

Please refer to the instruction manual of T4PM for the update method.

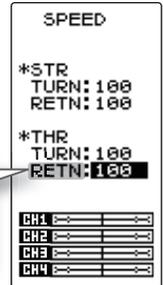
## Additional function / Throttle Speed Return Setting

In the speed function, a setting has been added for the "return" side when returning from the throttle high side to the neutral direction. The setting method is the same as the "return" side of steering speed. Also, a servo operation monitor has been added to the lower side of the screen.

### Warning

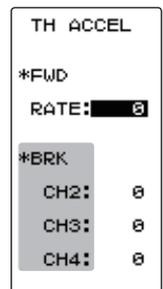
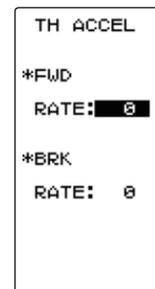
- Setting the speed function in the return direction slows the deceleration of the car body, so please be careful to set it carefully.

The "RETN" when returning from the throttle high side to the neutral direction.



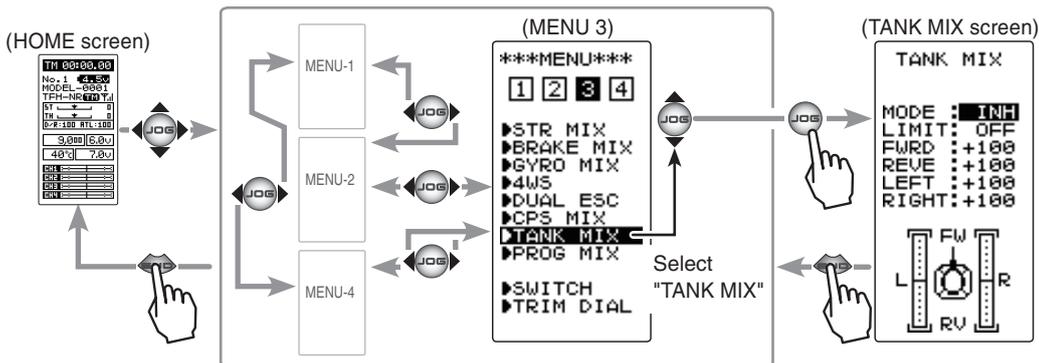
## Additional function / The 3/4 Brake Channel Acceleration

If the "Brake mixing" function is being set, the 3rd and 4th channel brake side acceleration will become adjustable.

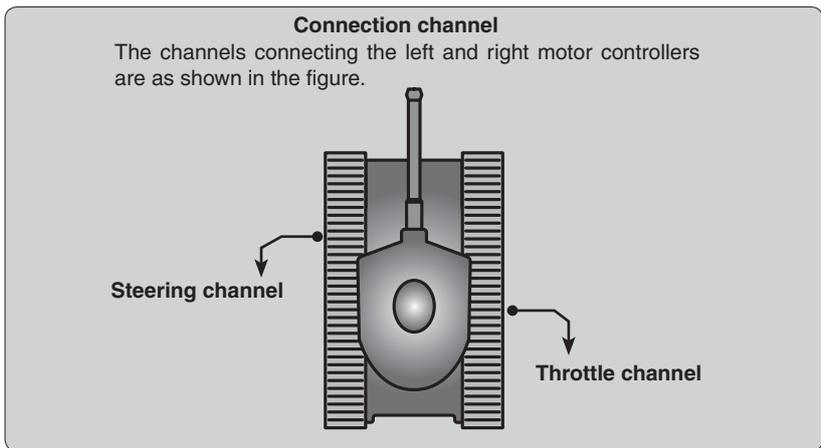


## Additional function / Tank Mixing

This function is intended for vehicles such as tanks and can be used for the pivotal turn, or the ultra-pivotal brake turn, by steering and throttle operation.



- Setup items**
- MODE: Function ON/OFF
  - LIMIT: Limit the operating range
  - FWRD: Forward speed
  - REVE: Reverse speed
  - LEFT: Left side rate
  - RIGHT: Right side rate



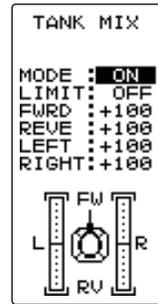
## Tank mixing adjustment

### 1 (Mixing function ON/OFF)

Select the setting item "MODE" by moving the (JOG) button up or down. Use the (+) or (-) button and set the function to the "ON" or "OFF" state.

