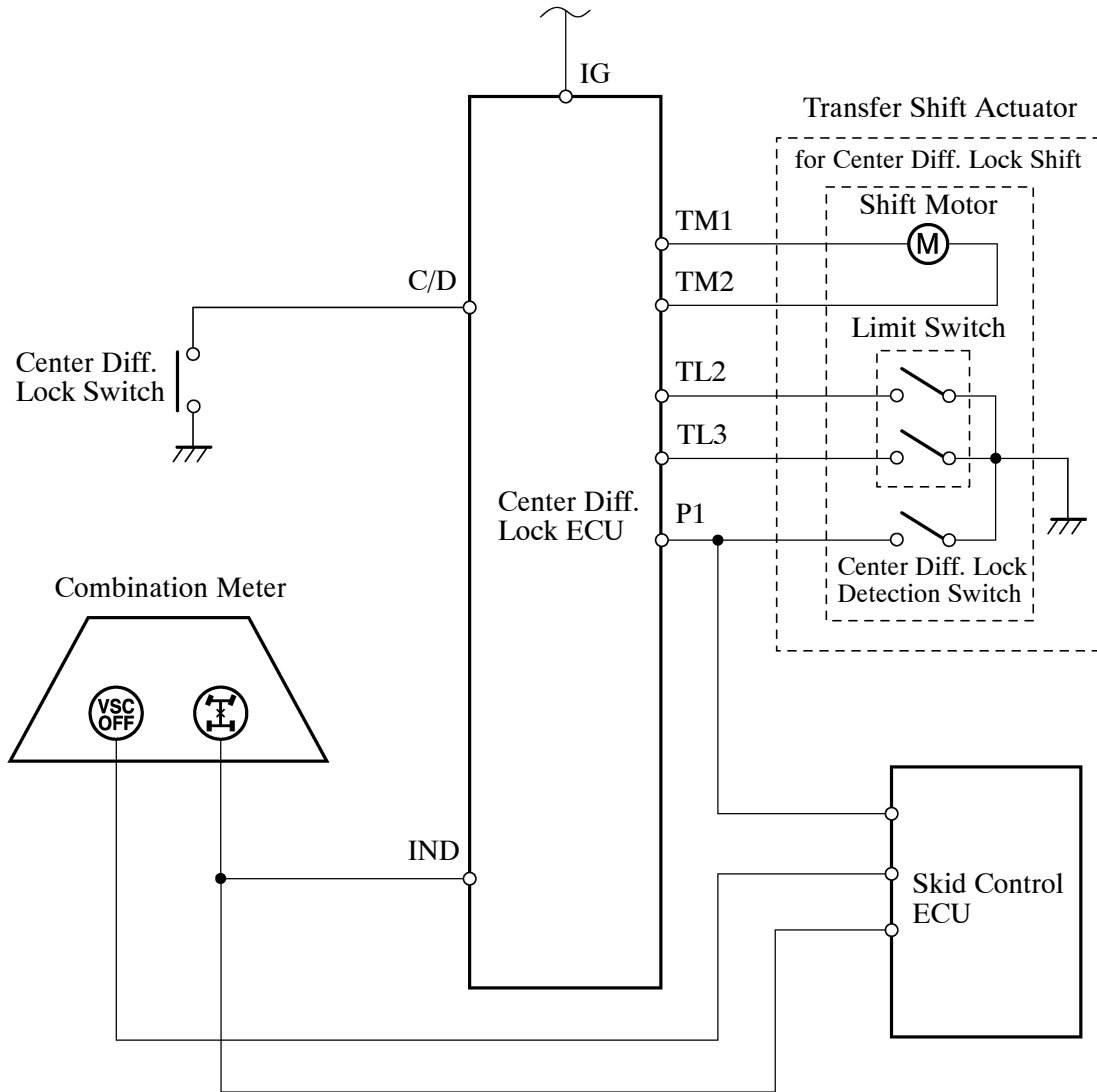


## ■ CENTER DIFFERENTIAL LOCK SYSTEM (Only for VF4BM Transfer)

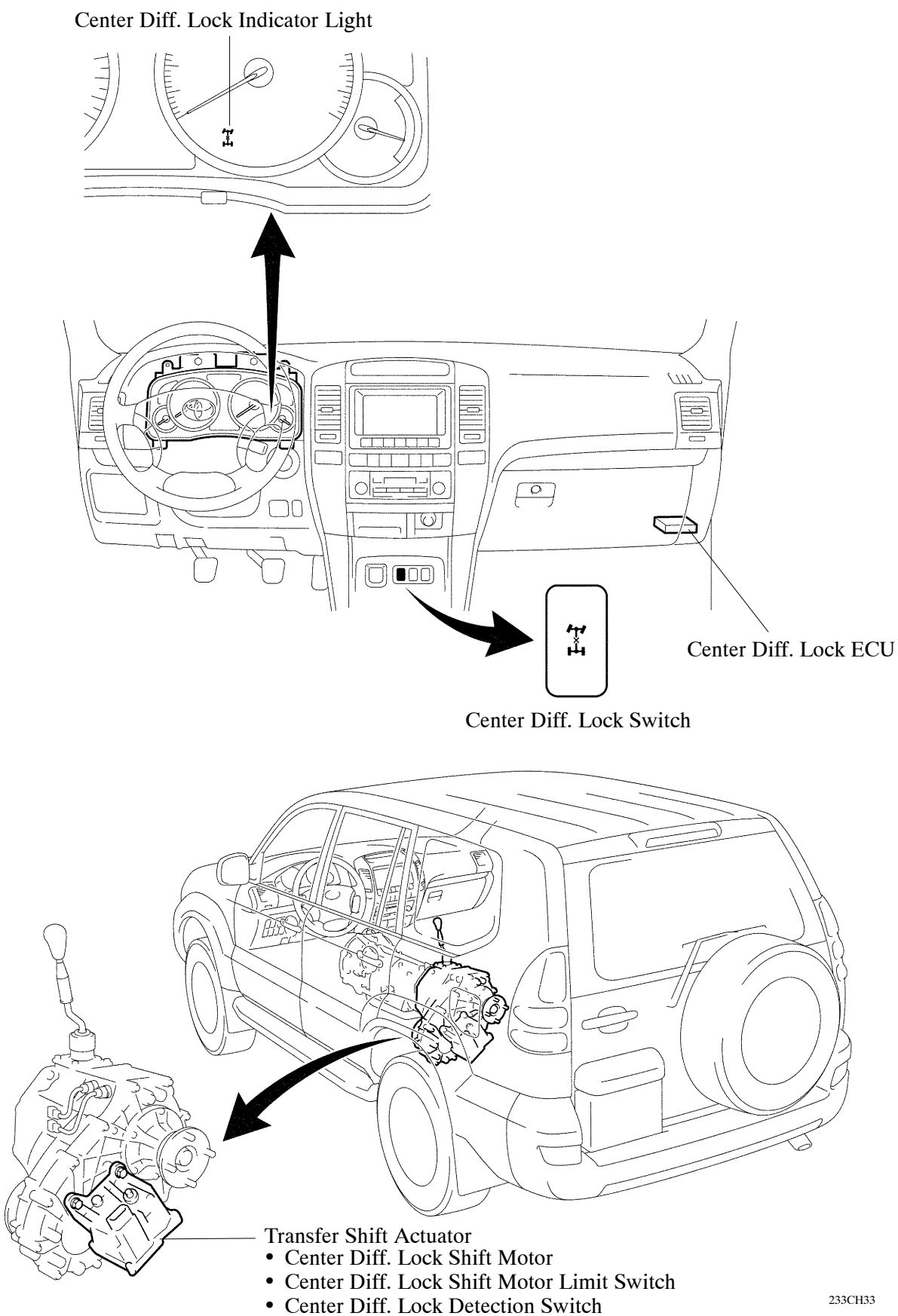
### 1. General

On the VF4BM transfer, the center diff. lock switching is effected by the center differential lock switch operation. In accordance with the center differential lock switch signals, the center differential lock ECU actuates the center differential lock shift motor in order to lock the center differential.

