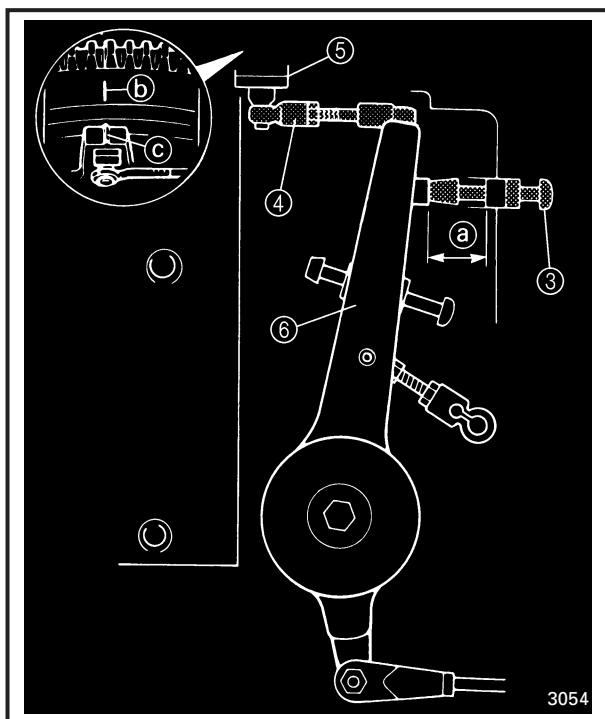




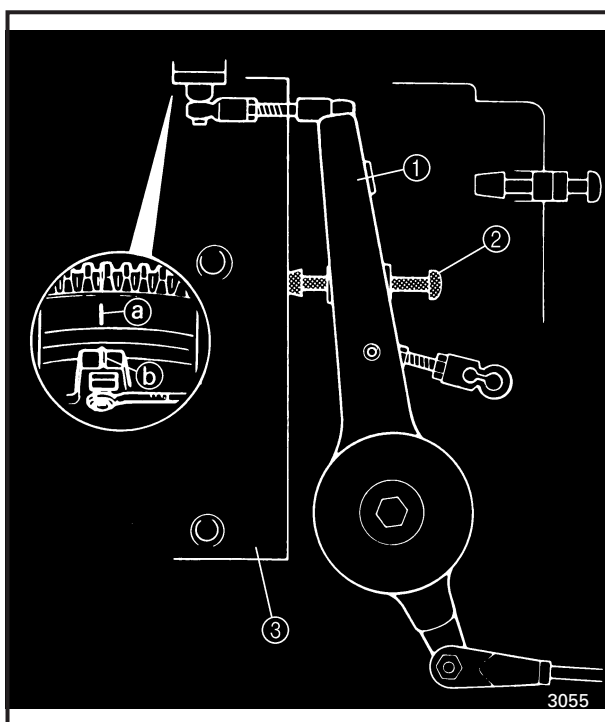
- (8) Secure the timing plate.
- (9) Adjust the length (a) of the full advance adjusting screw (3) to specification.



Full advance adjusting screw length (a)

100A, 130B, S130B, L130B, 140B/100TR, 130TR, S130TR, L130TR:	29.0 mm (1.14 in)
E115A:	24.5 mm (0.96 in)
115B/C115TR:	22.0 mm (0.87 in)
115C, S115C/115TR, S115TR, B115TR:	26.0 mm (1.02 in)

- (10) Disconnect the magneto control link (4) from the pulser coil assembly (5).
- (11) Turn the magneto control lever (6) so that it contacts the full advance adjusting screw (3).
- (12) Adjust the length of the magneto control link (4) so that the mark (b) on the flywheel magnet assembly aligns with the mark (c) on the pulser coil assembly (5).



3. Inspect:

- Ignition timing (full retard)
- Out of specification → Adjust.

