

Part 4

IN CASE OF AN EMERGENCY

- If your vehicle will not start
- If your engine stalls while driving
- If your vehicle overheats
- If you have a flat tire
- If your vehicle needs to be towed
- If you cannot shift automatic transmission selector lever
- If you lose your keys

If your vehicle will not start— (a) Simple checks

Before making these checks, make sure you have followed the correct starting procedure given in “How to start the engine” in Part 3 and that you have sufficient fuel.

If the engine is not turning over or is turning over too slowly—

1. Check that the battery terminals are tight and clean.
2. If the battery terminals are O.K., switch on the interior light.
3. If the light is out, dim or goes out when the starter is cranked, the battery is discharged. You may try jump starting. See “(c) Jump starting” for further instructions.

If the light is O.K., but the engine still will not start, it needs adjustment or repair. Call a Toyota dealer or qualified repair shop.

NOTICE

Do not pull- or push-start the vehicle. It may damage the vehicle or cause a collision when the engine starts. Also the three-way catalytic converter may overheat and become a fire hazard.

If the engine turns over at its normal speed but will not start—

1. Check that all the push-on connectors are tight. (For example, connections at the spark plugs, ignition coil and/or distributor)
2. If the connectors are O.K., the engine may be flooded because of repeated cranking. See “(b) Starting a flooded engine” for further instructions.

(b) Starting a flooded engine

If the engine will not start, your engine may be flooded because of repeated cranking.

If this happens, turn the key to "START" with the accelerator pedal held down. Keep the key and accelerator pedal so for 15 seconds and release them. Then try starting the engine with your foot off the accelerator pedal.

If the engine does not start after 15 seconds of cranking, release the key, wait a few minutes and try again.

If the engine still will not start, it needs adjustment or repair. Call a Toyota dealer or qualified repair shop for assistance.

NOTICE

Do not crank for more than 30 seconds at a time. This may overheat the starter and wiring systems.

(c) Jump starting

To avoid serious personal injury and damage to your vehicle which might result from battery explosion, acid burns, electrical burns, or damaged electronic components, these instructions must be followed precisely.

If you are unsure about how to follow this procedure, we strongly recommend that you seek the help of a competent mechanic or towing service.



CAUTION

- **Batteries contain sulfuric acid which is poisonous and corrosive. Wear protective safety glasses when jump starting, and avoid spilling acid on your skin, clothing, or vehicle.**
- **If you should accidentally get acid on yourself or in your eyes, remove any contaminated clothing and flush the affected area with water immediately. Then get immediate medical attention. If possible, continue to apply water with a sponge or cloth while en route to the medical office.**

- **The gas normally produced by a battery will explode if a flame or spark is brought near. Use only standardized jumper cables and do not smoke or light a match while jump starting.**

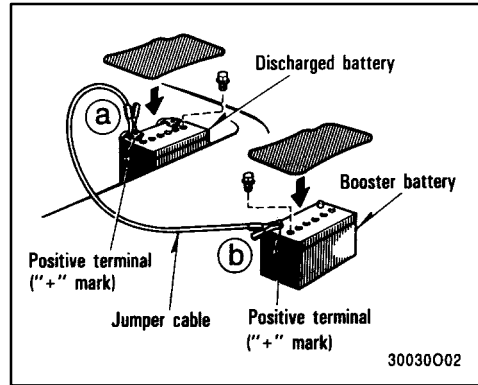
NOTICE

The battery used for boosting must be 12 V. Do not jump start unless you are sure that the booster battery is correct.

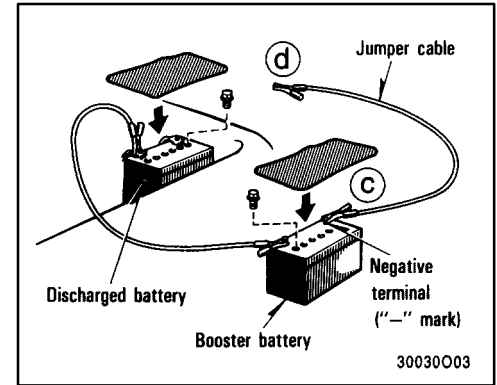
JUMP STARTING PROCEDURE

1. If the booster battery is installed in another vehicle, make sure the vehicles are not touching. Turn off all unnecessary lights and accessories.
2. If required, remove all the vent plugs from the booster and discharged batteries. Lay a cloth over the open vents on the batteries. (This helps reduce the explosion hazard, personal injuries and burns.)

3. If the engine in the vehicle with the booster battery is not running, start it and let it run for a few minutes. During jump starting, run the engine at about 2000 rpm with the accelerator pedal lightly depressed.

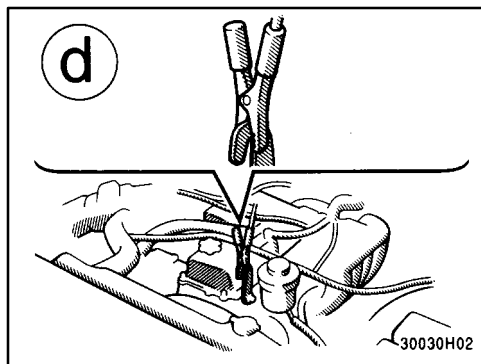


4. Make the cable connection in the order a, b, c, d.
- Connect the clamp of the positive (red) jumper cable to the positive (+) terminal on the discharged battery.
 - Connect the clamp at the other end of the positive (red) jumper cable to the positive (+) terminal on the booster battery.