#### ► Wiring Diagram ◀



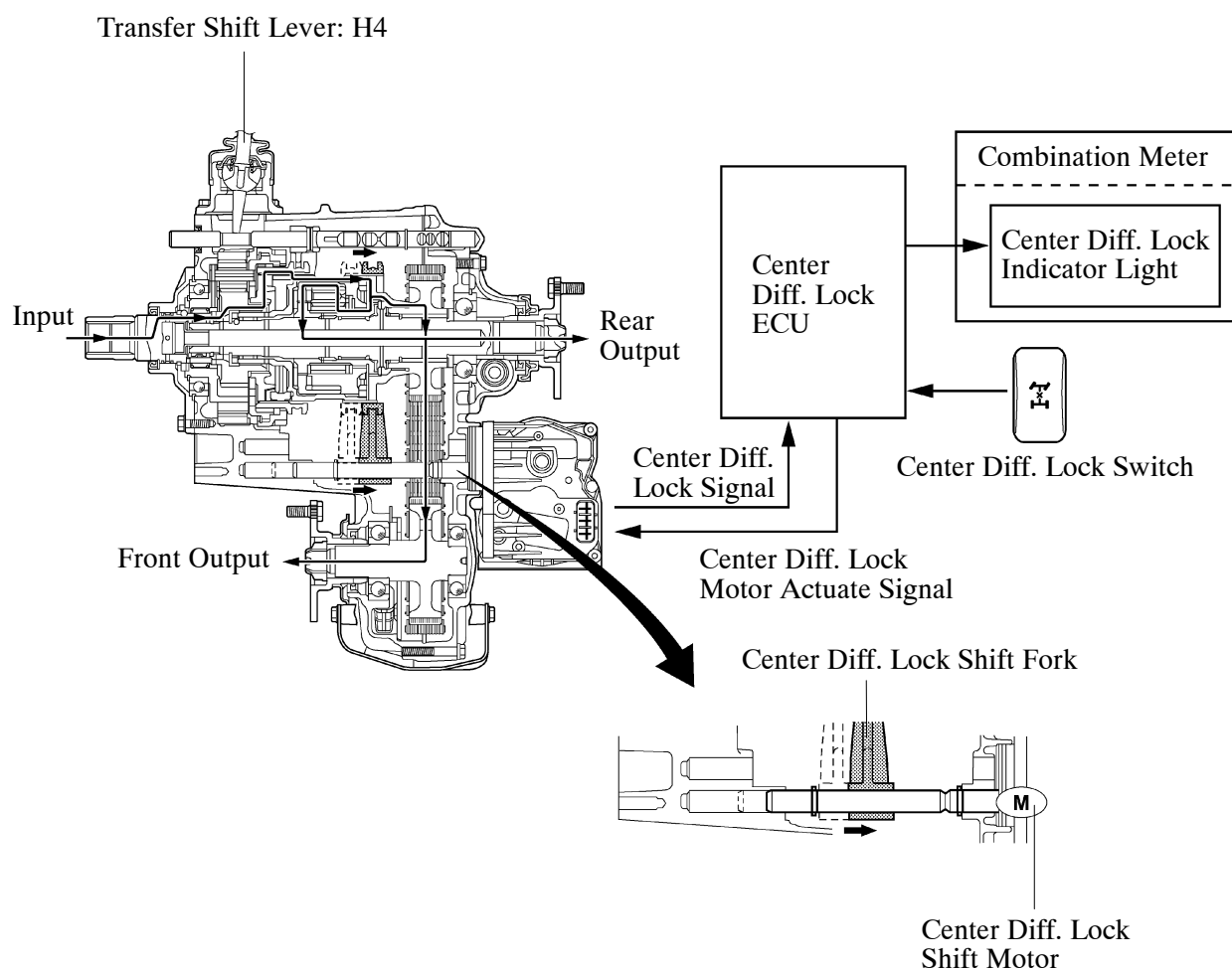
## 2. Layout of Main Component



### 3. System Operation

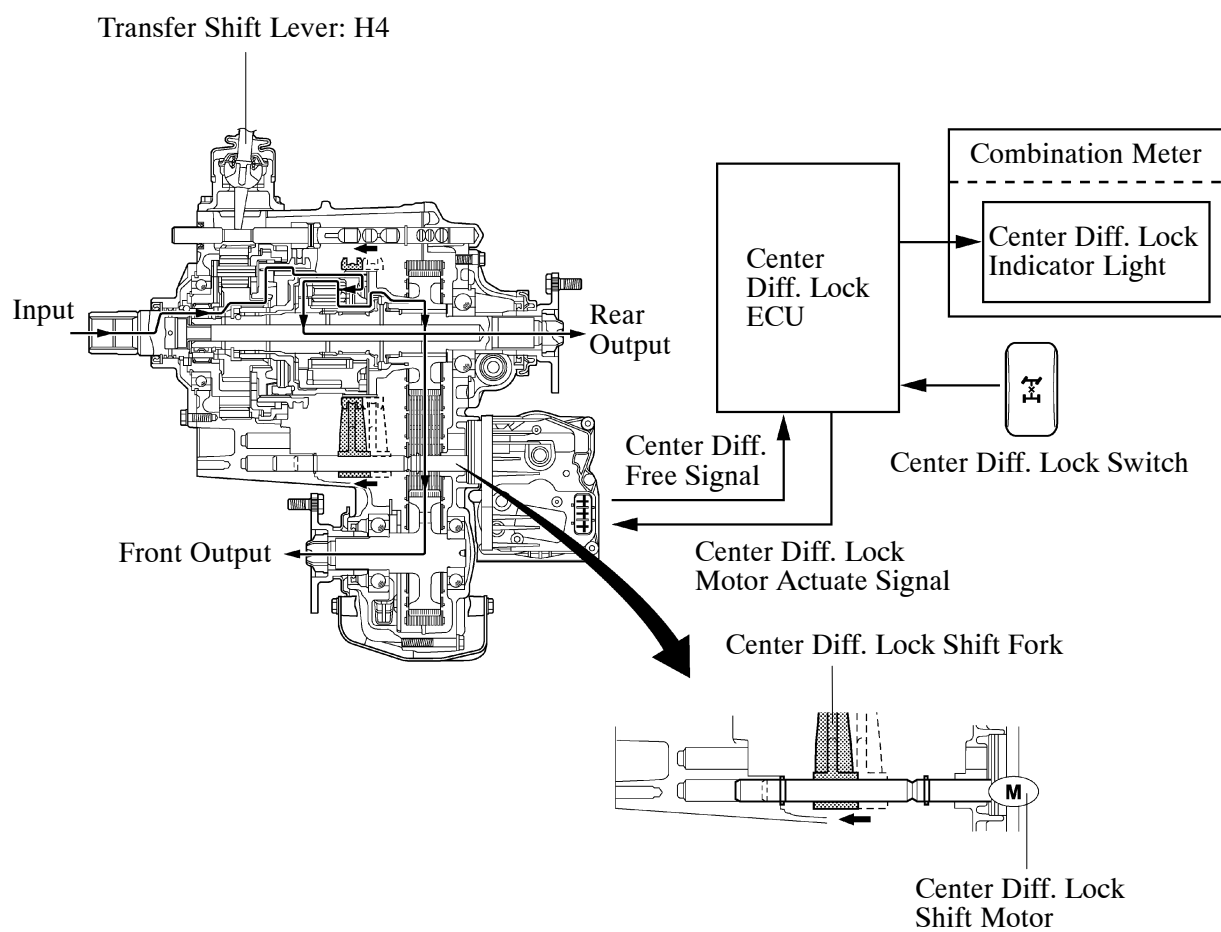
#### H4F → H4L

- When the center diff. lock switch turns ON, this signal is input into the center diff. lock ECU, and the center diff. lock ECU actuates the center diff. lock shift motor in the transfer shift actuator. Accordingly, the center diff. lock shift motor moves the center diff. lock shift fork to the right, locks the center diff. and assumes the H4L mode.
- At this time, the center diff. lock ECU detects the state of the center differential through the center diff. lock shift motor limit switch and center diff. lock detection switch. The center diff. lock ECU causes the center differential lock indicator light to blink during switching, and to turn ON when the center differential is locked.



