

Shifting to / from H2, H4, L4

Shifting from H2 to H4

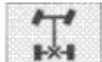
Reduce vehicle speed to less than 50 mph (80 km/h). Shift the front-wheel drive control lever to H4. The four-wheel drive indicator will turn on.

Shifting from H4 to H2

Shift the front-wheel drive control lever to H2. This can be done at any speed. The four-wheel drive indicator will go off.

Shifting between H4 and L4

Stop the vehicle completely. Shift the shift lever to N. Shift the front-wheel drive control lever to L4 or H4. The low speed four-wheel drive indicator will turn on (L4) or go off (H4).

System	Indicators
Hi 4WD (H4)	
Low 4WD (L4)	 
Active Traction Control (A-TRAC)	  flashes
Crawl Control	  flashes
Multi-Terrain	
Rear Diff Lock	
Traction Control (TRAC)	- o No ON indicator - o When off: 
Vehicle Stability Control (VSC)	- o No ON indicator - o When active:  flashing +buzzer - o When OFF: 

Toyota 4Runner Trail Off-Road Systems

A brief how-to and use cases for ATRAC, Crawl Control, Terrain Select, and Locking Differential



4RUNNER

ATRAC

Four-wheel traction control, called A-TRAC, to help in slippery conditions. A-TRAC uses selective braking to route power to the wheels (or wheel) that have road grip.

To engage:

- Move from D to Neutral
- Switch to 4Lo and wait for the vehicle to lock in.
- Press ATRAC button.
- Look for instrument indicator light.

When to use:

- Light/Med hill climbs with loose dirt or rock that would cause tire slippage.

Locking Rear Differential

To engage:

- Move from D to Neutral
- Switch to 4Lo and wait for the vehicle to lock in.
- Press diff lock button
- Look for instrument indicator light.

When to use:

- Best proactive traction control system. Lock before you get to obstacle and before creating wheel spin. Especially if you will get some axle articulation.
- ATRAC and rear locker are a good combo - ATRAC handles front wheel traction and the rear diff lock keeps power split between the two rear wheels.

Crawl Control

Modulates throttle and brake --all you do is steer. Up or down hill, forward and reverse.

The Crawl Control system of the Toyota 4Runner adjusts the power and braking of each wheel individually. It gathers information from numerous sensors around the vehicle and sends that information to the command center which then adjusts speed and braking. Since the vehicle crawls, all four wheels are typically in motion, but the Crawl Control system can determine when a particular wheel needs to be stopped. Again, when it is in operation, all you have to do is steer.

When Crawl Control is engaged, **it lasts for a period of 12 minutes**. During those 12 minutes you are able to **override the system by simply hitting your brake pedal or accelerator**. As soon as you hit either of the pedals, the 4Runner will respond, **and as soon as you remove your foot, the vehicle will instantly return** back to the crawl mode.

To engage:

- Move from D to Neutral
- Switch to 4Lo and wait for the vehicle to lock in.
- Switch to D or R
- Turn on Crawl — press knob
- Look for instrument indicator light.
- Turn dial to select speed (5 settings)
 - each setting corresponds to approximately **1 Kph**
- Let foot off the brake

Terrain Select

Selectable ATRAC basically. There are 4 modes: mud/sand/snow, loose rock, mogul, rock. The system will be more and more intrusive as you move through the modes.

To engage:

- Move from D to Neutral
- Switch to 4Lo and wait for the vehicle to lock in. Can be in 4Hi for #1 mud/sand/snow.
- Turn on Terrain select—press knob
- Turn dial to desired terrain option

The following table shows some typical terrains and the recommended Multi-terrain Select modes.

Mode Road condition	ROCK	MOGUL	LOOSE ROCK	MUD & SAND
Rock	★			
Mogul		★		
Bump, groove		★		
Slope/ V-ditch		★		
Uphill/ downhill		★		
Riverbed			★	
Gravel			★	
Bush			★	
Deep snow				★
Sand				★
Mud				★
Dirt				★

- **Multi-terrain Select can be activated when**
- Vehicle speed is approximately 7 mph (12 km/h) or less.
 - MUD & SAND: The front-wheel drive control lever is in L4 or H4.
LOOSE ROCK, MOGUL and ROCK: The front-wheel drive control lever is in L4.
 - Crawl Control is not operating.