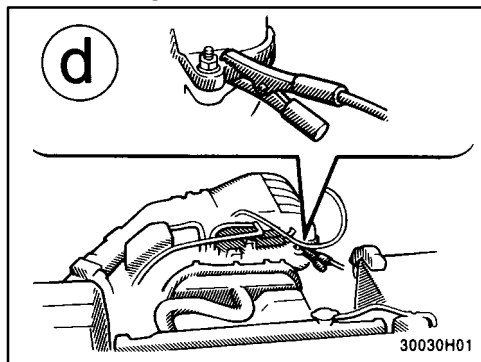


- Connect the clamp of the negative (black) cable to the negative (-) terminal on the booster battery.
- Connect the clamp at the other end of the negative (black) jumper cable to a solid, stationary, unpainted, metallic point of the vehicle with the discharged battery.

The recommended connecting points are shown in the following illustration:



Connecting point for 2RZ-FE and 3RZ-FE engines



Connecting point for 5VZ-FE engine

Do not connect the cable to or near any part that moves when the engine is cranked.



CAUTION

When making the connections, to avoid serious injury, do not lean over the battery or accidentally let the jumper cables or clamps touch anything except the correct battery terminals or the ground.

5. Start your engine in the normal way. After starting, run it at about 2000 rpm for several minutes with the accelerator pedal lightly depressed.
6. Carefully disconnect the cables in the exact reverse order: the negative cable and then the positive cable.
7. Carefully dispose of the battery cover cloths—they may now contain sulfuric acid.
8. If removed, replace all the battery vent plugs.

If the cause of your battery discharging is not apparent (for example, lights left on), you should have it checked.

If your engine stalls while driving

If your engine stalls while driving...

1. Reduce your speed gradually, keeping a straight line. Move cautiously off the road to a safe place.
2. Turn on your emergency flashers.
3. Try starting the engine again.

If the engine will not start, see "If your vehicle will not start".



CAUTION

If the engine is not running, the power assist for the brakes and steering will not work so steering and braking will be much harder than usual.

If your vehicle overheats

If your engine coolant temperature gauge indicates overheating, if you experience a loss of power, or if you hear a loud knocking or pinging noise, the engine has probably overheated. You should follow this procedure...

1. Pull safely off the road, stop the vehicle and turn on your emergency flashers. Put the transmission in "P" (automatic) or neutral (manual) and apply the parking brake. Turn off the air conditioning if it is being used.
2. If coolant or steam is boiling out of the radiator or reservoir, stop the engine. Wait until the steam subsides before opening the hood. If there is no coolant boiling over or steam, leave the engine running.



CAUTION

To help avoid personal injury, keep the hood closed until there is no steam. Escaping steam or coolant is a sign of very high pressure.

3. Visually check to see if the engine drive belt (fan belt) is broken or loose. Look for obvious coolant leaks from the radiator, hoses, and under the vehicle. However, note that water draining from the air conditioning is normal if it has been used.



CAUTION

When the engine is running, keep hands and clothing away from the moving fan and engine drive belts.

4. If the engine drive belt is broken or the coolant is leaking, stop the engine immediately. Call a Toyota dealer for assistance.
5. If the engine drive belt is O.K. and there are no obvious leaks, you may help the engine cool down more quickly by running it at about 1500 rpm for a few minutes with the accelerator pedal lightly depressed.
6. Check the coolant reservoir. If it is dry, add coolant to the reservoir while the engine is running. Fill it about half full.



CAUTION

Do not attempt to remove the radiator cap when the engine and radiator are hot. Serious injury could result from scalding hot fluid and steam blown out under pressure.

7. After the engine coolant temperature has cooled to normal, again check the coolant level in the reservoir. If necessary, bring it up to half full again. Serious coolant loss indicates a leak in the system. You should have it checked as soon as possible at your Toyota dealer.

If you have a flat tire—

1. Reduce your speed gradually, keeping a straight line. Move cautiously off the road to a safe place well away from the traffic. Avoid stopping on the center divider of a highway. Park on a level spot with firm ground.
2. Stop the engine and turn on your emergency flashers.
3. Firmly set the parking brake and put the transmission in "P" (automatic) or reverse (manual).
4. Have everyone get out of the vehicle on the side away from traffic.
5. Read the following instructions thoroughly.



CAUTION

When jacking, be sure to observe the following to reduce the possibility of personal injury:

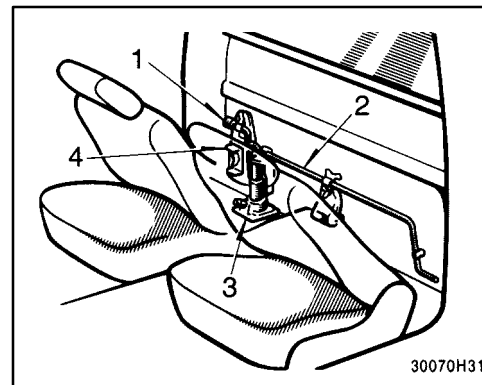
- Follow jacking instructions.
- Do not start or run the engine while your vehicle is supported by a jack.

- **Stop the vehicle at a level place and chock the wheel diagonally opposite to the one being changed. Otherwise, the vehicle will move and possibly cause unexpected accident.**
- **Make sure to set the jack properly in the jack point. Raising the vehicle with jack improperly positioned will damage the vehicle or may allow the vehicle to fall off the jack and cause injury to the person.**
- **Never get under the vehicle when the vehicle is supported by the jack alone.**
- **Use the jack only for lifting your vehicle during wheel changing.**
- **Do not raise the vehicle with someone in the vehicle.**
- **When raising the vehicle, do not put an object on or under the jack.**

NOTICE

Do not continue driving with a deflated tire. Driving even a short distance can damage a tire beyond repair.

