

CONTROL SYSTEM ADJUSTING THE SHIFT CONTROL CABLE

1. Check:
 - Shift control cable
 - Damage → Replace.
 - Incorrect shift handle position/poor shifting → Adjust.

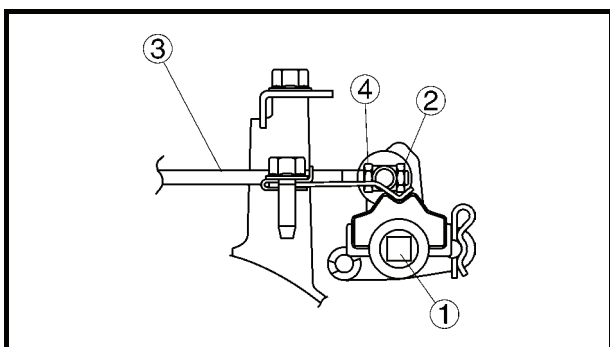
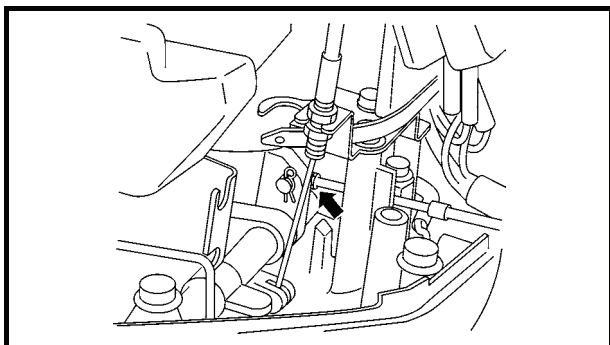
2. Adjust:
 - Shift control cable

Adjusting steps:

- (1) Move the shift handle so the shift rod lever ① is in the neutral position.
 - (2) Remove the locknut ②.
 - (3) Set the shift handle to the neutral position. Then, hold it in this position.
 - (4) Adjust the shift control cable ③ to the proper length with the adjusting nut ④.
 - (5) Install the locknut ② and tighten it.
 - (6) Move the shift handle to the forward, neutral, and reverse positions and make sure it shifts smoothly and correctly.
- If the shifting operations unsmooth or incorrect, repeat the above procedure

NOTE:

If the shift handle cannot be set to the reverse position, rotate the propeller slightly then operate.



ADJUSTING THE THROTTLE CONTROL CABLES

NOTE:

Before adjusting the throttle control cables, make sure that the shift control cable is properly adjusted (for long handle model only).

1. Check:

- Throttle control cables
Damage → Replace.
Excessive slack or the stoppers do not contact each other → Adjust.

2. Adjust:

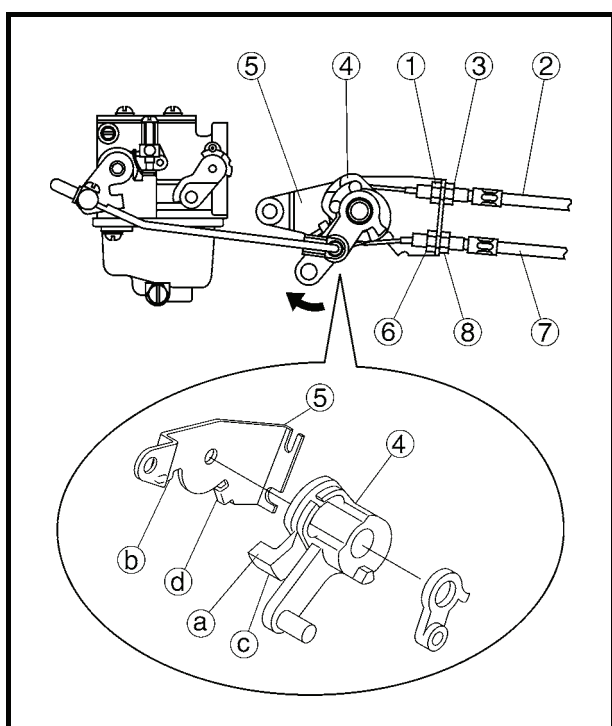
- Throttle control cables

Adjusting steps:

- (1) Turn the throttle grip to the fully-opened position.
- (2) Loosen the locknut ①.
- (3) Adjust the length of the throttle wire ② with the adjusting nut ③ until the stopper portion ④ on the pulley contacts the stopper portion ⑤ on the throttle wire stay.
- (4) Tighten the locknut ①.
- (5) Loosen locknut ⑥.
- (6) Adjust the length of the throttle wire ⑦ with the adjusting nut ⑧.

NOTE:

Adjust the length so that there is no clearance between the drum hole of pulley ④ and the drum at the tip of decelerator cable ⑦.



- (7) Tighten the locknut ⑥.

- (8) Fully open and close the throttle grip and make sure the stopper portion ④ contacts the stopper portion ⑤ (at the fully opened position), and the stopper portion ⑥ contacts the stopper portion ⑦ (at the fully-closed position).
If proper contact is not made, repeat the above procedure.

ADJUSTING THE THROTTLE AXLE LINK

NOTE:

Before adjusting the throttle axle link, make sure that the throttle control cables is properly adjusted.

