

Technical Sales Support

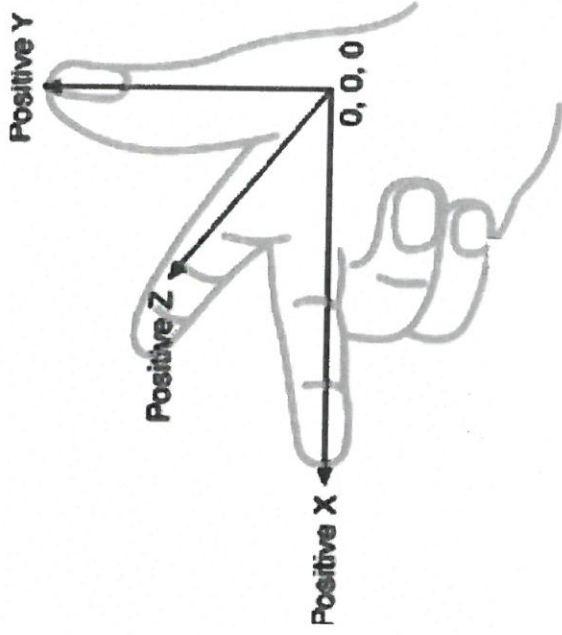


# Shifter Stalk Controls



Drive Direction  
D- Drive Forward  
N- Neutral  
R- Reverse

Engine Brake



## Dash Display: ICU4Me

- Updated instrument cluster for all Detroit Transmission equipped vehicles
- Provides vehicle operator with visual display dedicated to Powertrain





## Starting Vehicle with DT12 Transmission and Gear Selection

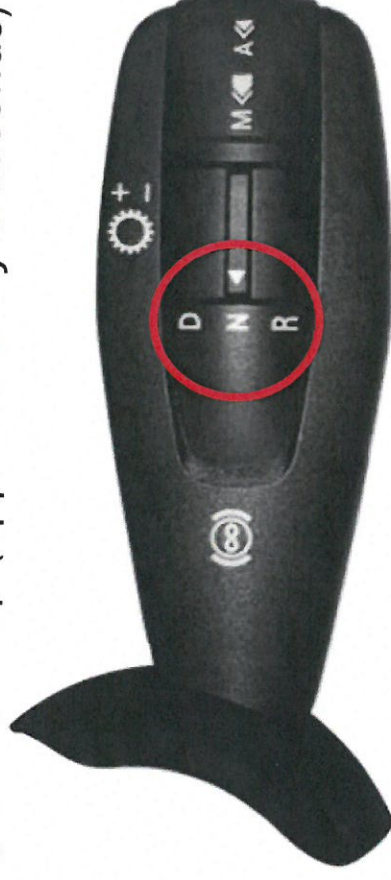
### Starting Vehicle

Make sure battery disconnect switch is **ON** (if vehicle is equipped)

Make sure the Shifter Stalk is on the **NEUTRAL** position

Allow for dashboard gauges to sweep (approximately 8 seconds)

Start vehicle



### Gear Selection

The Drive Direction Gear Switch starts in the center position in “Neutral”

Rotate the Drive Direction Gear Switch Away from Driver to Put in “Drive”

Rotate Switch backwards towards the driver to put in “Reverse”



## eCoast

### What is it

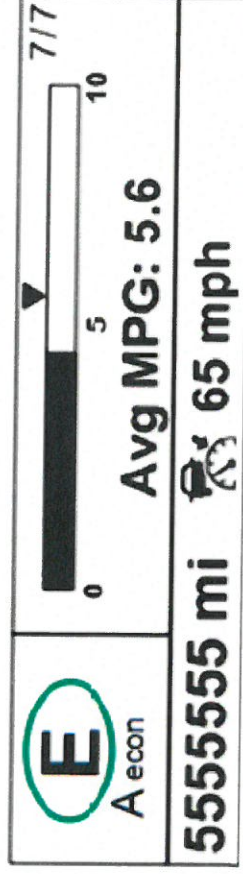
When coasting down grades or reducing speed, the eCoast function of the DT transmission opens the clutch and shifts into neutral

### When eCoast will be enabled

- Minimum Vehicle Speed 22mph or 35km/h
- Less than 3.5% downward slope
- Engine Speed less than 1600 rpm
- No accelerator pedal, brake pedal, or engine retarder actuation
- Minimum estimated time spent in eCoast: 5 seconds

### Benefits

- Disengaging the engine saves fuel
- Vehicle momentum is preserved
- Exhaust temperature is preserved, reducing DPF regenerations





## Creep Mode

### What is Creep Mode

The Creep Mode of the transmission simulates a torque converter in an automatic transmission to improve low speed maneuverability for parking, docking, heavy traffic, or other low speed situations.

### How To Use Creep Mode:

#### Enable Creep Mode

- From a standstill, release brake pedal and gently press accelerator and then release to start “creep”. This will allow clutch to stay partially closed (slip) to creep along.

#### Disable Creep Mode

- Apply the service brake
- If Creep mode becomes active and cannot move the vehicle, creep mode will disable after 4 seconds
- If wheel slip is detected, creep mode will disable

#### Re-enable Creep Mode (Once initial enable conditions are met)

- Release foot from Brake pedal (without depressing accelerator pedal)

#### Disable Creep Mode (Until initial enable conditions are met)

- Apply Park Brake
- Shift into Neutral
- Ignition Cycle



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## Skip Shift

### **What is Skip Shift**

The DT12 can skip unnecessary gears while under low loads or running bobtail

### **How Skip Shift works**

The transmission is constantly monitoring load and road grade inputs to determine what gear would be the most efficient selection based on driving conditions

### **Benefits**

Ability to run through lower gears faster to achieve cruising speed sooner

Ability to choose appropriate start gear based on load and grade inputs

Reduced gear steps keep engine in sweet spot, increasing efficiency

Less shifting with light loads creates smoother driving and increased acceleration



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## Additional Features

### **Hill Start Aid (HSA)**

Prevents roll back after standing still on a hill by engaging the brakes after the driver lets go to give enough time to accelerate

### **Auto Neutral**

When the parking brake is engaged or the vehicle is shut down, the transmission electronically commands the neutral gear if not already selected by driver