP IS ON AND SHINING IN THE CORRECT DIRECTION.

TROUBLESHOOTING

CONDITION	ACTION
Headlamp does not work, flickers or is dim:	Check that the bulb is correctly seated in the socket. Check that the socket connectors are clean. Check that the wires have not come loose. If problems persist, there could be a fault with the vehicle's wiring or electrical system. Contact your Toyota Dealer Service Department for diagnosis and repair.