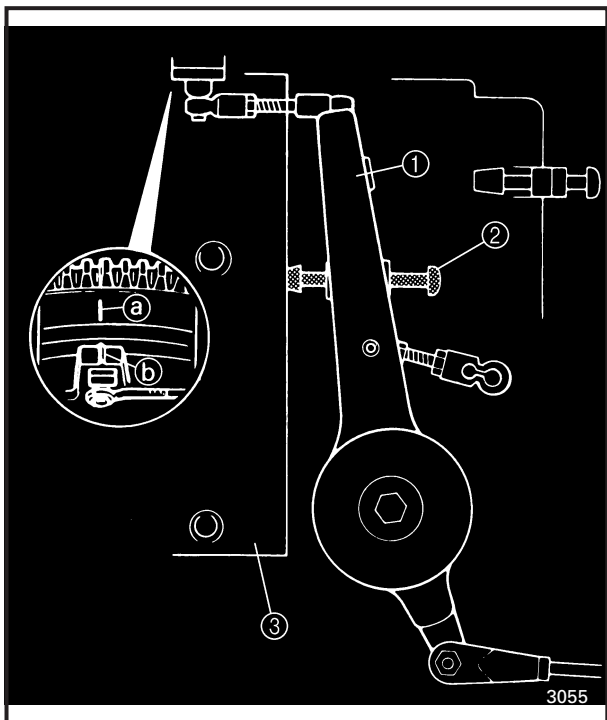
Inspecting steps

- (1) Turn the flywheel magnet assembly clockwise and align the timing plate and the specified mark.



Flywheel magnet assembly position ATDC 5°

- (2) Turn the magneto control lever (1) so that the full retard adjusting screw (2) contacts the crankcase (3).
- (3) Check that the mark (a) on the flywheel magnet assembly aligns with the mark (b) on the pulser coil assembly.



4. Adjust:

- Ignition timing (full retard)

Adjustment steps

- (1) Turn the flywheel magnet assembly clockwise and align the timing plate and the specified mark.



Flywheel magnet assembly position
ATDC 5°

- (2) Turn the magneto control lever ① to the full retard position.
- (3) Adjust the full retard adjusting screw ② so that the mark ③ on the flywheel magnet assembly aligns with the mark ④ on the pulser coil assembly.

SYNCHRONIZING THE CARBURETOR

NOTE:

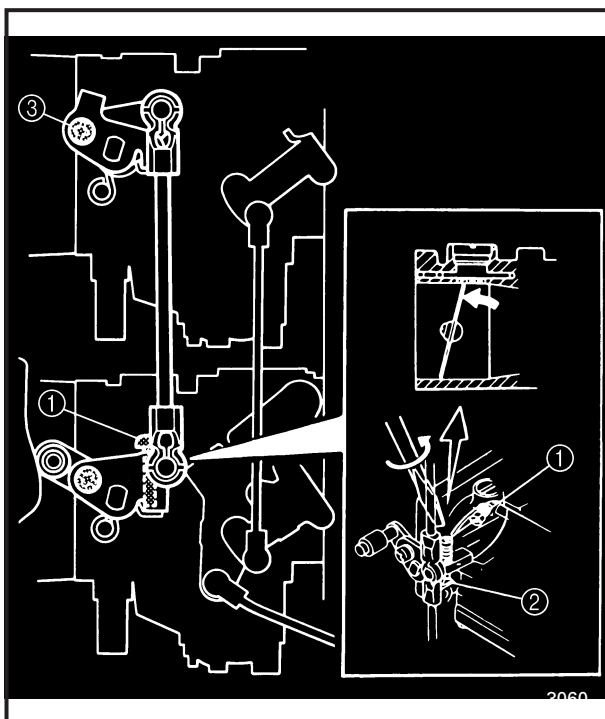
Before synchronizing the carburetor, be sure to adjust the ignition timing.

1. Inspect:

- Carburetor synchronization
- Incorrect → Adjust.

Inspecting steps

- (1) Remove the intake silencer.
- (2) While turning the lower throttle lever, check that all throttle valves become fully closed at the same time.



