

ENGINE - KAWASAKI (FH531V) TESTS AND ADJUSTMENTS

Tests and Adjustments

Throttle Cable Check and Adjustment

Reason:

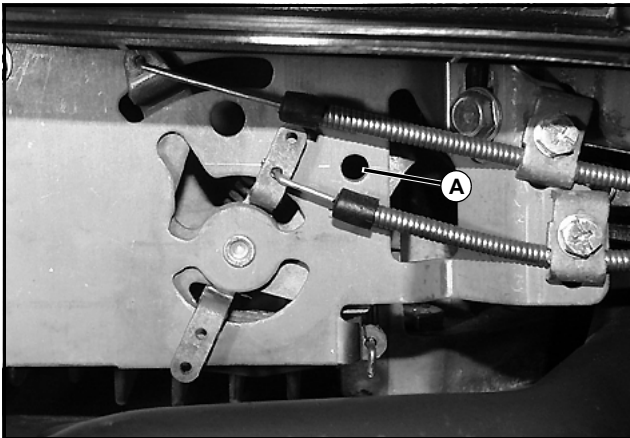
To make sure the throttle control arm contacts the slow idle stop at slow idle.

Equipment:

- 6 mm (1/4-in.) Drill Bit

Check Procedure:

1. Park machine on level surface.
2. Turn key switch OFF.
3. Move forward/reverse pedals to NEUTRAL position. Engage parking brake.
4. Remove hood.
5. Move throttle control lever from SLOW idle to FAST position.



MX0572

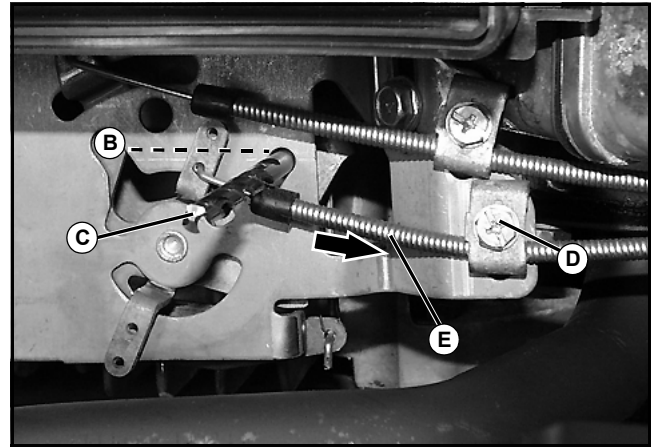
6. Check holes (A) in control panel and throttle arm. They MUST be in visual alignment.
7. Move throttle control lever into SLOW position, then back into FAST idle position. Again, holes in control panel and throttle arm MUST be aligned.

Results:

- If holes align in both positions, throttle cable is OK. Check choke cable for proper adjustment.
- If holes DO NOT align, perform ADJUSTMENT Procedure.

Adjustment Procedure:

1. Move throttle control lever to FAST idle position.



MX0573

2. Align hole in throttle arm (B) with hole in control panel. Insert a **6 mm (1/4 in.)** drill bit (C) through holes to keep throttle arm from moving. Be sure drill bit is perpendicular to the control panel.
3. Loosen screw (D).
4. Pull throttle cable (E) back (arrow) and tighten screw (D).
5. Remove drill bit.
6. Repeat CHECK Procedure.
7. Move throttle control lever through full range several times to be sure linkage is not binding.

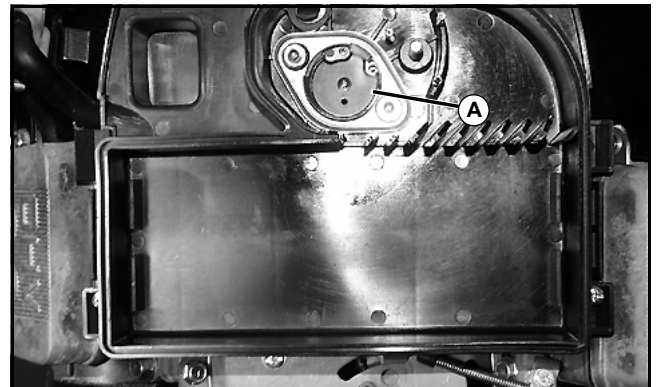
Choke Plate Check and Adjustment

Reason:

To make sure the choke plate fully opens and closes.

Check Procedure:

1. Remove air cleaner cover and air filter.



MX0574

2. Move choke control lever to full CHOKE position. Check that choke valve (A) is fully closed.
3. Move choke control lever to fully open position. Check that choke valve is fully open.

