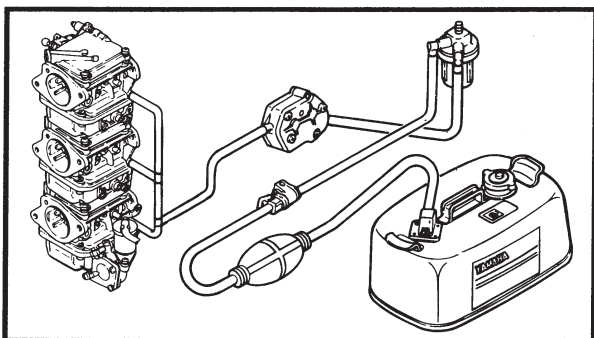


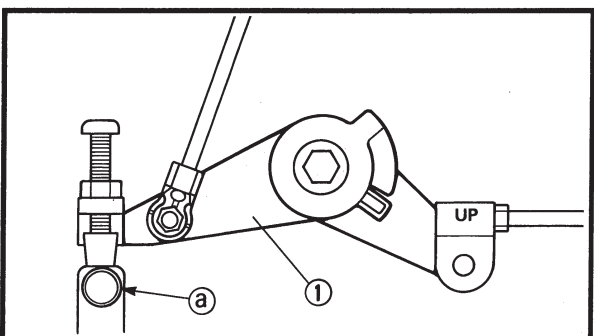


PERIODIC SERVICE FUEL SYSTEM

Fuel line

1. Inspect:

- Fuel line
- Break/Leak/Damage → Replace.



CONTROL SYSTEM

Throttle link adjustment

1. Check:

- CDI unit indicator
- Incorrect → Adjust.

Checking steps:

- Turn the magneto control lever ① so that its adjusting screw contacts the full retarding stopper ②.
- Check the CDI unit indicator so that it aligns with the specified marking on the plate.

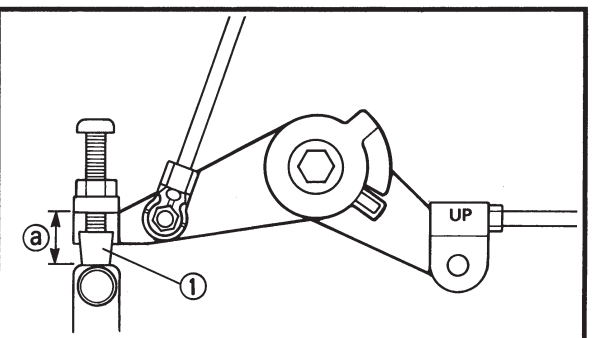
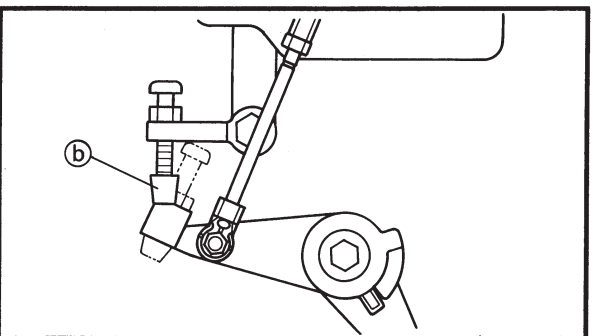
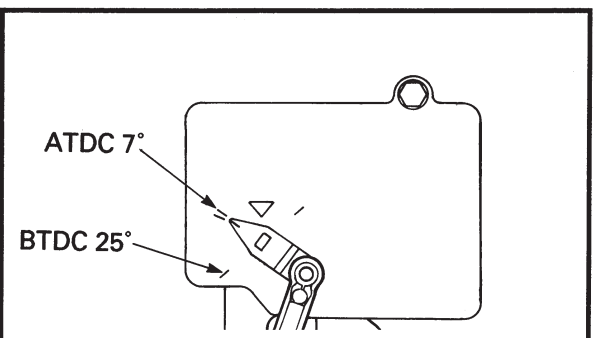


Full retarded position:
ATDC 7°

- Turn the magneto control lever so that it contacts the full advance adjusting screw ③.
- Check the CDI unit indicator so that it aligns with specified marking on the plate.