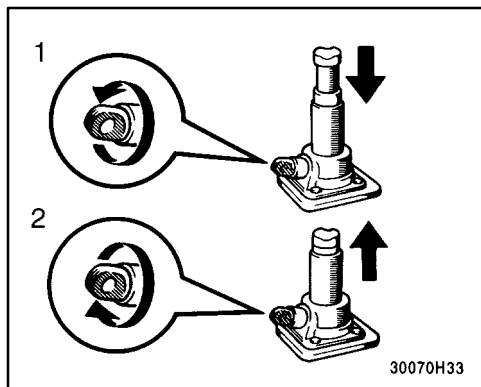
—Required tools and spare tire (normal cab models)



1. Get the required tools and spare tire.

- 1 Wheel nut wrench
- 2 Jack handle
- 3 Jack
- 4 Wheel ornament replacer (with free-wheeling hubs)

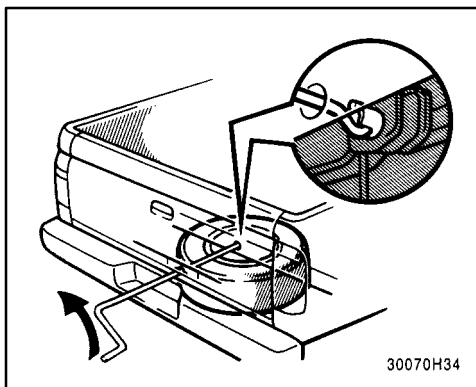
To prepare yourself for an emergency, you should familiarize yourself with the use of the jack, each of the tools and their storage locations.



Turn the jack joint by hand.

To remove: turn the joint in direction 1 until the jack is free.

To store: turn the joint in direction 2 until the jack is firmly secured to prevent it flying forward during a collision or sudden braking.

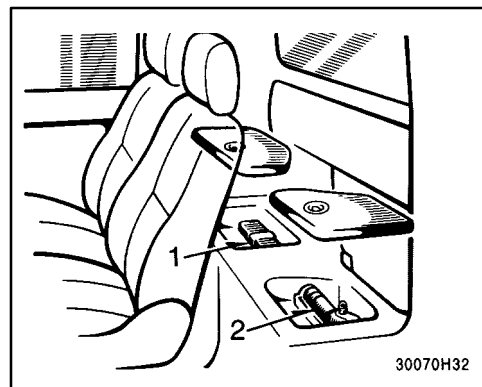


To remove the spare tire:

1. Insert the end of the jack handle into the lowering screw and turn it counter-clockwise.
2. After the tire is lowered completely to the ground, remove the holding bracket.

When storing the spare tire, put it in place with the outer side of the wheel facing up. Then secure the tire taking care that the tire goes straight up without catching on any other part, to prevent it from flying forward during a collision or sudden braking.

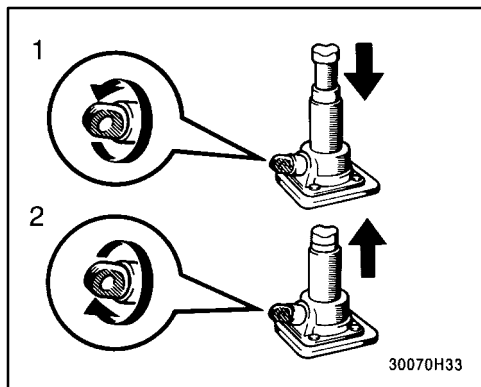
—Required tools and spare tire (Xtra-cab models)



1. Get the required tools and spare tire.

- 1 Tool bag
- 2 Jack

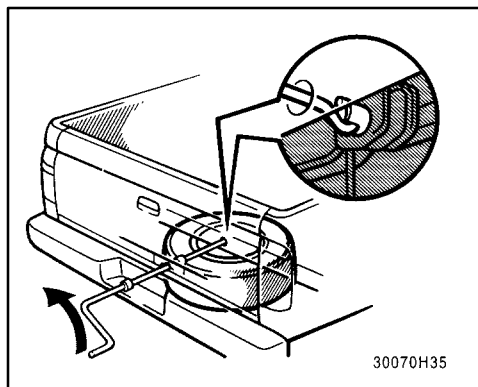
To prepare yourself for an emergency, you should familiarize yourself with the use of the jack, each of the tools and their storage locations.



Turn the jack joint by hand.

To remove: Turn the joint in direction 1 until the jack is free.

To store: Turn the joint in direction 2 until the jack is firmly secured to prevent it flying forward during a collision or sudden braking.

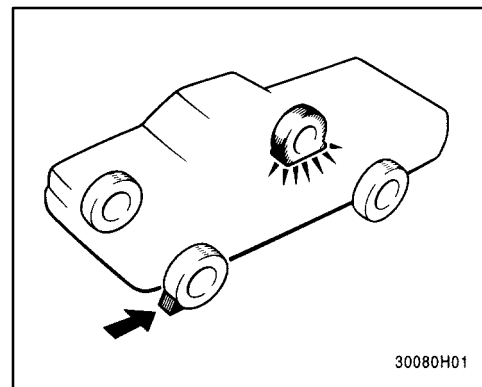


To remove the spare tire:

1. Insert the end of the jack handle extension into the lowering screw and turn it counterclockwise with the handle, making sure the handle remains firmly fitted onto the jack handle extension.
2. After the tire is lowered completely to the ground, remove the holding bracket.

When storing the spare tire, put it in place with the outer side of the wheel facing up. Then secure the tire, taking care that the tire goes straight up without catching on any other part, to prevent it from flying forward during a collision or sudden braking.