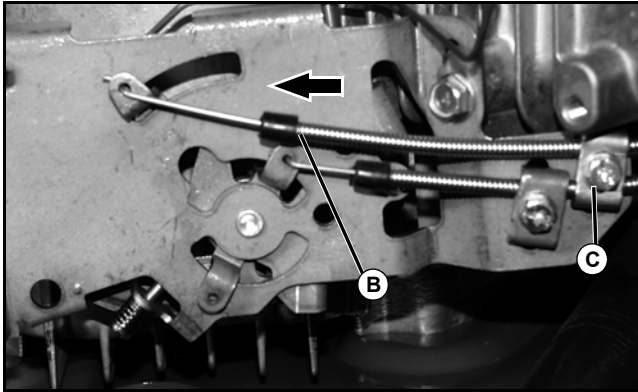
ENGINE - KAWASAKI (FH531V) TESTS AND ADJUSTMENTS

Results:

- If the choke plate does not fully open and close proceed with the Adjustment Procedure.

Adjustment Procedure:

1. Move choke control lever to OFF (open) position.



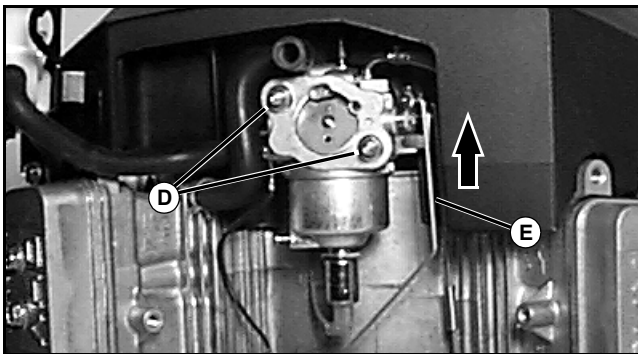
M99936

2. Loosen cable retainer screw (C).
3. Push choke cable (B) out (arrow) until the choke plate is full open and tighten screw.
4. Repeat CHECK Procedure.

Results:

If the choke plate will not fully close or the choke control lever will not move to the fully closed position after the choke cable has been adjusted, the choke rod may not be bent to the correct position. Proceed with the following steps.

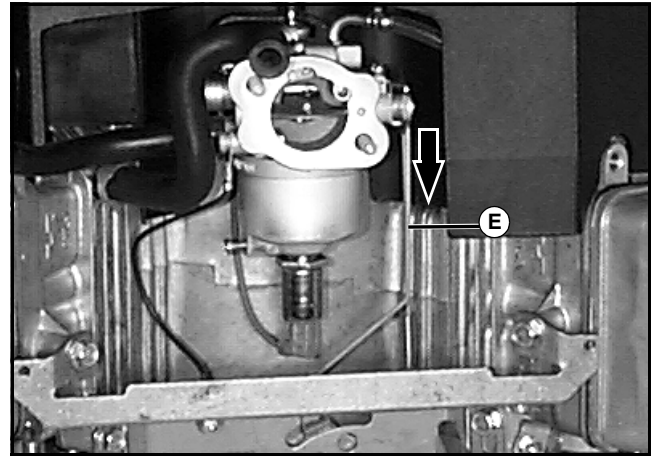
1. Remove the two screws and two nuts that hold the air cleaner base to the carburetor.
2. Carefully pull air cleaner base away from carburetor and remove crankcase vent tube from back of air cleaner base.
3. Place both nuts (D) back on carburetor studs and secure finger tight only.



M95376

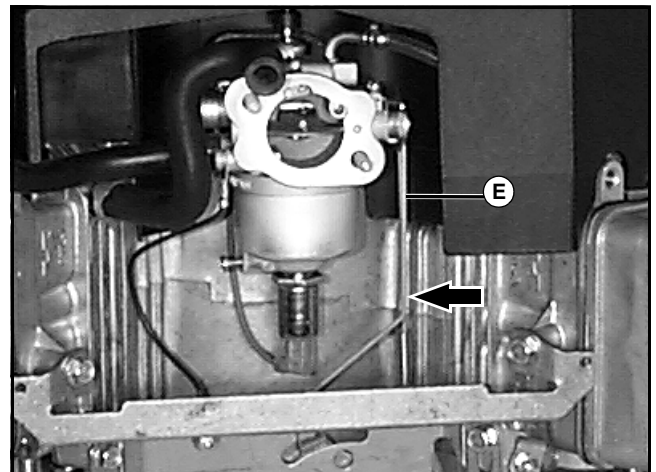
4. Try to move choke rod (E) toward carburetor (arrow). Choke rod should NOT move. If choke rod moves up, the choke plate is not fully closed.

5. Move choke control lever to OFF position.



M95379

6. Try to move choke rod (E) down toward control panel (arrow). Choke rod should NOT move. If choke rod moves down, the choke plate is not fully open.