"INH": Function OFF.

"ON": Function ON.



#### Function ON/OFF (MODE)

INH,ON (OFF)

#### Select button

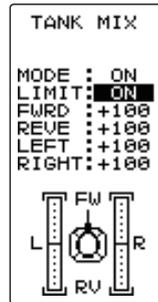
- Select with the (+) or (-) buttons.

### 2 (Limit ON / OFF)

This function limits the maximum operation amount of the steering and throttle channel so that it does not exceed the limit by the influence of the mixing amount. Select the setting item "LIMIT" by moving the (JOG) button up or down. Use the (+) or (-) button and set the function to the "ON" or "OFF" state.

"OFF": Limit function OFF

"ON": Limit function ON



#### Function ON/OFF (MODE)

INH,ON (OFF)

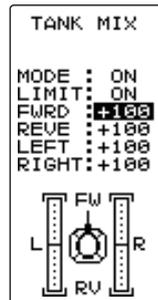
#### Select button

- Select with the (+) or (-) buttons.

### 3 (Forward / backward rate adjustment)

Select the setting item "FWRD" or "REVE" by moving the (JOG) button up or down. Use the (+) and (-) buttons to adjust the forward or reverse speed.

- The throttle channel and the steering channel operate in conjunction with each other, and by operating the trigger to the high side, the car body advances at the "FWRD" rate. When the trigger is operated to the brake side, it operates at the "Back" rate.



#### Forward (FWRD)

#### / Backward (REVE) rate

-100 ~ +100

Initial value: +100

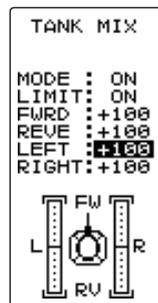
#### Adjustment buttons

- Use the (+) and (-) buttons to make adjustments.  
- Return to the initial value by pressing the (+) and (-) buttons simultaneously (approx. 1 sec).

### 4 (Left / Right side travel adjust)

Select the setting item "LEFT" or "RIGHT" by moving the (JOG) button up or down. Use the (+) and (-) buttons to adjust the left or right side travel amount.

- When the throttle channel and the steering channel work in conjunction, when operating the steering wheel to the right, the car body turns to the right at the "RIGHT" rate the pivotal turn. If you operate to the left, the car will turn to the left at the "LEFT" rate the pivotal turn.



#### Left (LEFT)

#### / Right (RIGHT) rate

-100 ~ +100

Initial value: +100

#### Adjustment buttons

- Use the (+) and (-) buttons to make adjustments.  
- Return to the initial value by pressing the (+) and (-) buttons simultaneously (approx. 1 sec).

### 5 When finished with the setting, return to the MENU screen by pressing the (END) button.

#### When steering and trigger are operated at the same time.

If you manipulate the trigger to the high side and operate the steering wheel to the right, the tank will turn right at the rate of "FWRD", "RIGHT".

If you manipulate the trigger to the high side and operate the steering wheel to the left, the tank turns to the left at the rate of "FWRD", "LEFT".

Operating the steering wheel while operating the trigger to the brake side will operate the same as the forward side in the reverse direction.

## Additional function / Traction

Trigger operation with cornering on a slippery road surface is hard to get traction and smooth cornering cannot be done. By intermittently pulsing the throttle, you can smoothly navigate and travel on topological lines. Also, with a drift car, by intermittently operating the motor in the high point direction, a pseudo reverberator engine sound can be reproduced.

### Operation

- During throttle operation, the throttle servo is intermittently operated in the forward direction.
- You can set the amount of return to the slow side, the amount of delay, the speed of pumping, the operating point, and the duty ratio of pumping.
- You can choose the action on the slow side near the neutral and the action on the high point side.