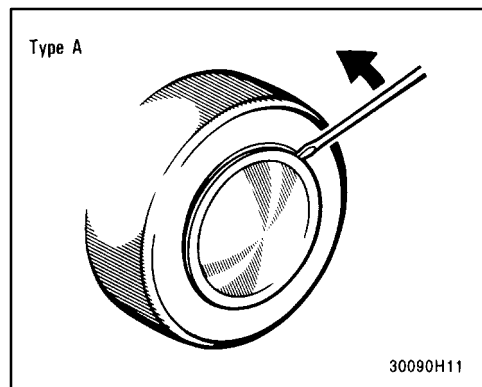
—Blocking the wheel



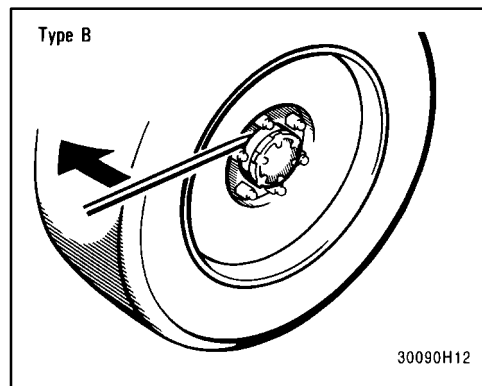
2. **Block the wheel diagonally opposite the flat tire to keep the vehicle from rolling when it is jacked up.**

When blocking the wheel, place a wheel block from the front for the front wheels or from the rear for the rear wheels.

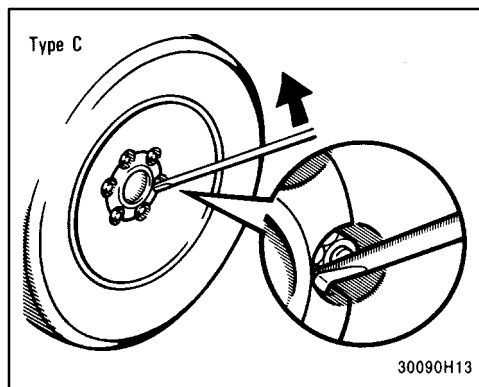
—Removing wheel ornament



Steel wheels



Aluminum wheels



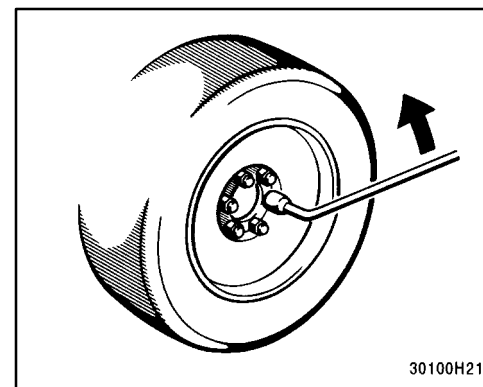
3. Remove the wheel ornament.

Pry off the wheel ornament, using the beveled end of the wheel nut wrench as shown.



Do not try to pull the ornament by hand. Take due care in handling the ornament to avoid unexpected personal injury.

—Loosening wheel nuts



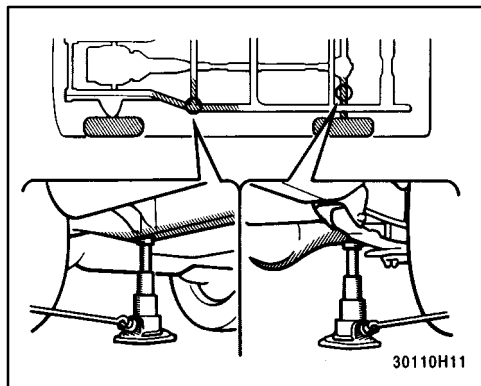
4. Loosen all the wheel nuts.

Always loosen the wheel nuts before raising the vehicle.

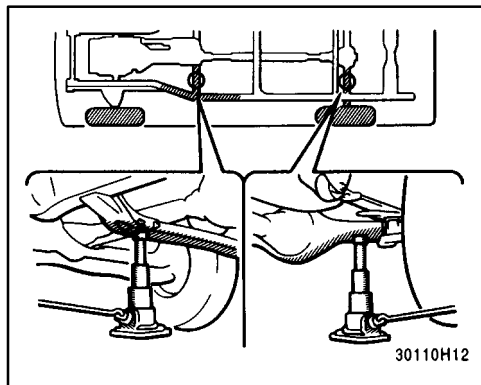
The nuts turn counterclockwise to loosen. To get maximum leverage, fit the wrench to the nut so that the handle is on the right side, as shown above. Grab the wrench near the end of the handle and pull up on the handle. Be careful that the wrench does not slip off the nut.

Do not remove the nuts yet—just unscrew them about one-half turn.

—Positioning the jack



Two-wheel drive models



Four-wheel drive models

5. Position the jack at the correct jack points as shown.

Make sure the jack is positioned on a level and solid place.

JACK POINTS:

Two-wheel drive models

Front—Under the frame side rail

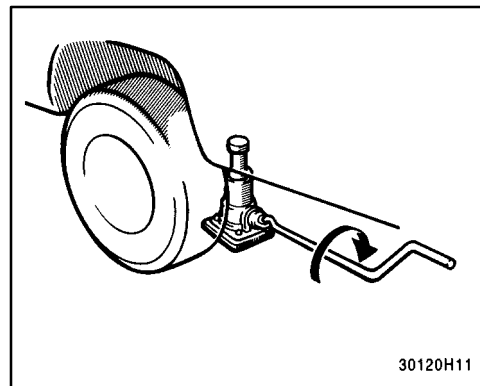
Rear—Under the rear axle housing

Four-wheel drive models

Front—Under the front suspension cross member

Rear—Under the rear axle housing

—Raising your vehicle



6. After making sure that no one is in the vehicle, raise it high enough so that the spare tire can be installed.

Remember you will need more ground clearance when putting in the spare tire than when removing the flat tire.