M95379

7. Carefully bend the choke rod (E) at the corner (arrow) to balance the open and closed position of the choke valve plate.

NOTE: Bending the rod more will open the choke, while bending the rod straighter will close the choke valve.

8. Repeat CHECK Procedure.
9. Move choke lever through full range to be sure linkage is not binding.

ENGINE - KAWASAKI (FH531V) TESTS AND ADJUSTMENTS

Governor Static Adjustment

Reason:

To make sure the governor shaft contacts the fly-weight plunger when the engine is stopped.

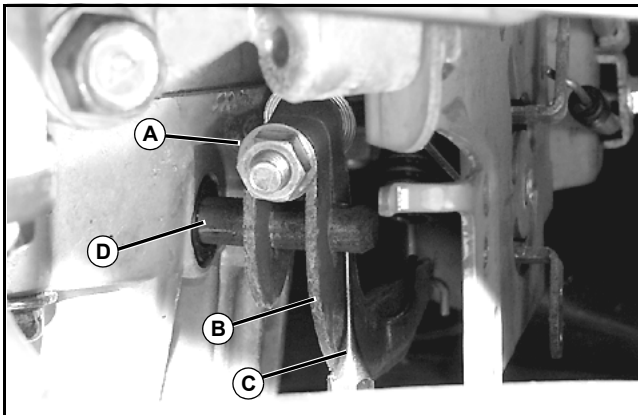
Procedure:



CAUTION: Avoid Injury! Muffler will be HOT. Be careful not to burn hands. Allow engine and muffler to cool before adjusting the governor.

NOTE: Adjust throttle cable and choke plate before adjusting governor linkage.

1. Park machine on level surface.
2. Turn key switch OFF.
3. Move forward/reverse pedals to NEUTRAL position. Engage parking brake.
4. Check throttle cable and choke plate adjustment.
5. Move throttle control lever to FAST idle position.



MX0578

6. Loosen nut (A).
7. Hold governor arm (B) in the fully clockwise.
8. Using a small pin (C) placed through the governor shaft (D), rotate shaft counterclockwise as far as it will go.
9. Hold governor shaft and governor arm in place and tighten nut to **7.8 N•m (69 lb-in.)**.
10. Move throttle control lever through full range to be sure linkage is not binding.

Slow Idle Speed Adjustment

Reason:

To set engine slow idle rpm.

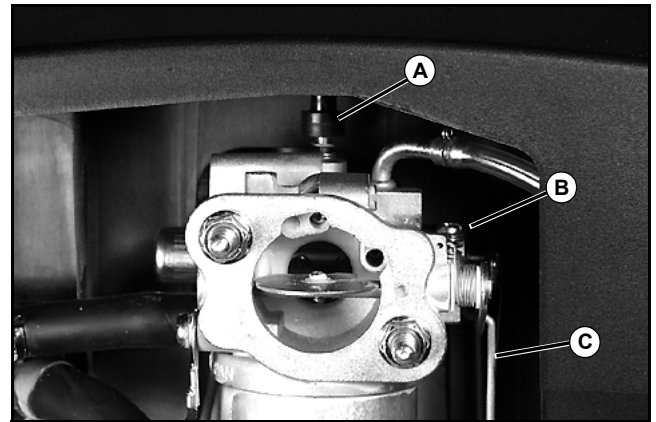
Equipment:

- JTO7270 Digital Pulse Tachometer, or
- JT05719 Photo Tachometer

Procedure:

1. Park machine on level surface.
2. Turn key switch OFF.
3. Move forward/reverse pedals to NEUTRAL position. Engage parking brake.
4. Remove hood.
5. Ensure throttle cable and choke cable are properly adjusted.
6. Put reflective tape (if photo tachometer is used) on blower housing screen.

NOTE: Idle mixture is factory set. Access idle mixture screw and slow idle stop screw through holes in front shroud. DO NOT force the idle mixture screw.



M99560

Air Filter and Housing Removed for Clarity

7. Start and run engine at MEDIUM idle for five minutes.
8. Move throttle control lever to SLOW idle position.
9. Initial Adjustment: Turn idle mixture screw (A) clockwise until it contacts the limiter stop. Then turn idle mixture screw counterclockwise (approximately 1/2 turn) until it contacts the limiter stop. Turn idle mixture screw clockwise to midpoint.
10. Turn idle mixture screw until best idle is obtained.
11. Pull throttle lever rod (C) down until movement stops (holds the throttle lever on the carburetor in the closed position and turns the governor arm clockwise all the way) when the idle stop screw (B) is contacted.



Suggest:

If the above button click is invalid.

**Please download this document
first, and then click the above link
to download the complete manual.**

Thank you so much for reading