### Switch setting

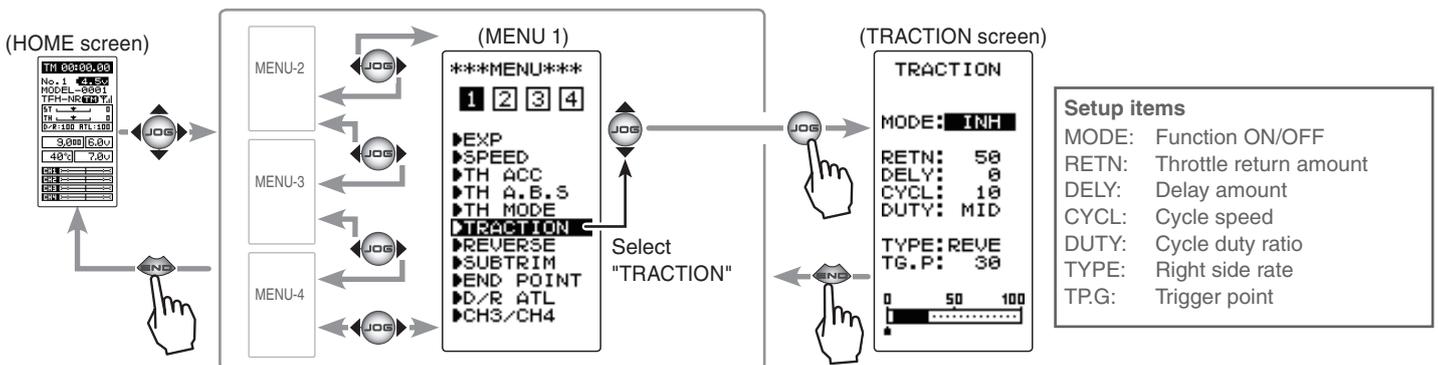
Use SW1 or SW2 to switch the traction control function ON/OFF.

### Dial / Trim Setting

The throttle return amount, delay amount and cycle speed can be controlled with digital trim DT1 to DT5 or digital dial DL1 etc. with the dial select function.

### About Fail Safe Unit

The use of the Futaba fail safe unit (FSU) is similar to the page description of the TH A.B.S function.



#### - MODE: Function ON/OFF

Traction control functions ON/OFF setting. When using the Traction control function, set to "ON".

#### - RETN: Throttle return

Set the ratio at which the servo returns to the slow side with respect to the trigger operation. If set to 0%, the traction control function will not work. At 50%, it returns to the neutral position at 50% (half), 100% of the trigger operation amount.

#### - DELY: Delay

Set the delay from when the throttle is operated until when the traction control operation starts. When set to 0%, the traction control function works without delay. At 50%, the traction control function works approximately 0.5 second later, and the traction control function works about 1.0 second later at 100%.

#### - CYCL: Cycle speed

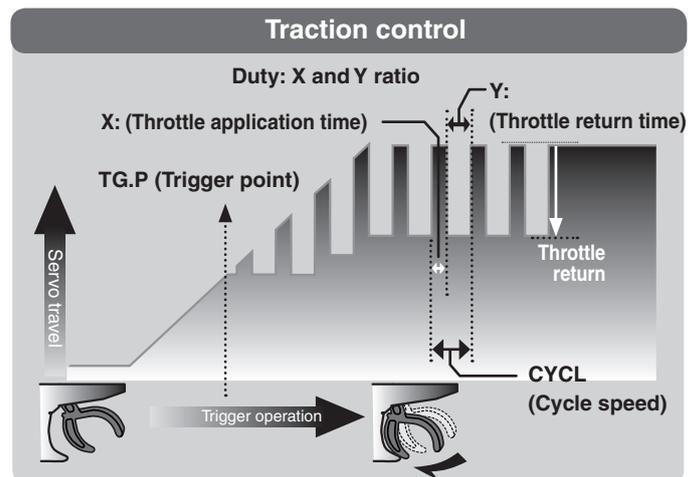
Sets the pulse speed (cycle speed). The smaller the set value, the faster the pulse cycle.

#### - DUTY: Duty ratio

Set the ratio of the time to operate to the high side and the time to operate to the slow side in the pumping operation. The ratio can be set to HIGH, MID or LOW.

#### - TG.P: Trigger point / TYPE: Operating range

In the throttle operation, set the position of the trigger at which traction control starts to work. Normal / Reverse, reverse the throttle operation range where the traction control operates, with the trigger point as the boundary.



## Traction control function adjustment

### 1 (Function ON/OFF)

Select the setting item "MODE" by moving the (JOG) button up or down. Use the (+) or (-) button and set the function to the "ON" or "OFF" state.

"INH": Function OFF.

"ON": Function ON.

"ON(OFF)": Switch OFF when setting switches.