Full advanced position:
BTDC 25°



2. Adjust:

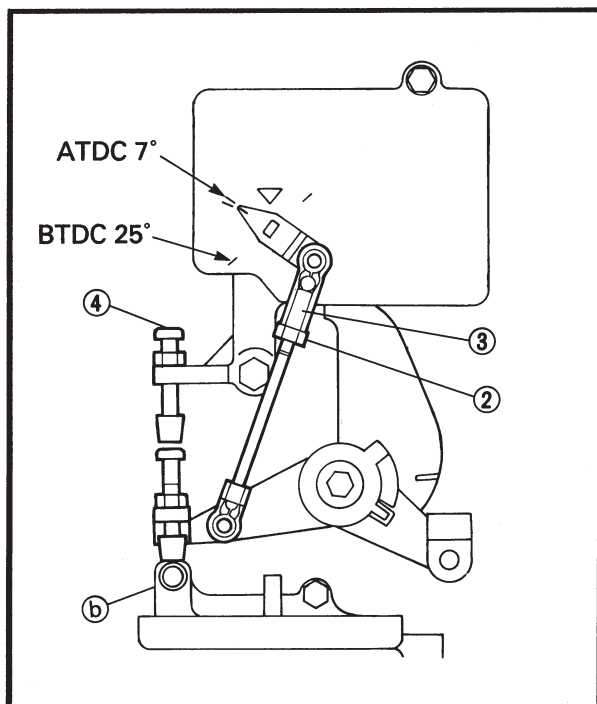
- Ignition timing

Adjustment steps:

- Adjust the length ④ of the full retarding screw ① to specification.



Full retarding screw length:
20 mm (0.79 in)



- Loosen the lock nut ②.
- Disconnect the magneto control rod ③ at the CDI unit.
- Turn the magneto control lever so that its adjusting screw contacts the full retarding stopper ⑥.
- Adjust the magneto control rod length so that the CDI unit indicator aligns with the specified marking on the plate.



Full retarded position:
ATDC 7°

- Connect the magneto control rod.
- Turn the magneto control lever so that it contacts the full advance adjusting screw ④.
- Adjust the full advance adjusting screw so that the CDI unit indicator aligns with the specified marking on the plate.

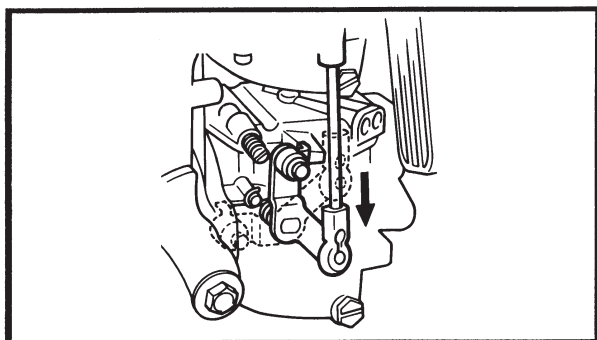


Full advanced position:
BTDC 25°

Throttle cable adjustment

NOTE:

Before adjusting the throttle cable, the throttle link should be adjusted.



1. Check:

- Full-open position
Incorrect → Adjust.

Checking steps:

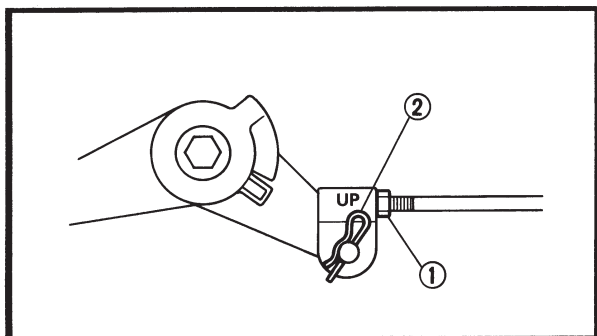
- Set the shift lever to the forward position.
- Open the throttle grip fully.
- Check the throttle valve lever so that it contacts the full opening stopper.

