680B AND 680C LOADER BACKHOE

Table of Contents

SERIES/SECTION	SECTION NO.	FORM NO.
50 SERIES - STEERING		
Hydrostatic Steering System, Series B Prior to SN 9103967	None	9-71981
Steering System, Series B with SN 9103967 and After and Series C	51	9-71982
60 SERIES - POWER TRAIN		
4-Speed Synchromesh Transmission Series C	64	9-71982
Differential and Planetaries, Series C	67	9-71982
4-Speed Mechanical Transmission and Differential Brakes, Series C	S	9-77341
Supplement to Section S	None	9-77342
Forward-Reverse Transmission and Torque Converter	SS	9-71981
Forward-Reverse Transmission	SS, Sup. 1	9-71982
Trouble Shooting the Forward-Reverse Transmission	SS, Sup. 2	9-71982
Forward-Reverse Transmission and Torque Converter	SS, Sup. 3	9-71982
70 SERIES - BRAKES		
Brakes, Series C	71	9-71982
Hydraulic Brake System, Series B	3S	9-71981

NOTE: For units equipped with Differential Brakes, refer to Section S in 60 Series.

80 SERIES - ELECTRICAL		
Electrical System, Series B	F	9-71981
Electrical, Series C	82	9-71982
90 SERIES - MOUNTED EQUIPMENT		
Loader	None	9-71981
Loader Supplement, Series C	92	9-71982
Model 36 Backhoe	None	9-71981
Model 36 Backhoe	Sup. 1	9-71982

NOTE: Powrcel Engines were on units with SN 9102281 to 9103966. "Open Chamber" engines on all units thereafter. First Series C unit was SN 9106000.

SECTION

I

THROTTLE CONTROLS AND LINKAGE

ADJUSTMENT/INSTALLATION OF THROTTLE LINKAGE

Specifications

Low idle speed, no load	750 RPM
High idle speed, no load	2125 to 2175 RPM

Checking the Adjustment

HIGH IDLE TOO HIGH (ABOVE 2175 RPM)

Service the injection pump. Refer to Section I of the Fuel System.

HIGH IDLE TOO LOW (BELOW 2125 RPM)

Make the following check to determine if the fault is in the throttle linkage or injection pump:

1. Refer to Figure 1, Inset B. Disconnect the throttle link rod at the injection pump governor control lever.

2. Start the engine and move the control lever against the high speed adjusting screw.

3. If high idle speed is still below 2125 RPM, service the injection pump. See Section I, Fuel System. If high idle speed is now 2125-2175 RPM, adjust the throttle linkage. See "Idle Speed Adjustments" below.

Idle Speed Adjustment

LOW IDLE SPEED ADJUSTMENT

1. Check and adjust (if required) the accelerator linkage as described under "Accelerator Linkage Installation" below.

2. Adjustment of low idling speed can be made at the throttle link adapter block. See Figure 1, Inset A.

   a. If low idle speed is too LOW, adjust the throttle link adapter block FORWARD on the throttle rod.

   b. If low idle speed is too HIGH, adjust the throttle link adapter block REARWARD on the throttle rod.

NOTE: If problem is a "hunting" condition (Low idle speed drops to a very low RPM, then speeds up), refer to Section I, Fuel System for adjustments of injection pump.

HIGH IDLE SPEED ADJUSTMENT

3. With the low idle speed properly adjusted, start the engine and adjust the pedal stop bolt to contract the bottom of the pedal when engine speed is at 2125-2175 RPM. Tighten the jam nut.

Installation

ACCELERATOR LINKAGE INSTALLATION

1. Position linkage in fuel shutoff position by depressing fuel shutoff pedal.

2. Refer to Figure 1. Loosen jam nuts on accelerator link rod and adjust alinabals to the 7-1/2" dimension.

3. With backhoe throttle cable in fully closed position, adjust the cable at the yoke until the throttle shaft control plate is in contact with the throttle shaft bracket within 1/16" or less.

THROTTLE ROD INSTALLATION

Refer to Figure 1, Inset A.

1. Install the throttle link adapter block on the throttle rod so it extends approximately 1-5/16" rearward. Tighten the jam nuts.

2. Start the engine and allow it to idle. Engine speed should be 750 RPM. If not, make the adjustment described under "Low Idle Speed Adjustment" above.