Normal cab models—To raise the vehicle, insert the jack handle into the jack (it is a loose fit) and turn it clockwise. As the jack touches the vehicle and begins to lift, double-check that it is properly positioned.

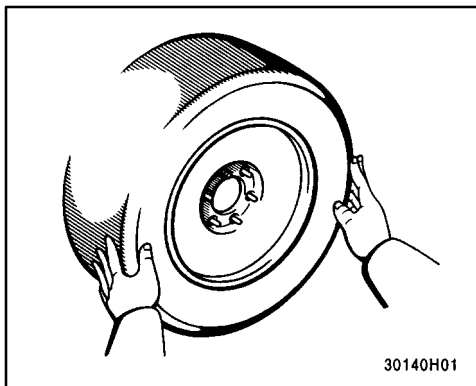
Xtra-cab models—To raise the vehicle, insert the jack handle extension into the jack (it is a loose fit) and turn it clockwise with the handle, making sure the handle remains firmly fitted into the jack handle extension. As the jack touches the vehicle and begins to lift, double-check that it is properly positioned.



CAUTION

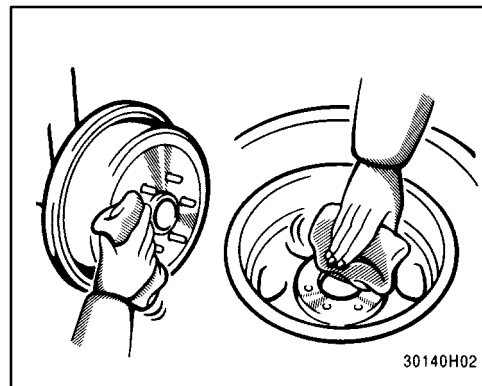
Never get under the vehicle when the vehicle is supported by the jack alone.

—Changing wheels



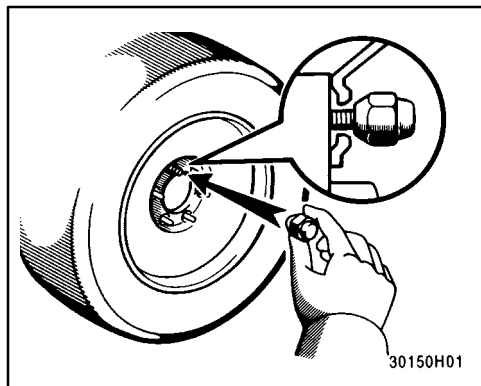
7. Remove the wheel nuts and change tires.

Lift the flat tire straight off and put it aside. Roll the spare wheel into position and align the holes in the wheel with the bolts. Then lift up the wheel and get at least the top bolt started through its hole. Wiggle the tire and press it back over the other bolts.



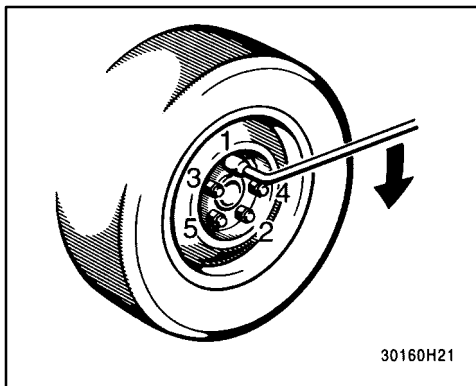
Before putting on wheels, remove any corrosion on the mounting surfaces with a wire brush or such. Installation of wheels without good metal-to-metal contact at the mounting surface can cause wheel nuts to loosen and eventually cause a wheel to come off while driving. Therefore after the first 1600 km (1000 miles), check to see that the wheel nuts are tight.

—Reinstalling wheel nuts

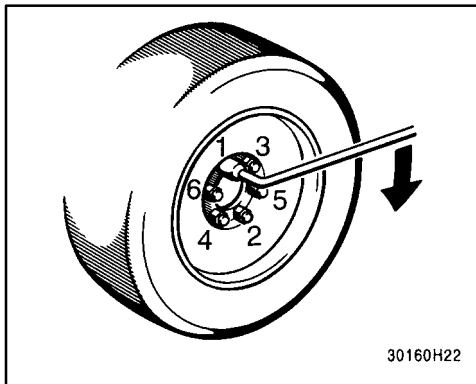


8. Reinstall all the wheel nuts finger tight.

Reinstall the wheel nuts (tapered end inward) and tighten them as much as you can by hand. Press back on the tire back and see if you can tighten them more.



Two-wheel drive models



Four-wheel drive models

—Lowering your vehicle

9. Lower the vehicle completely and tighten the wheel nuts.

Turn the jack handle counterclockwise to lower the vehicle.

Xtra-cab models—Turn the jack handle extension counterclockwise with handle to lower the vehicle, making sure the handle remains firmly fitted onto the jack handle extension.

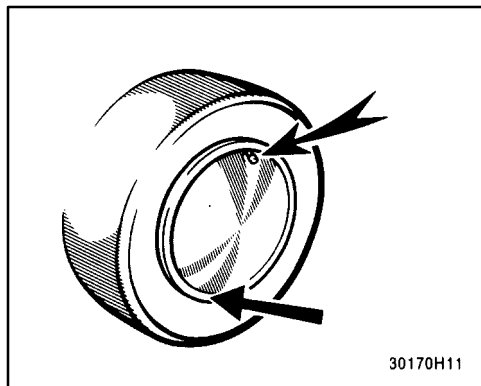
Use only the wheel nut wrench to tighten the nuts. Do not use other tools or any additional leverage other than your hands, such as a hammer, pipe or your foot. Make sure the wrench is securely engaged over the nut.