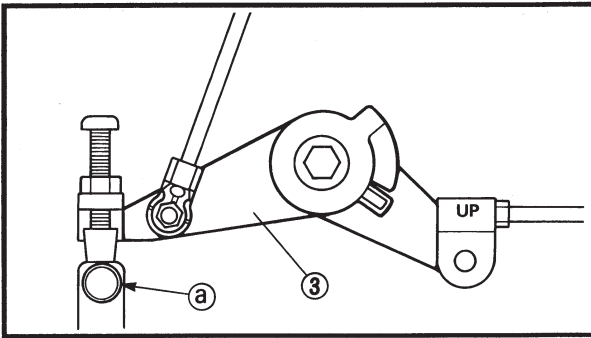
2. Adjust:

- Throttle cable joint position

Adjustment steps:

- Loosen the lock nut ①.
- Remove the clip ②.
- Disconnect the cable joint at the magneto control lever.
- Close the throttle grip fully.





- Turn the magneto control lever ③ so that its adjusting screw contacts the full retarding stopper ②.
- Adjust the position of the cable joint until its hole aligns with the set pin.
- Install the clip and tighten the lock nut.

⚠ WARNING

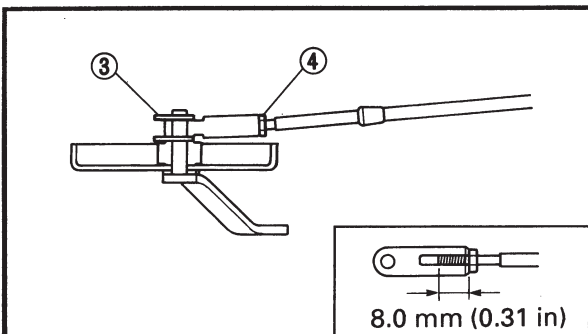
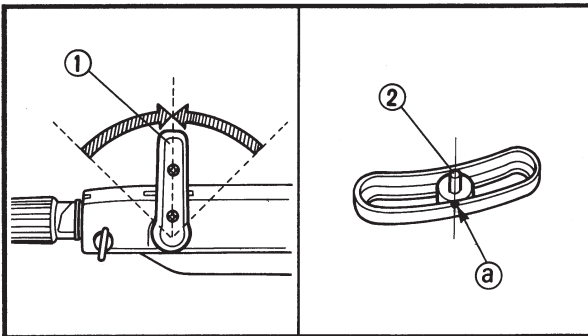
The cable joint should be screwed in more than 8 mm (0.31 in).

NOTE:

Put the "UP" mark upward.

3. Check:

- Throttle operation
Unsmooth operation → Repair.


Shift cable adjustment
1. Check:

- Shift operation
Incorrect → Adjust.

2. Adjust:

- Shift cable joint position

Adjustment steps:

- Set the shift handle ① in neutral.
- Align the center of the set pin ② with the mark ③ on the bracket.
- Adjust the position of the cable joint until its hole aligns with the set pin.
- Install the clip ③ and tighten the lock nut ④.

⚠ WARNING

The cable joint should be screwed in more than 8 mm (0.31 in).

NOTE:

Put the "UP" mark upward (manual starter model only).

3. Check:

- Shift operation
Unsmooth operation → Repair.

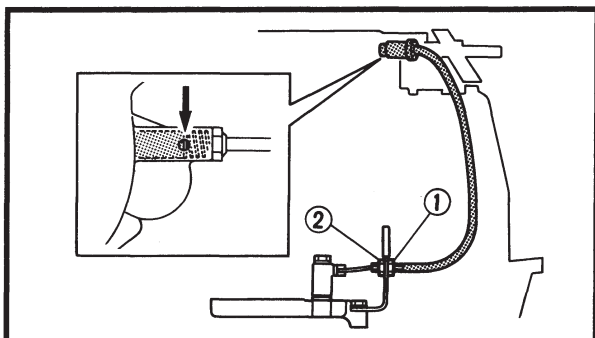
Start-in-gear protection adjustment

1. Check:

- Start-in-gear protection operation
Incorrect → Adjust.

2. Adjust:

- Start-in-gear protection wire



Adjustment steps:

- Set the shift lever in neutral.
- Loosen the lock nut ①.
- Adjust the start-in-gear protection wire adjust nut ② so that the end of the starter stop-plunger aligns with the center of the hole in the starter case.
- Tighten the lock nut.

Idle speed adjustment

NOTE:

Before adjusting the idle speed, be sure to adjust the throttle link.

1. Measure:

- Idle speed
Out of specification → Adjust.