1. Check:

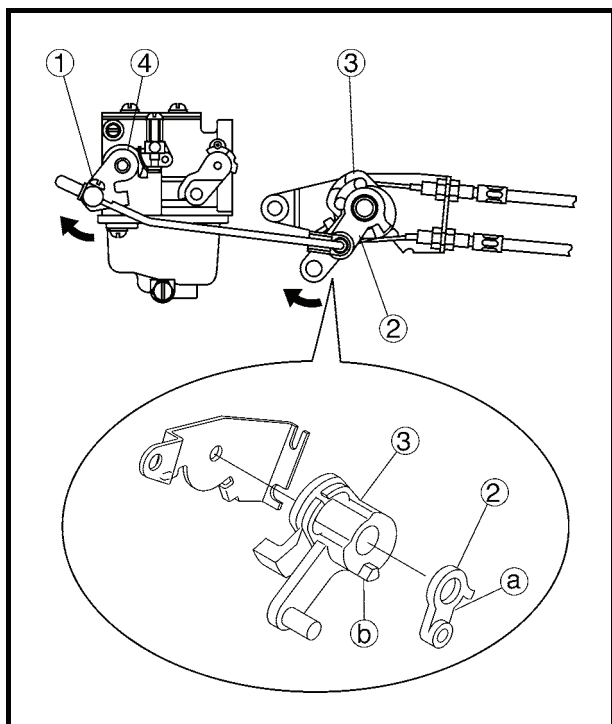
- Throttle axle link
 Bend/damage → Replace.
 Incorrect position → Adjust.

2. Adjust:

- Throttle axle link

Adjusting steps:

- (1) Loosen lock screw ①.
- (2) Turn the throttle grip to the fully open position.
- (3) Hold so that the rear side face ② of free axle lever is in contact with the actuating portion ③ of pulley.
- (4) Turn throttle link ④ fully clockwise until it stops, then tighten lock screw ①.



Lock screw:

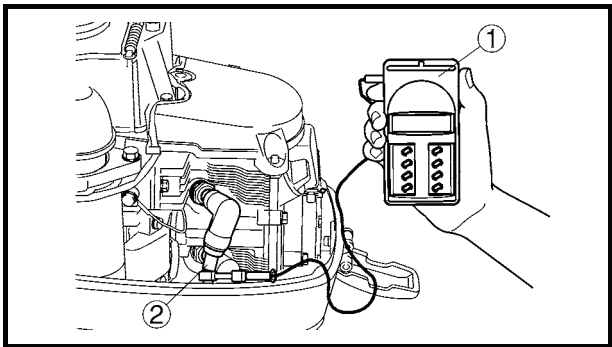
1.5 N·m (0.15 kgf·m, 1.1 ft·lb)

- (5) Operate the throttle grip to the fully open position and fully closed position, and check that carburetor throttle link ④ opens and closes fully. If it does not move properly, carry out the above procedure again.

ADJUSTING THE ENGINE IDLING SPEED

NOTE:

- Before adjusting the engine idling speed, make sure the throttle axle link is properly adjusted.
- Before adjusting the engine idling speed, warm-up the engine. Correct adjustment cannot be obtained when the engine is cold.



- Measure:
 - Engine idling speed
Out of specification → Adjust.

Engine idling speed:
1,050 ± 50 r/min

Measuring steps:

- (1)Start the engine and allow it to warm up for several minutes.
- (2)Attach the engine tachometer ① to the spark plug lead ② of the cylinder #1.

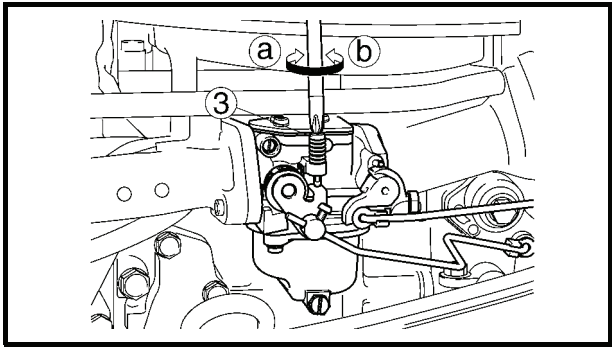
Engine tachometer:
YU-08036-A/90890-06760

- (3)Measure the engine idling speed.

- Adjust:
 - Engine idling speed

Adjusting steps:

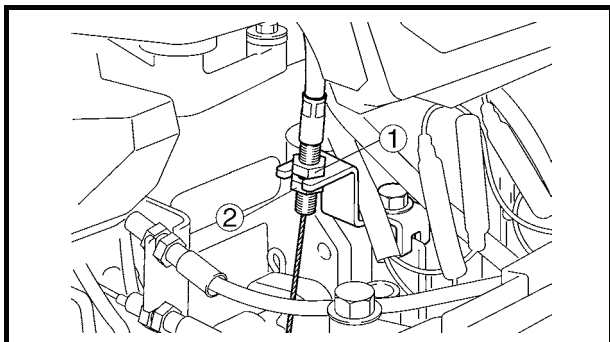
- (1)Turn the throttle stop screw ③ in direction ① or ② until the specified engine idling speed is obtained.



Direction ①	Engine idling speed increases.
Direction ②	Engine idling speed decreases.

ADJUSTING THE START-IN-GEAR PROTECTION DEVICE

1. Check:
 - Start-in-gear protection device operation
 Incorrect → Adjust.



2. Adjust:
 - Start-in-gear protection cable.

Adjusting steps:

- (1) Set the shift lever in the neutral position.
- (2) Loosen the locknut ①.
- (3) Adjust the adjusting nut ② so that the point (a) on the wire connector ③ aligns with the mark (b) on the starter cover.
- (4) Tighten locknut ①.

NOTE:

Shift the shift lever into neutral and make sure the starter can be pulled. If it cannot be pulled, repeat the above procedure.