Tighten each nut a little at a time in the order shown. Repeat the process until all the nuts are tight.



When lowering the vehicle, make sure all portions of your body and all other persons around will not be injured as the vehicle is lowered to the ground.

—Reinstalling wheel ornament



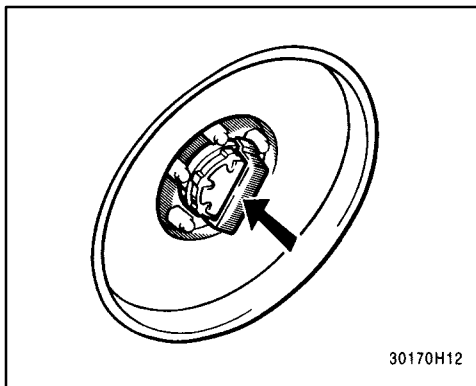
10. Reinstall the wheel ornament.

1. Put the wheel ornament into position. On some models, align the cutout of the wheel ornament with the valve stem as shown.
2. Then tap it firmly with the side or heel of your hand to snap it into place.



CAUTION

Take due care in handling the ornament to avoid unexpected personal injury.



On steel wheel ornaments for free-wheeling hubs, place the wheel ornament replacer over to snap the ornament into place. Be careful not to slip off the replacer.

—After changing wheels

11. Check the air pressure of the replaced tire.

Adjust the air pressure to the specification designated in Part 8. If the pressure is lower, drive slowly to the nearest service station and fill to the correct pressure.

Do not forget to reinstall the tire inflation valve cap as dirt and moisture could get into the valve core and possibly cause air leakage. If the cap is missing, have a new one put on as soon as possible.

12. Restow all the tools, jack and flat tire securely.

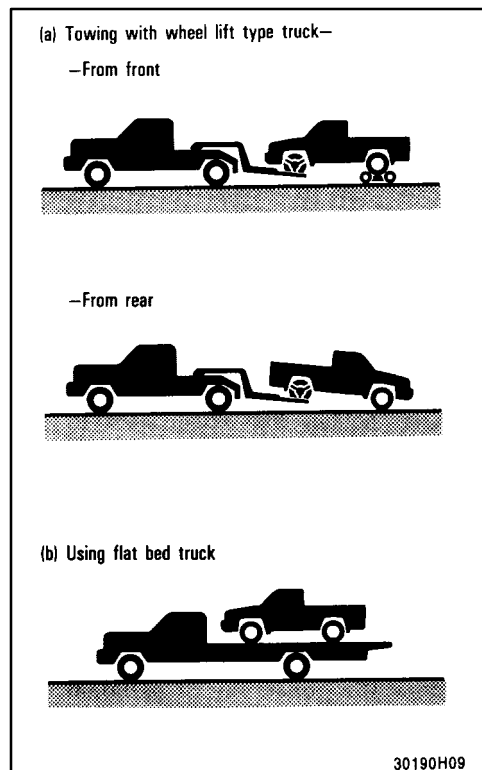
As soon as possible after changing wheels, tighten the wheel nuts to the torque specified in Part 8 with a torque wrench, have a technician repair the flat tire.



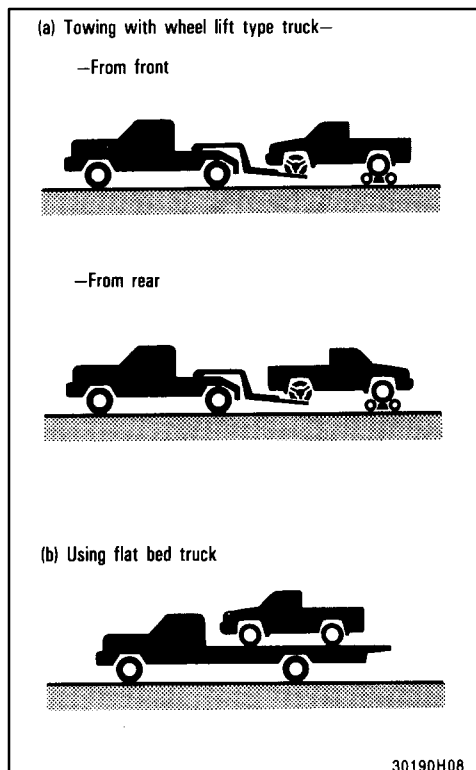
CAUTION

Before driving, make sure all the tools, jack and flat tire are securely in place in their storage location to reduce the possibility of personal injury during a collision or sudden braking.

If your vehicle needs to be towed—



Two-wheel drive models



Four-wheel drive models

If towing is necessary, we recommend you to have it done by your Toyota dealer or a commercial tow truck service. In consultation with them, have your vehicle towed using either (a) or (b).

Only when you cannot receive a towing service from a Toyota dealer or commercial tow truck service, tow your vehicle carefully in accordance with the instructions given in “—Emergency towing” in this part.

Proper equipment will help ensure that your vehicle is not damaged while being towed. Commercial operators are generally aware of the state/provincial and local laws pertaining to towing.

Your vehicle can be damaged if it is towed incorrectly. Although most operators know the correct procedure, it is possible to make a mistake. To avoid damage to your vehicle, make sure the following few precautions are observed. If necessary, show this page to the tow truck driver.

TOWING PRECAUTIONS:

Use a safety chain system for all towing, and abide by the state/provincial and local laws. The wheels and axle on the ground must be in good condition. If they are damaged, use a towing dolly.

Two-wheel drive models—

(a) Towing with wheel lift type truck

From front—

- Manual transmission

We recommend using a towing dolly under the rear wheels. If you do not use a towing dolly, release the parking brake and put the transmission in neutral.