Idle speed:
800 ± 50 rpm

Measuring steps:

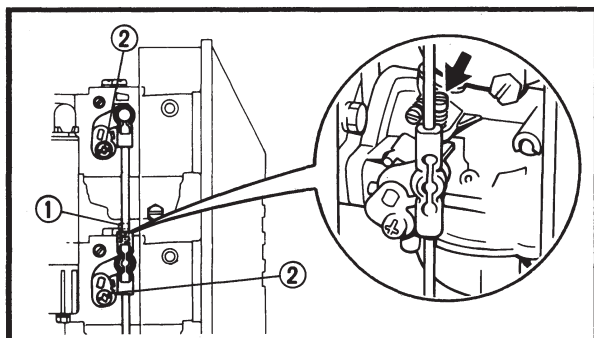
- Start the engine and allow it to warm up for a few minutes.
- Attach the tachometer to the high tension lead of the cylinder #1.



Tachometer:
YU-08036-A/90890-06760

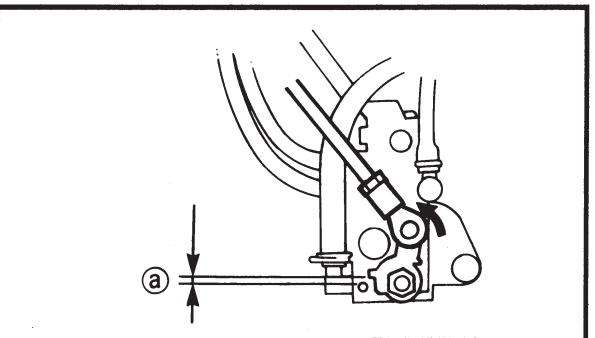
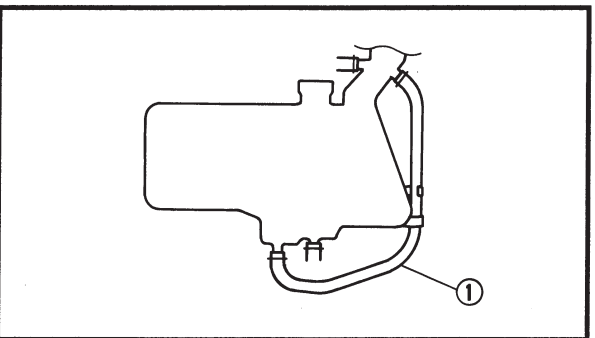
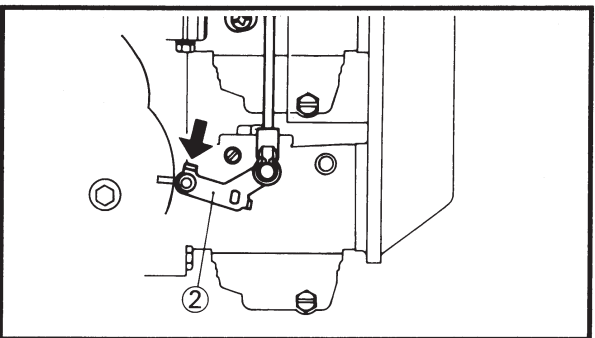
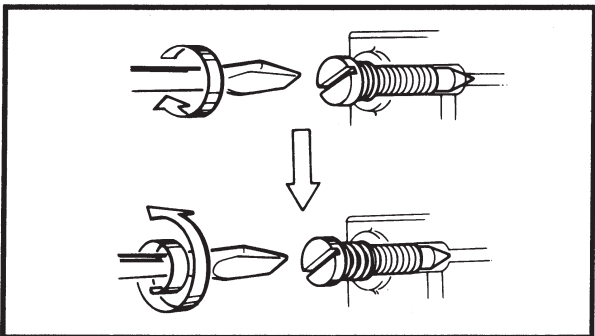
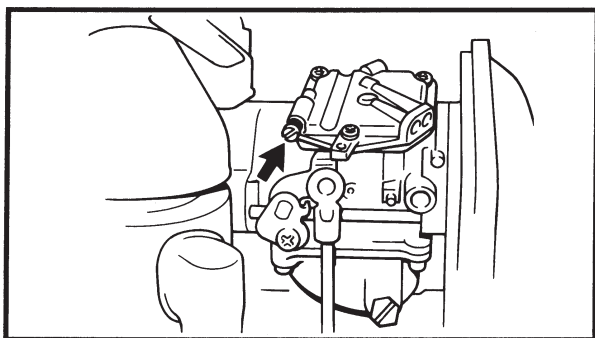
2. Adjust:

- Idle speed



Adjustment steps:

- Loosen the idle adjusting screw ① and fully close the throttle valve.
- Loosen the throttle lever securing screws ② of upper and middle carburetors by turning the screws clockwise.