2. Adjust:

- Carburetor synchronization

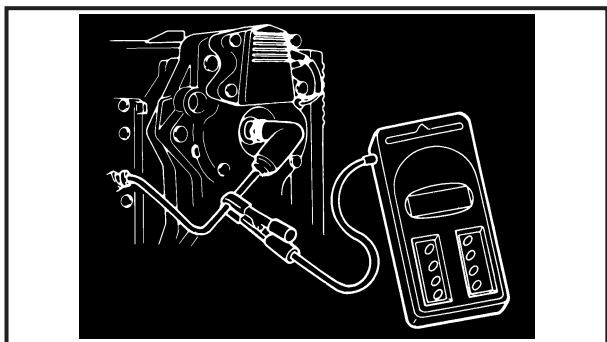
Adjustment steps

- (1) Loosen the throttle stop screw ① until it does not touch the throttle arm stopper ②.
- (2) Loosen the upper carburetor's throttle lever securing screw ③ by turning them clockwise.
- (3) While lightly pushing the lower carburetor's throttle lever in the direction of the arrow (fully closed), tighten the upper carburetor's throttle lever securing screw ③ by turning them counter-clockwise.
- (4) Turn the lower throttle lever and make sure that all of the throttle valves are synchronized.

ADJUSTING THE ENGINE IDLING SPEED

NOTE: _____

Before adjusting the engine idling speed, be sure to synchronize the carburetor and ignition timing.



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



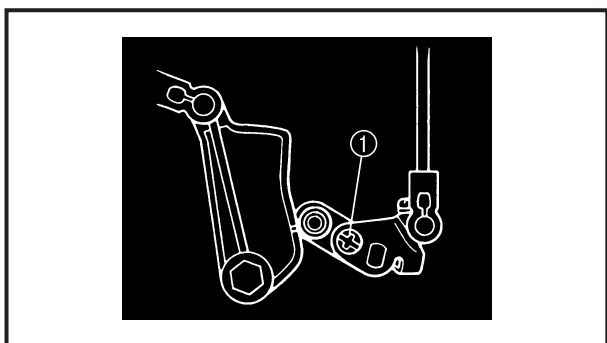
Engine idling speed
750 ± 50 r/min

Measuring steps

- Start the engine and allow it to warm up for a few minutes.
- Install the tachometer onto the spark plug lead of cylinder #1.



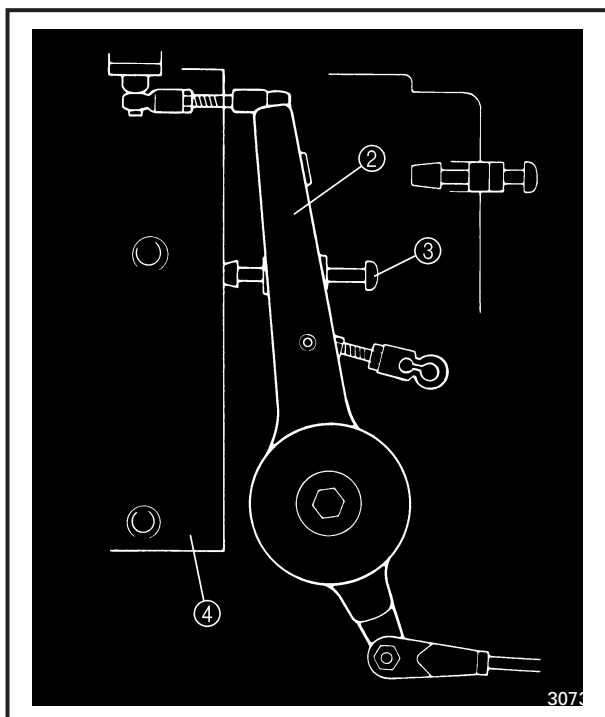
Tachometer
YU-08036-A / 90890-06760



2. Adjust:
- Engine idling speed

Adjustment steps

- Loosen the throttle roller adjusting screw ①.



3071

- (2) Start the engine and allow it to warm up for a few minutes.
- (3) Install the tachometer onto the spark plug lead of cylinder #1.