- Automatic transmission:

Use a towing dolly under the rear wheels.

NOTICE

Never tow a vehicle with an automatic transmission from the rear with the front wheels on the ground, as this may cause serious damage to the transmission.

From rear—Place the ignition key in the “ACC” position.

NOTICE

◆ *When lifting wheels, take care to ensure adequate ground clearance for towing at the opposite end of the raised vehicle. Otherwise, the bumper and/or underbody of the towed vehicle will be damaged during towing.*

◆ *Do not tow with the key removed or in the “LOCK” position, as the steering lock mechanism is not strong enough to hold the front wheels straight while towing.*

(b) Using flat bed truck

Four-wheel drive models—

(a) Towing with wheel lift type truck

From front—

- Manual transmission:

We recommend using a towing dolly under the rear wheels. If you do not use a towing dolly, release the parking brake, put the transmission in neutral and set the transfer in “H2” mode.

- Automatic transmission:

Use a towing dolly under the rear wheels.

NOTICE

Never tow a vehicle with an automatic transmission from the rear with the front wheels on the ground, as this may cause serious damage to the transmission.

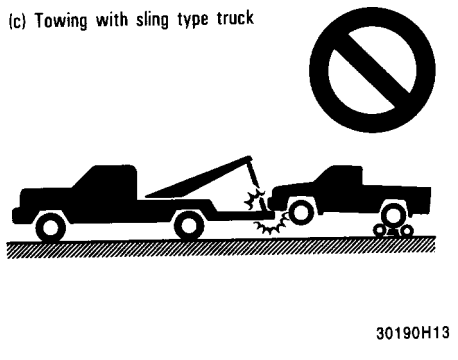
From rear—We recommend using a tow dolly under the front wheels. If you do not use a towing dolly, place the ignition key in the “ACC” position, put the transmission in neutral and set the transfer in “H2” mode. Disengage both free-wheeling hubs if so equipped.

NOTICE

Do not tow with the key removed or in the “LOCK” position when towing from the rear without a towing dolly. The steering lock mechanism is not strong enough to hold the front wheels straight.

(b) Using flat bed truck

(c) Towing with sling type truck



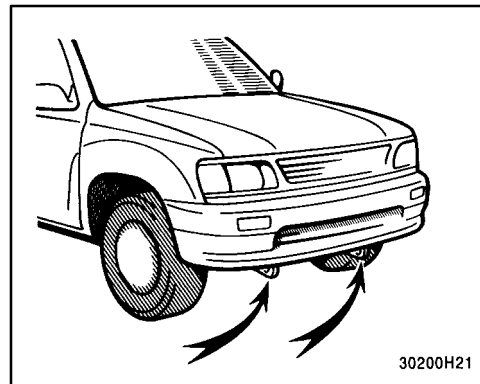
All models—

(c) Towing with sling type truck

NOTICE

Do not tow with sling type truck, either from the front or rear. This may cause body damage.

**—Emergency towing
(two-wheel drive models)**



If towing is necessary, we recommend you to have it done by your Toyota dealer or a commercial tow truck service.

If towing service is not available in an emergency, your vehicle may be temporarily towed by a cable or chain secured to one of the emergency towing eyelets under the front of the vehicle. Use extreme caution when towing the vehicle.

A driver must be in the vehicle to steer it and operate the brakes.

Towing in this manner may be done only on hard-surfaced roads for a short distance and at low speeds. Also, the wheels, axles, drive train, steering and brakes must all be in good condition.



CAUTION

Use extreme caution when towing vehicles. Avoid sudden starts or erratic driving maneuvers which would place excessive stress on the emergency towing eyelet and towing cable or chain. The eyelet and towing cable or chain may break and cause serious injury or damage.

NOTICE

Use only a cable or chain specifically intended for use in towing vehicles. Securely fasten the cable or chain to the towing eyelet provided.

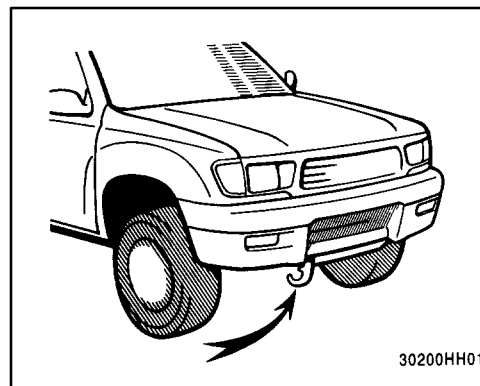
Before towing, release the parking brake and put the transmission in neutral (manual) or "N" (automatic). The key must be in "ACC" (engine off) or "ON" (engine running).



CAUTION

If the engine is not running, the power assist for the brakes and steering will not work so steering and braking will be much harder than usual.

—Emergency towing (four-wheel drive models)



If towing is necessary, we recommend you to have it done by your Toyota dealer or a commercial tow truck service.

If towing service is not available in an emergency, your vehicle may be temporarily towed by a cable or chain secured to the emergency towing hook under the front of the vehicle. Use extreme caution when towing the vehicle.

A driver must be in the vehicle to steer it and operate the brakes.

Towing in this manner may be done only on hard-surfaced roads for a short distance and at low speeds. Also, the wheels, axles, drive train, steering and brakes must all be in good condition.



CAUTION

Use extreme caution when towing vehicles. Avoid sudden starts or erratic driving maneuvers which would place excessive stress on the emergency towing hook and towing cable or chain. The hook and towing cable or chain may break and cause serious injury or damage.

NOTICE

Use only a cable or chain specifically intended for use in towing vehicles. Securely fasten the cable or chain to the towing hook provided.