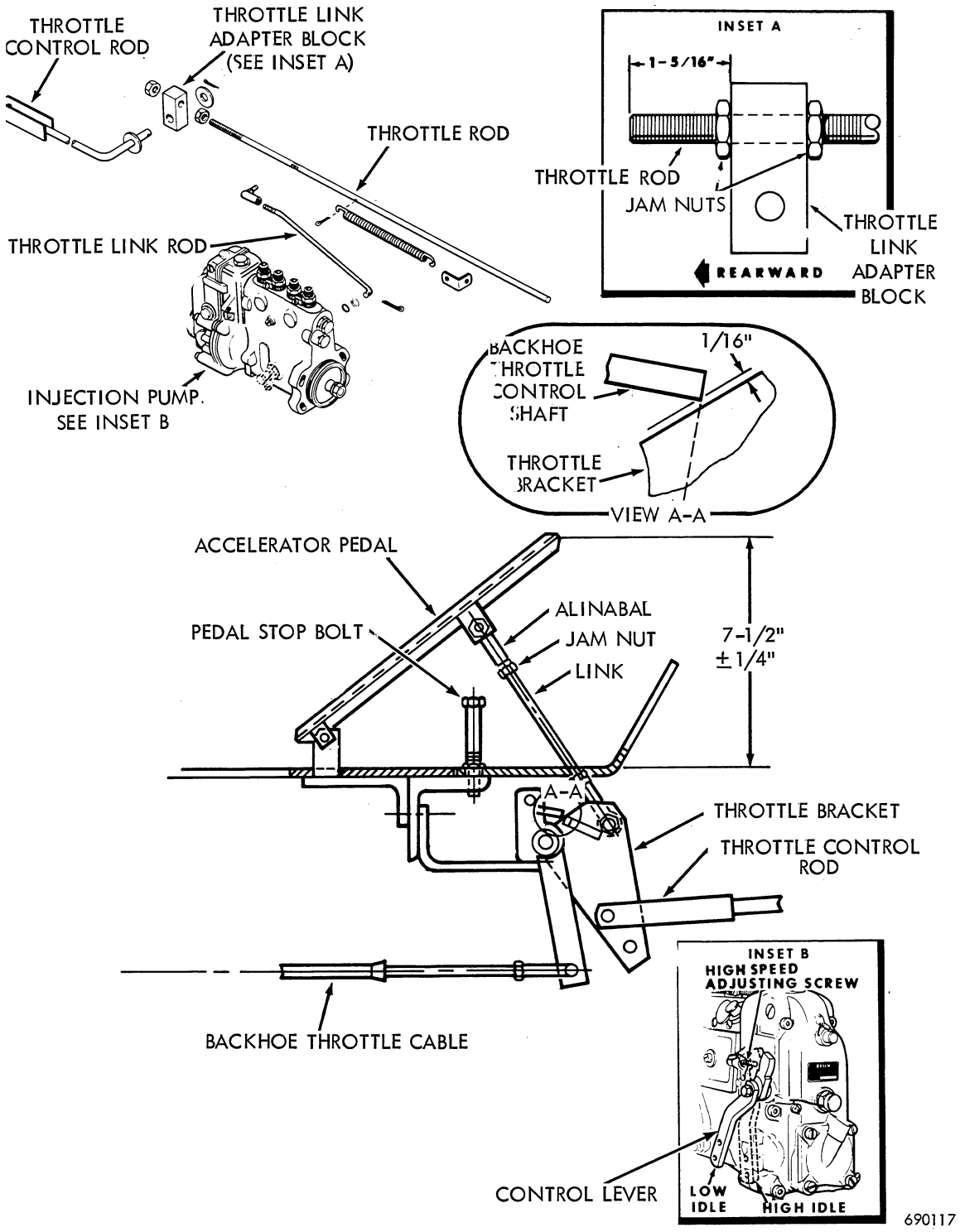
THROTTLE CONTROL ROD
THROTTLE LINK ADAPTER BLOCK (SEE INSET A)
THROTTLE ROD
THROTTLE LINK ROD
INJECTION PUMP. SEE INSET B
INSET A
1-5/16"
THROTTLE ROD JAM NUTS
THROTTLE LINK ADAPTER BLOCK
REARWARD
BACKHOE THROTTLE CONTROL SHAFT
1/16"
THROTTLE BRACKET
VIEW A-A
ACCELERATOR PEDAL
PEDAL STOP BOLT
ALINABAL
JAM NUT
LINK
7-1/2" ±1/4"
A-A
THROTTLE BRACKET
THROTTLE CONTROL ROD
BACKHOE THROTTLE CABLE
INSET B
HIGH SPEED ADJUSTING SCREW
CONTROL LEVER
LOW IDLE
HIGH IDLE
690117

Figure 1

Thank you so much for reading.

Please click the “Buy Now!” button below to download the complete manual.

After you pay.

You can download the most perfect and complete manual in the world immediately.

Our support email:

ebooklibonline@outlook.com