Tachometer
YU-08036-A / 90890-06760

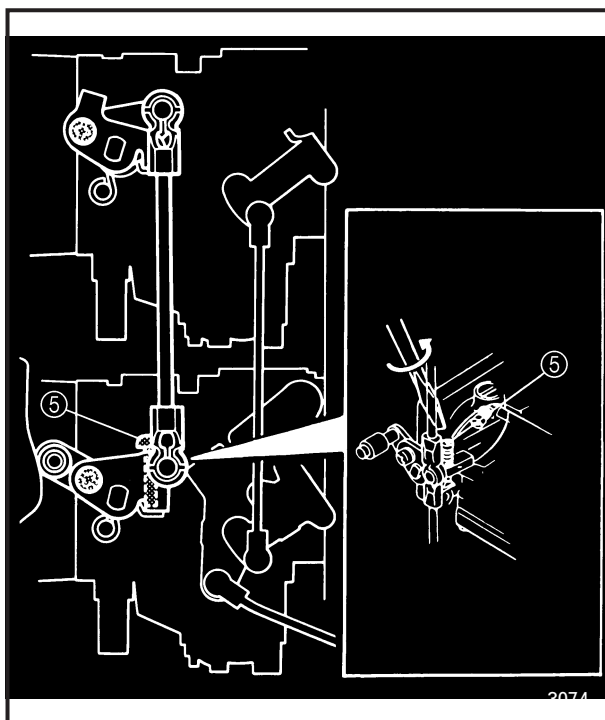
- (4) Turn the magneto control lever ② so that the full retard adjusting screw ③ contacts the crankcase ④.
- (5) Adjust the throttle stop screw ⑤ in or out until the specified engine idling speed is obtained.

Turning in	Engine idling speed increases.
Turning out	Engine idling speed decreases.



Engine idling speed
750 ± 50 r/min

- (6) Tighten the throttle roller adjusting screw ①.



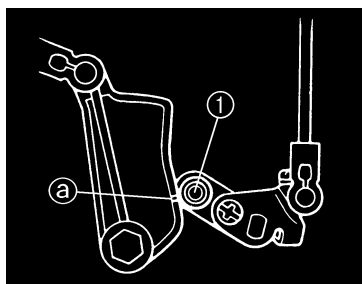
207

ADJUSTING THE CARBURETOR PICKUP TIMING

NOTE:

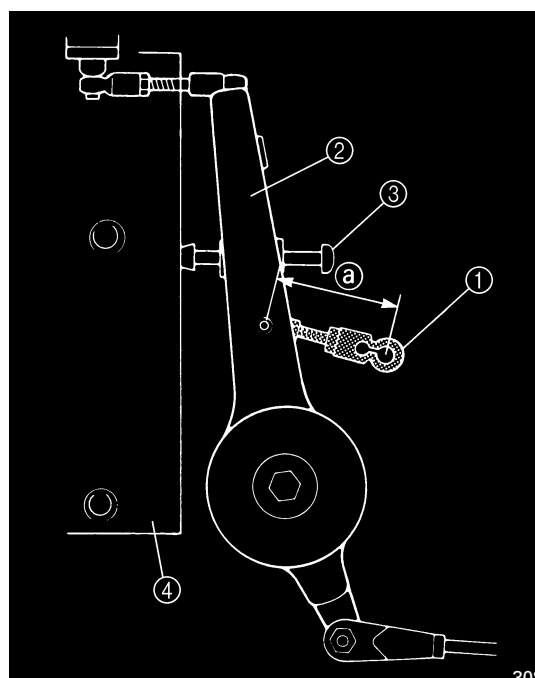
Before adjusting the carburetor pickup timing, be sure to adjust the ignition timing, carburetor synchronization and engine idling speed.

- 1. Inspect:
 - Pickup timing
Incorrect → Adjust.



Inspecting steps

- (1) Turn the magneto control lever so that the full retard adjusting screw contacts the crankcase.
- (2) Check that the mark (a) on the throttle cam aligns with the center of the throttle roller (1).