- Turn in the pilot screw until it is lightly seated.
- Turn out the pilot screw to specification.



Pilot screw (turns out):

40 hp: $1-1/2 \pm 1/4$

50 hp (M model): $1-5/8 \pm 1/4$

50 hp (EM, E model): $1-3/8 \pm 1/4$

- Start the engine and allow it to warm up for a few minutes.
- Attach the tachometer to high tension lead of the cylinder #1.



Tachometer:

YU-08036-A/90890-06760

- Adjust the throttle stop screw in or out until specified idle speed is obtained.

Turning in → Idle speed becomes higher.

Turning out → Idle speed becomes lower.

- While lightly pushing the throttle lever of the lower carburetor in the direction of the arrow (full-closed), tighten the throttle lever securing screw of the upper and middle carburetors by turning the screws counterclockwise.

OIL INJECTION SYSTEM

Oil tank water drain

1. Check:

- Drain hose ①
- Contamination → Drain.

NOTE:

Remove the drain hose at the upper side and drain the contaminates.

Oil pump link adjustment

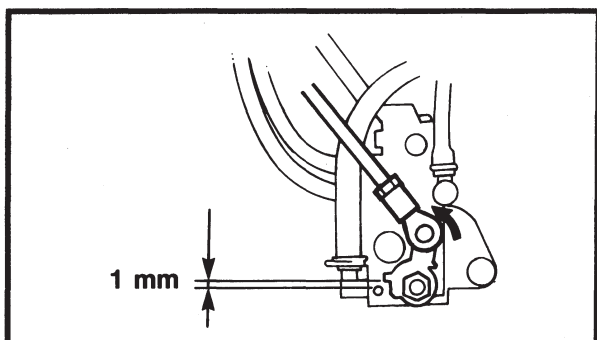
1. Check:

- Clearance ②
- Out of specification → Adjust.



Clearance ②:

1.0 mm (0.04 in)



Checking steps:

- Fully open the carburetor throttle valve.
- Check the clearance ③ between the oil pump lever and full open side stopper.

2. Adjust:

- Oil pump link joint position

Adjustment steps:

- Loosen the lock nut.
- Remove the oil pump link joint at the pump.
- Fully open the carburetor throttle valve.
- Set the oil pump lever 1 mm off the full open side stopper.
- Adjust the position of the link joint until its hole aligns with the oil pump set pin.
- Connect the link joint.
- Check that the throttle valve opens fully.
- Tighten the lock nut.
- Install the washer and clip.

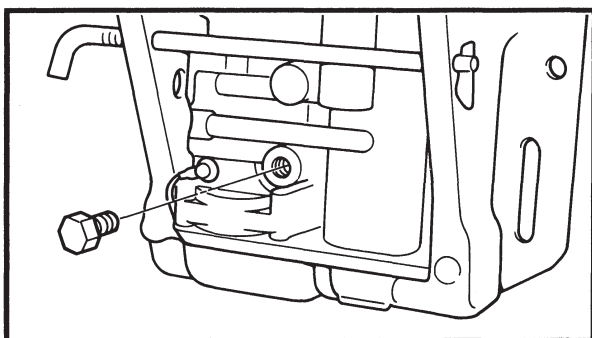
POWER TRIM AND TILT SYSTEM

Power trim and tilt fluid

1. Check:

- Fluid level

Fluid level is low → Fill.



Checking steps:

- Tilt up the outboard, and lock it with the tilt lock lever.
- Remove the plug screw.
- Check that the fluid level is immediately below the fluid hole.

⚠ WARNING

To prevent the hydraulic fluid from spurt-
ing out by cancelling the internal pressure,
the PTT unit should be kept fully tilted up
(the tilt rod being fully lengthened).

2. Fill:

- Yamaha power trim and tilt fluid



Plug screw:

7 Nm (0.7 m • kg, 5.1 ft • lb)