Before towing, release the parking brake, put the transmission in neutral (manual) or "N" (automatic) and set the transfer in "H2" mode. The key must be in "ACC" (engine off) or "ON" (engine running).



CAUTION

If the engine is not running, the power assist for the brakes and steering will not work so steering and braking will be much harder than usual.

—Emergency towing hook precautions (four-wheel drive models)

- Before emergency towing, check that the hook is not broken or damaged and that the installation bolts are not loose.
- Fasten the towing cable or chain securely to the hook.
- Do not jerk the hook. Apply steady and even force.
- To avoid damaging the hook, do not pull from the side or at a vertical angle. Always pull straight ahead.



CAUTION

If the emergency towing hook is used to get out when your vehicle becomes stuck in the mud, sand or other condition from which the vehicle can not be driven out under its own power, make sure to observe the precautions mentioned below. Otherwise, excessive stress will be put on the hook and the towing bacle or chain may break, causing serious injury or damage.

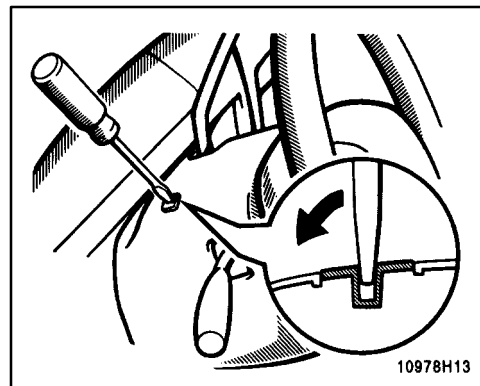
- If the towing vehicle can hardly move, do not forcibly continue the towing. Contact your Toyota dealer or a commercial tow truck service for assistance.
- Tow the vehicle as straight ahead as possible.
- Keep away from the vehicle during towing.

—Tips for towing a stuck vehicle (four-wheel drive models)

The following methods are effective to use when your vehicle is stuck in the mud, sand or other condition from which the vehicle cannot be driven out under its own power. Use extreme caution when towing the vehicle. In addition, keep away from the vehicles and towing cable or chain when towing.

- Remove the sand and soil in the front and the back of the tires.
- Place stones or wood under the tires.

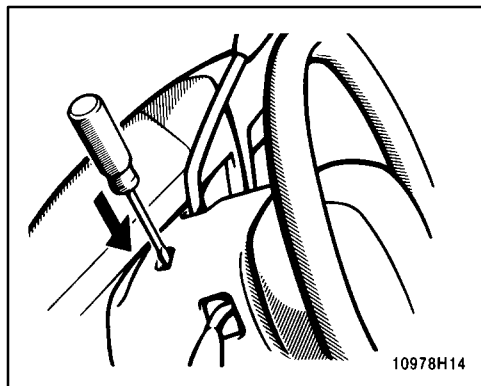
If you cannot shift automatic transmission selector lever (column shift)



If you cannot shift the selector lever out of “P” position to other positions even though the brake pedal is depressed, use the shift lock override button as follows:

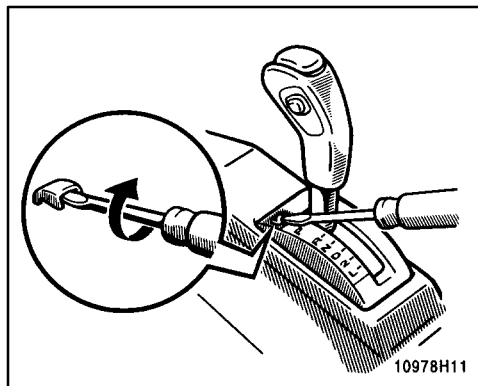
1. Turn the ignition key to “LOCK” position. Make sure the parking brake is set.
2. Pry up the cover with a flat-bladed screwdriver or equivalent.

If you cannot shift automatic transmission selector lever (floor shift)



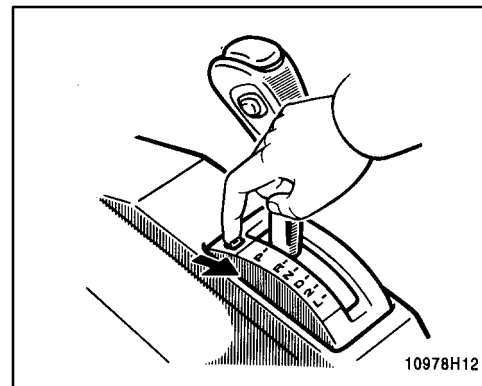
3. Insert the screwdriver or equivalent into the hole to push up the shift lock override button. You can shift out of "P" position only while pushing the button.
4. Shift into "N" position.
5. Insert the cover.
6. Start the engine. For your safety, keep the brake pedal depressed.

Be sure to have the system checked by your Toyota dealer as soon as possible.



If you cannot shift the selector lever out of "P" position to other positions even though the brake pedal is depressed, use the shift lock override button as follows:

1. Turn the ignition key to "LOCK" position. Make sure the parking brake is set.
2. Pry up the cover with a flat-bladed screwdriver or equivalent.



3. Insert your finger into the hole to move the shift lock override lever backward. You can shift out of "P" position only while holding back the lever.
4. Shift into "N" position.
5. Insert the cover.
6. Start the engine. For your safety, keep the brake pedal depressed.

Be sure to have the system checked by your Toyota dealer as soon as possible.

If you lose your keys

Many Toyota dealers can make a new key if you can give them the key number.

See the suggestion given in “Keys” in Chapter 1-2.

If your keys are locked in the vehicle and you cannot get a duplicate, many Toyota dealers can still open the door for you, using their special tools. If you must break a window to get in, we suggest breaking the smallest side window because it is the least expensive to replace. Be extremely cautious to avoid cuts from the glass.