2. Adjust:

- Pickup timing

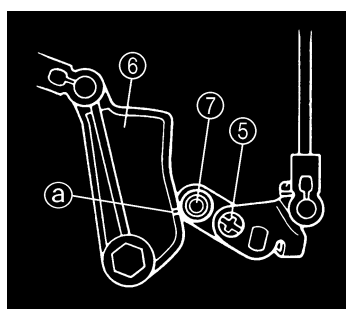
Adjustment steps

- (1) Adjust the throttle cam control link (1) to the specified length (a).



Throttle cam control link length
53.0 mm (2.09 in)

- (2) Turn the magneto control lever (2) so that the full retard adjusting screw (3) contacts the crankcase (4).



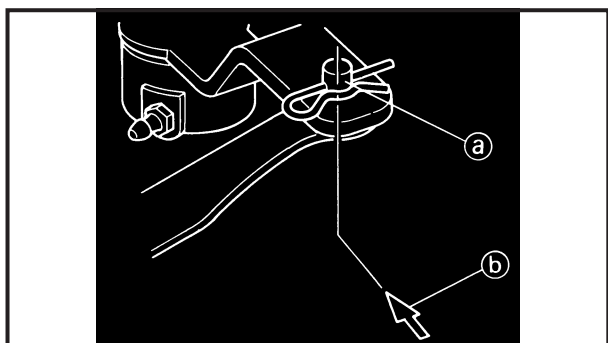
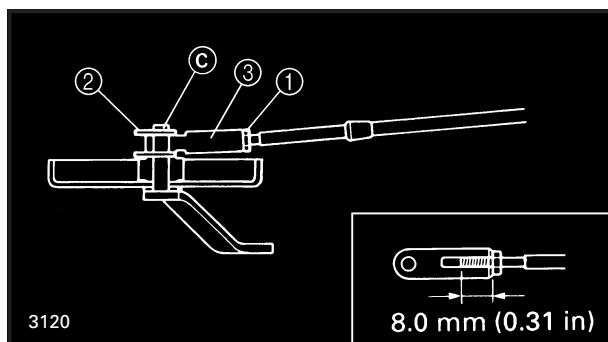
- (3) Loosen the throttle roller adjusting screw (5).
- (4) Align the mark (a) on the throttle cam (6) with the center of the throttle roller (7).
- (5) Tighten the throttle roller adjusting screw (5).

ADJUSTING THE REMOTE CONTROL SHIFT CABLE

1. Inspect:
 - Shift operation
 Incorrect → Adjust.
2. Adjust:
 - Remote control shift cable length

Adjustment steps

- (1) Loosen the locknut ①.
- (2) Remove the clip ②.
- (3) Disconnect the shift cable joint ③.
- (4) Set the remote control lever to the neutral position.
- (5) Align the center of the set pin ③ with the mark ④ on the bottom cowling.
- (6) Adjust the position of the shift cable joint until its hole aligns with the set pin ③.
- (7) Install the clip and tighten the locknut.



CAUTION:

The remote control cable joint must be screwed in more than 8 mm (0.31 in).

ADJUSTING THE REMOTE CONTROL THROTTLE CABLE

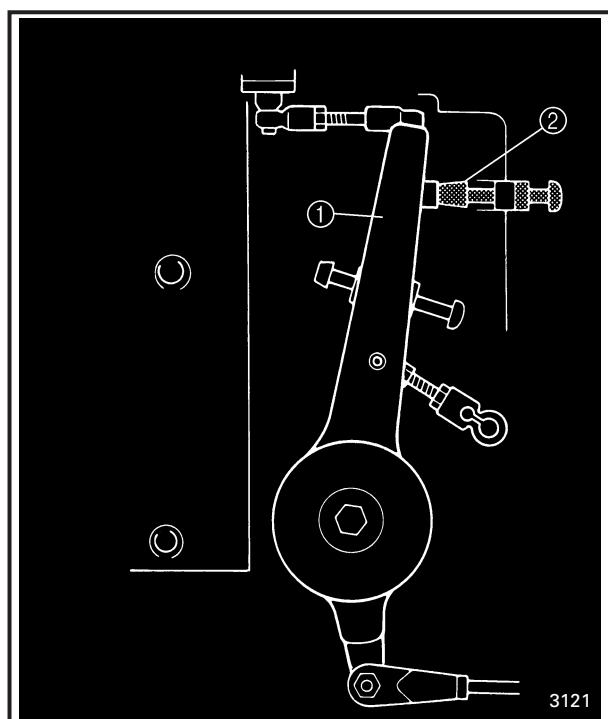
NOTE:

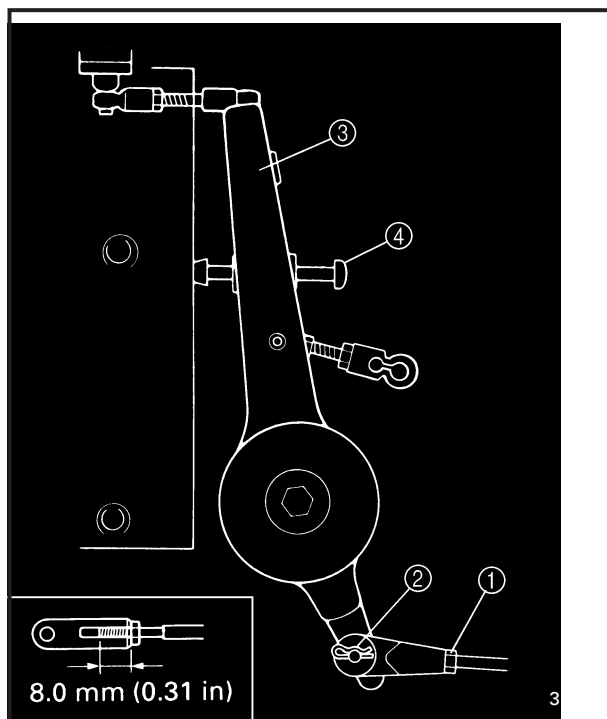
Before adjusting the remote control throttle cable, be sure to adjust the ignition timing and carburetor synchronization.

1. Inspect:
 - Throttle operation
 Incorrect → Adjust.

Inspecting steps

- (1) Turn the throttle lever fully.
- (2) Check the magneto control lever ① so that it contacts the full advance adjusting screw ②.





2. Adjust:

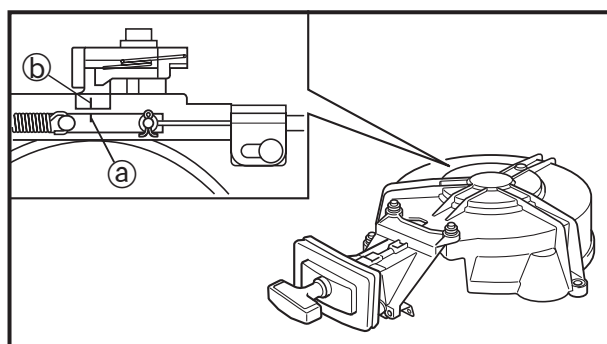
- Remote control throttle cable length

Adjustment steps

- (1) Loosen the locknut ①.
- (2) Remove the clip ②.
- (3) Disconnect the cable joint at the magneto control lever ③.
- (4) Close the throttle grip fully.
- (5) Turn the magneto control lever so that the full retard adjusting screw ④ contacts the crankcase.
- (6) Adjust the position of the throttle cable joint until its hole aligns with the set pin.
- (7) Install the clip and tighten the locknut.

CAUTION:

The remote control cable joint must be screwed in more than 8 mm (0.31 in).



ADJUSTING THE START-IN-GEAR PROTECTION (E115AMH, E115AWH)

1. Inspect:

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

2. Adjust:

- Start-in-gear protection wire adjuster position

Adjustment steps

- (1) Set the shift lever in the neutral position.
- (2) Loosen the bolt ①.
- (3) Adjust the start-in-gear protection wire adjuster ② so that the point ③ on the wire connector aligns with the mark ④ on the flywheel cover.
- (4) Tighten the bolt.