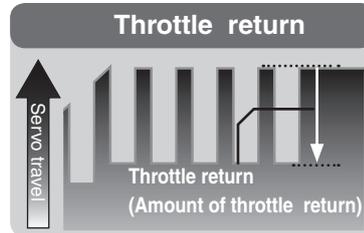
### 2 ("Throttle return" amount adjustment)

Select the setting item "RETN" by moving the (JOG) button up or down. Use the (+) and (-) buttons to adjust the delay amount.

"0": No return

"50": Return to the 50% position of the brake operation amount

"100": Return to the neutral position.



### 3 ("Delay" amount setup)

Select the setting item "DELY" by moving the (JOG) button up or down. Use the (+) and (-) buttons to adjust the return amount.

"0": Function performed without any delay

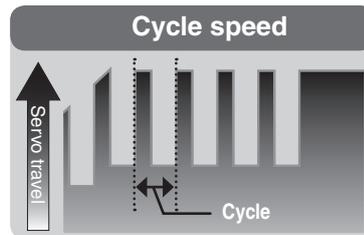
"50": Function performed after an approximate 0.5 sec delay.

"100": Function performed after an approximate 1.0 sec delay.

### 4 ("Cycle speed" adjustment)

Select the setting item "CYCL" by moving the (JOG) button up or down. Use the (+) and (-) buttons to adjust the cycle speed amount.

- The smaller the set value, the faster the pulse speed.

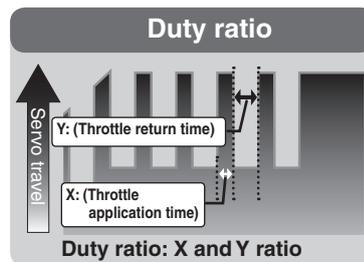


### 5 ("Duty ratio" setup)

Select the setting item "DUTY" by moving the (JOG) button up or down. Use the (+) and (-) buttons to set the duty ratio.

"LOW": Forward application time becomes shortest.

"HIGH": Forward application time becomes longest.



### 6 ("Trigger point" setup)

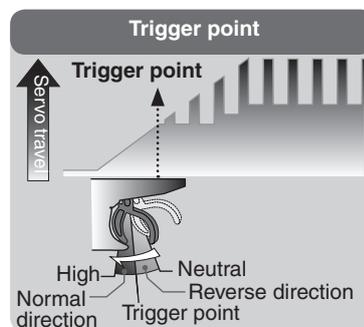
Select the setting item "TG.P" by moving the (JOG) button up or down. Use the (+) and (-) buttons to adjust the operation point.

- Sets the throttle trigger position at which the traction control function is performed. The number is the % display with the full throttle position made 100.

Select the setting item "TYPE" by moving the (JOG) button up or down. Use the (+) or (-) button to set the operating range.

"NORM": High range from the trigger point to the operating range.

"REVE": Operating range from neutral to trigger point.



#### Function ON/OFF (MODE)

INH, ON (OFF)

#### Select button

- Select with the (+) or (-) buttons.

#### Throttle return (RETN)

1 ~ 500 ~ 100

Initial value: 50

#### Adjustment buttons

- Use the (+) and (-) buttons to make adjustments.  
- Return to the initial value by pressing the (+) and (-) buttons simultaneously (approx. 1 sec).  
- The amount of throttle return varies depending on the EXP setting of the throttle etc.

#### Delay (DELY)

0 ~ 100

Initial value: 0

#### Adjustment buttons

- Use the (+) and (-) buttons to make adjustments.  
- Return to the initial value by pressing the (+) and (-) buttons simultaneously (approx. 1 sec).

#### Cycle speed (CYCL)

1 ~ 30

Initial value: 10

#### Adjustment buttons

- Use the (+) and (-) buttons to make adjustments.  
- Return to the initial value by pressing the (+) and (-) buttons simultaneously (approx. 1 sec).

#### Duty ratio (DUTY)

LOW - MID - HIGH

Initial value: MID

#### Select button

- Use the (+) and (-) buttons to make adjustments.  
- Return to the initial value by pressing the (+) and (-) buttons simultaneously (approx. 1 sec).

#### Trigger point (TG.P)

5 ~ 95

Initial value: 30

#### Select button

- Use the (+) and (-) buttons to make adjustments.  
- Return to the initial value by pressing the (+) and (-) buttons simultaneously (approx. 1 sec).