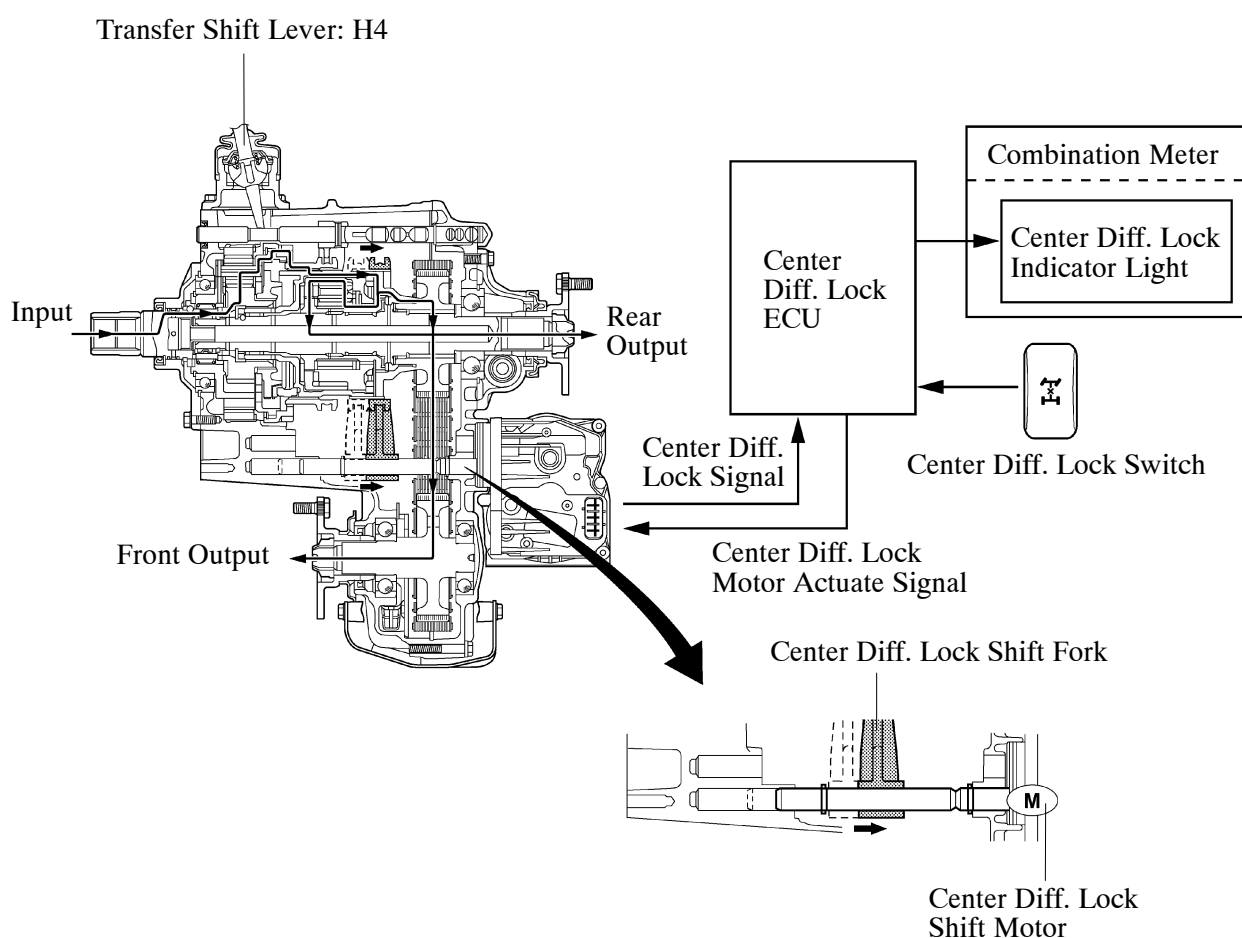
## H4L → H4F

- When the center diff. lock switch turns OFF, this signal is input into the center diff. lock ECU, and the center diff. lock ECU actuates the center diff. lock shift motor in the transfer shift actuator. Accordingly, the center diff. lock shift motor moves the center diff. lock shift fork to the left, frees the center diff. and assumes the H4F mode.
- At this time, the center diff. lock ECU detects the state of the center differential through the center diff. lock shift motor limit switch and center diff. lock detection switch. The 4WD control ECU causes the center differential lock indicator light to blink during switching, and to turn OFF when the center differential is freed.



**L4F → L4L**

- When the center diff. lock switch turns ON, this signal is input into the center diff. lock ECU, and the center diff. lock ECU actuates the center diff. lock shift motor in the transfer shift actuator. Accordingly, the center diff. lock shift motor moves the center diff. lock shift fork to the right, locks the center diff. and assumes the L4L mode.
- At this time, the center diff. lock ECU detects the state of the center differential through the center diff. lock shift motor limit switch and center diff. lock detection switch. The center diff. lock ECU causes the center differential lock indicator light to blink during switching, and to turn ON when the center differential is locked.

**CH**

**L4L → L4F**

- When the center diff. lock switch turns OFF, this signal is input into the center diff. lock ECU, and the center diff. lock ECU actuates the center diff. lock shift motor in the transfer shift actuator. Accordingly, the center diff. lock shift motor moves the center diff. lock shift fork to the left, frees the center diff. and assumes the L4F mode.
- At this time, the center diff. lock ECU detects the state of the center differential through the center diff. lock shift motor limit switch and center diff. lock detection switch. The center diff. lock ECU causes the center differential lock indicator light to blink during switching, and to turn OFF when the center differential is freed.

