



Throttle Repair Kits - 254887, 254886 for 20-150 ROZ Generator Sets (Cummins B & C Series Engines)

The throttle repair kits replace the governor throttle spring with a ball joint linkage to hold the governor throttle lever in the full-open position. (See Service Bulletin 496.) Observe the following safety precautions during kit installation. Reference the appropriate installation drawing in Figure 1 to identify and assemble kit components.



Accidental starting can cause death or serious personal injury. Turn Generator Master Switch to OFF position, disconnect power to battery charger, and remove battery cables (remove negative lead first and reconnect it last) to disable generator set before working on any equipment connected to generator. The generator set can be started by automatic transfer switch or remote start/stop switch unless these precautions are followed.



Exposed moving parts can cause severe injury. Keep hands, feet, hair, and clothing away from belts and pulleys when unit is running. Replace guards, covers, and screens before operating generator set.

CAUTION



Hot parts can cause personal injury.

Do not touch hot engine parts. An engine gets hot while running and exhaust system components get extremely hot.

Kit Installation

1. Disconnect engine battery cables (negative lead first) to disable generator set.
2. Disconnect spring from governor throttle lever and spring bracket. Discard spring.
3. **(Sets with C-series engines only).** Remove hardware securing spring bracket to engine block and throttle bracket to governor arm. Discard brackets. Using existing hardware, install new mounting bracket (254492) as shown in Figure 1. Attach throttle bracket (254491) to governor throttle arm with hardware supplied. If the set is equipped with a type "A" injection pump, the throttle bracket should be installed in 11 o' clock position (as viewed from side of engine). The throttle bracket should be installed in 1 o' clock position on type "MW" pumps. Refer to the fifth or sixth character (typically) in the alphanumeric code on the injection pump to determine pump type.
4. Assemble rod and ball joint linkage as shown in installation drawing. Attach

linkage to governor throttle arm with hardware indicated in Figure 1. Do not connect linkage to mounting bracket until next step.

5. To correctly set throttle rod length, rotate throttle lever counterclockwise until lever stops against the fast idle adjusting screw. Attach ball joint on free end of rod to mounting bracket and secure with lock nut (X-101-7). When properly adjusted, the governor throttle lever will be in the full-open position.

6. Reconnect generator starting battery, negative lead last.
7. Start generator set. Using a tachometer or frequency meter on controller (if equipped), check engine full load speed. Engine speed should be 1800 rpm at 60 Hz and 1500 at 50 Hz operation. If engine full load speed is not correct, proceed to "Governor Adjustment" following and the engine or generator service manual.

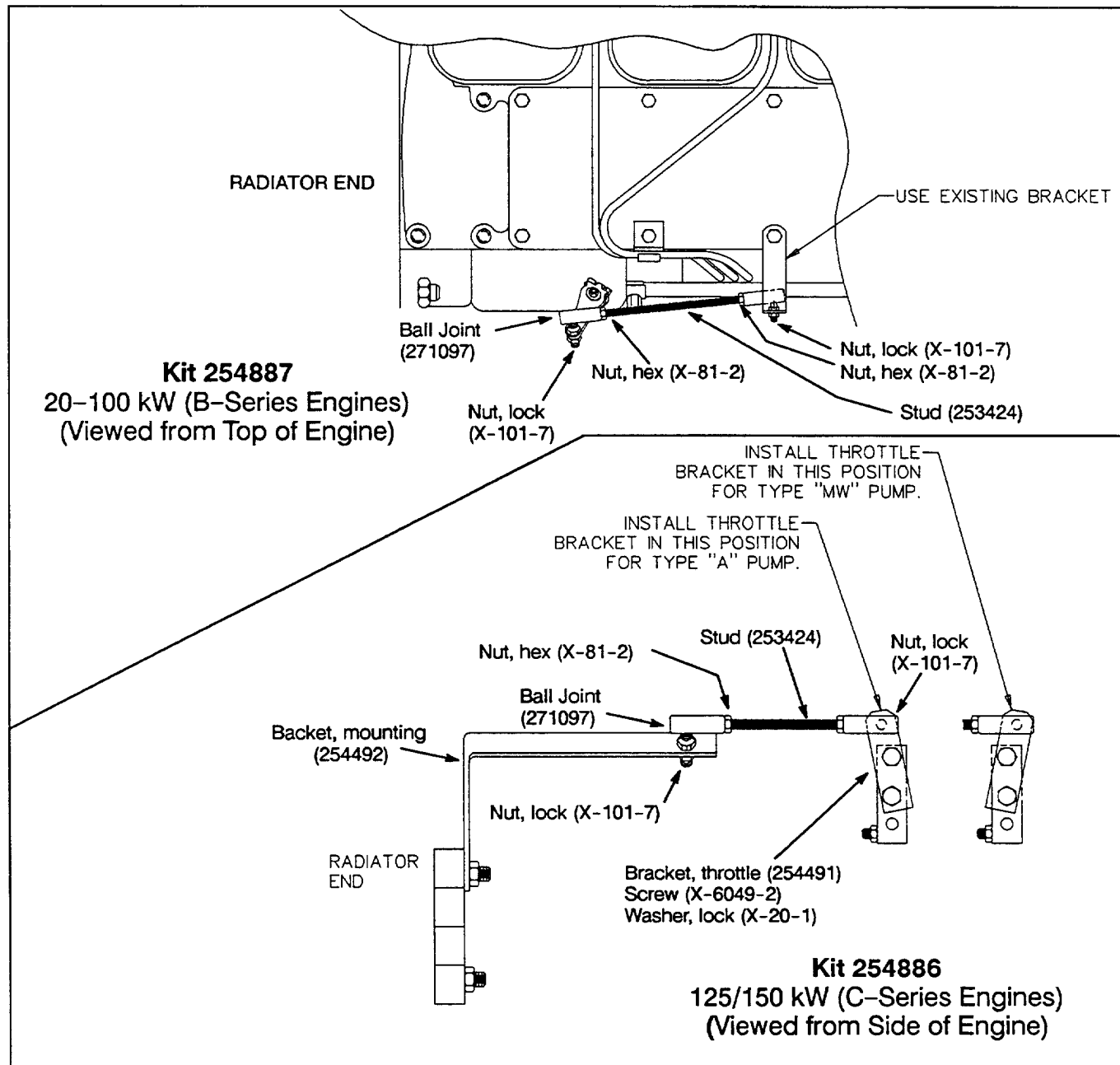


Figure 1. Throttle Repair Kits

Governor Adjustment

1. Start the generator set and check engine speed using a tachometer or controller frequency meter (if equipped).
2. Loosen the fuel pump high speed screw locknut to make engine speed adjustment.
3. To increase or decrease the frequency (at no load), rotate the high speed screw clockwise or counterclockwise respectively. Tighten the locknut

The loaded droop frequency may alternately be adjusted to the operating frequency at full load. Apply the full load to the generator set by closing the generator circuit breaker and then make adjustments to the fuel pump screw.

The stability of the frequency is not adjustable; it is present via the fuel pump.

PARTS LISTING

Description	Qty.	Kit 254886	Kit 254887
Nut, lock	2	X-101-7	X-101-7
Washer, lock 1/4	2	X-20-1	
Screw, H.C. M6 x 1 x 16	2	X-6049-2	
Nut, hex 1/4-28	2	X-81-2	X-81-2
Stud	1	253424	253424
Bracket, throttle	1	254491	
Bracket, mounting	1	254492	
Joint, ball	2	271097	271097