#### Type (TYPE)

NORM, REVE

#### Select button

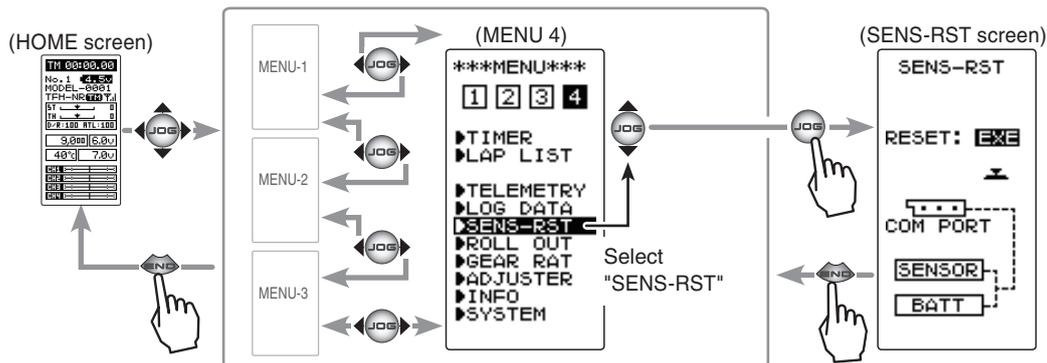
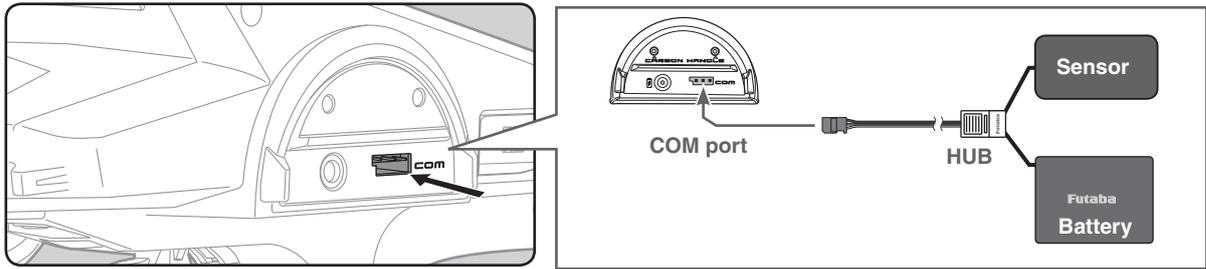
- Use the (+) and (-) buttons to make adjustments.

### 7 When finished with the setting, return to the MENU screen by pressing the (END) button.

## Additional function / Resets the sensor slot number

This function is to reset the sensor slot number when using a sensor whose slot number has been changed by another transmitter. Connect the sensor as shown and register according to the following procedure.

### Sensor connect



### How to reset sensor slot number

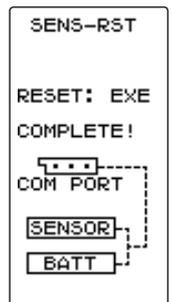
#### 1 (Execute reset)

Press the (JOG) button for about 1 second.

- "COMPLETE!" blinks on the screen and reset sensor slot number.

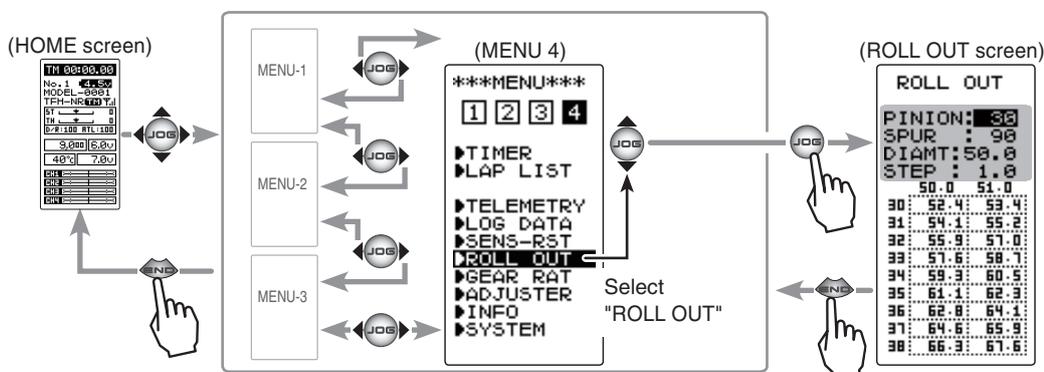
- If "COM-ERROR" blinks on the screen, communication with the sensor is not being performed normally. Check the T4PM and sensor connection and the battery connection to sensor and repeat RESET.

#### 2 When finished with the setting, return to the MENU screen by pressing the (END) button.



## Additional function / Roll Out Chart

This function is designed for pan cars. The roll out chart can be calculated from input values for the number of teeth of the spur gear and pinion gear, and the tire diameter, and displayed as a table.



#### Adjustment buttons

- Use the (+) and (-) buttons to make adjustments.
- Return to the initial value by pressing the (+) and (-) buttons simultaneously (approx. 1 sec).

### Use of Roll out chart function

#### 1 (Setting of step of the tire diameter input)

Select the setting item "STEP" by moving the (JOG) button up or down. Use the (+) and (-) buttons to set the step of input numerical value of tire diameter amount.

-The step amount can be set in the range of 0.1 mm to 1.0 mm.

- 2** (Setting of number of teeth of spur gear)  
Select the setting item "SPUR" by moving the (JOG) button up or down. Use the (+) and (-) buttons to set the spur gear. The roll out is then calculated, and the list is updated.

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- 3** (Setting of number of teeth of pinion gear)  
Select the setting item "PINION" by moving the (JOG) button up or down. Use the (+) and (-) buttons to set the pinion gear. The roll out is then calculated, and the list is updated.

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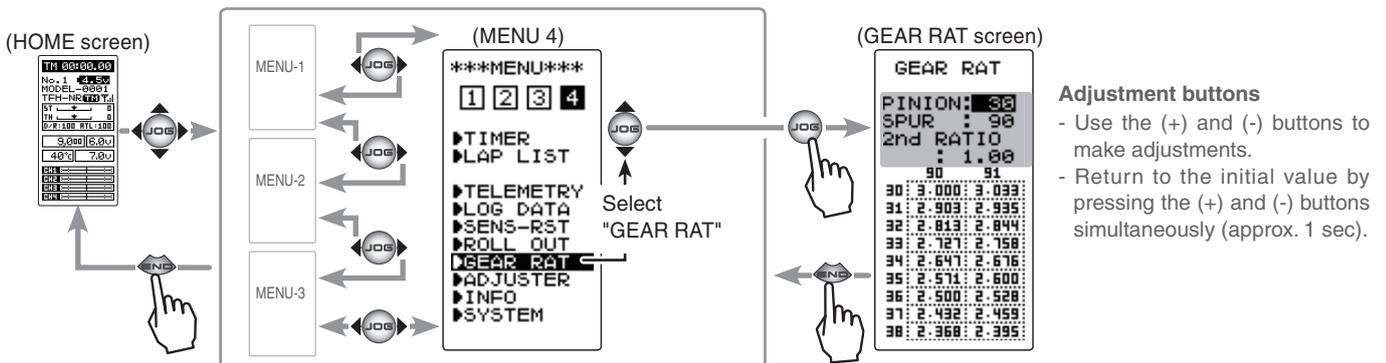
- 4** (Setting of tire diameter)  
Select the setting item "DIAMT" by moving the (JOG) button up or down. Use the (+) and (-) buttons to set the tire diameter. The roll out is then calculated, and the list is updated.

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- 5** When finished with the setting, return to the MENU screen by pressing the (END) button.

## Additional function / Gear Ratio Chart

The Gear Ratio Chart can be calculated from input values for the number of teeth of the spur gear and pinion gear, and secondary gear ratio, and displayed as a table.



### Use of Gear ratio chart function

- 1** (Setting of number of teeth of pinion gear)  
Select the setting item "PINION" by moving the (JOG) button up or down. Use the (+) and (-) buttons to set the pinion gear. The roll out is then calculated, and the list is updated.

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- 2** (Setting of number of teeth of spur gear)  
Select the setting item "SPUR" by moving the (JOG) button up or down. Use the (+) and (-) buttons to set the spur gear. The roll out is then calculated, and the list is updated.

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- 2** (Setting of number of secondary gear ratio)  
Select the setting item "2nd RATIO" by moving the (JOG) button up or down. Use the (+) and (-) buttons to set the 2nd gear ratio. The roll out is then calculated, and the list is updated.

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- 4** When finished with the setting, return to the MENU screen by pressing the (END) button.