KOBELCO

SERVICE MANUAL

HYDRAULIC EXCAVATOR

SK290LC

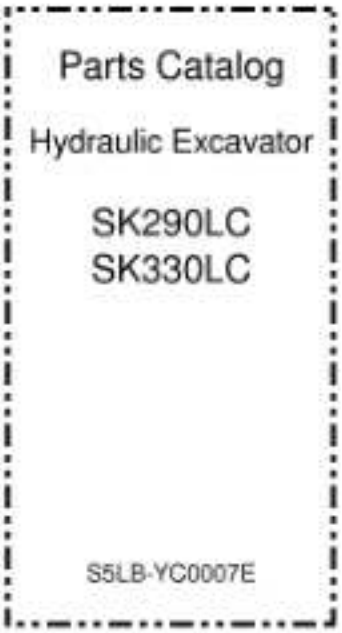
SK330LC

Applicable: SK290LC LB03-U0101~
Applicable: SK330LC YC06-U0101~

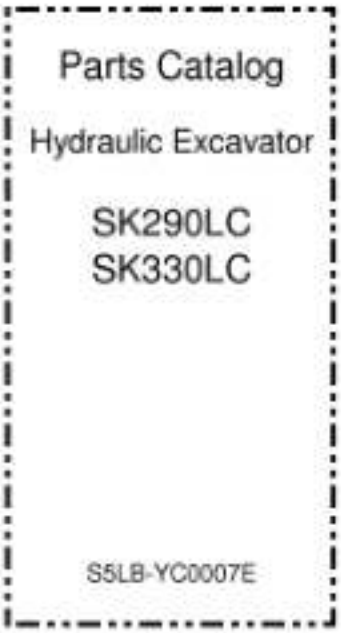
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1. Trim along the dotted line
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SHOP MANUAL

SK290LC
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SAFETY

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(10) Disassembling carrier 1 ass'y

CAUTION !

When carrier pins 1(3) are to be re-used, mark each pin with its mated hole of carrier 1(2) to assure the same combination as before.

1) Knock spring pins(7) fully into carrier pins 1(3).

2) Tap carrier pins 1(3) out from carrier 1(2).

3) Remove thrust washers 1(5), planetary gears 1(6) and needle bearings(4).

4) Knock out spring pins(7) from carrier pins 1(3) for reassembling.

CAUTION !

When carrier pin 1(3) or planetary gear 1 (6) is needed to be exchanged, three pins or three gears should be all exchanged.



Fig.14 Disassembling carrier 1 ass'y

(11) Disassembling carrier 2 ass'y.

CAUTION !

When carrier pins 2(12) are to be re-used, mark each pin with its mated hole of carrier 2(11) to assure the same combination as before.

1) Knock spring pins(15) fully into carrier pins 2 (12).

2) Tap carrier pins 2(12) out from carrier 2 (11).

3) Remove planetary gears 2(14) and spherical roller bearings(13).

4) Knock out spring pins(15) from carrier pins 2(12) for reassembling.

CAUTION !

When carrier pin 2(12) or planetary gear 2(14) is needed to be exchanged, three pins or three gears should be all exchanged.



Fig.15 Disassembling carrier 2 ass'y

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TRAVEL PERFORMANCE

TRAVEL SPEED

A. Tools & Equipment

1. Stopwatch
2. Device to mark starting point of tracks.

B. Machine Settings & Site Condition

1. Machine throttle in "High" idle position.
2. Test will be performed with KPSS Mode Switch in "M".
3. Hydraulic oil temperature at 45°C to 55°C (113°F to 131°F).
4. Firm, level testing area.
5. Verify that engine RPM's are at correct specification.

C. Travel Speed Test

1. Move machine to a firm, level testing area.
2. Allow the hydraulic oil to reach a te perature of 45°C to 55°C (113°F to 131°F).
3. Operate Swing Right Control until mchine is sitting across (perpendicular) tracks.
4. Operate the Boom, Arm and Bucket Controls until bucket is on ground. See Figure 7.4.
5. Operate Boom Control until bottom of right track is approximately 300mm (12") off ground. See Figure 7.4. Make reference mark on track.
6. Place Throttle Control in "HI-IDLE" position and KPSS Switch in "M" Mode. See Figure 7.5.
7. Place Travel Speed Select Switch in 1( ) Speed. See Figure 7.6.
8. Operate the Right Travel Control full forward and measure the time it takes for track to make three complete revolutions. Record the time.
9. Repeat Step 7 ands 8 two more times. Averagethe readings and compare to Travel Speed Specification Chart.
10. Place Travel Speed Select Switch in 2( ) speed and repeat steps 8 and 9.
11. Repeat steps 4 through 13 with Left Track approximately 300mm (12") off ground.

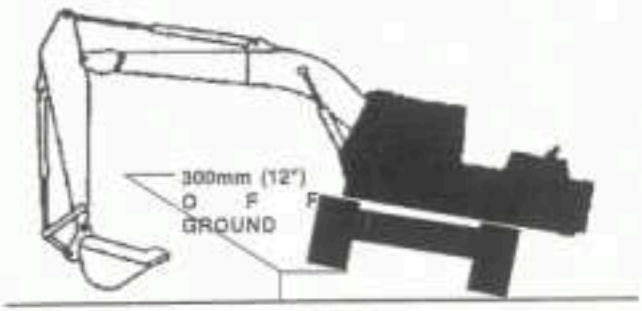


FIGURE 7.4
SK210 - SK400 ILLUSTRATED

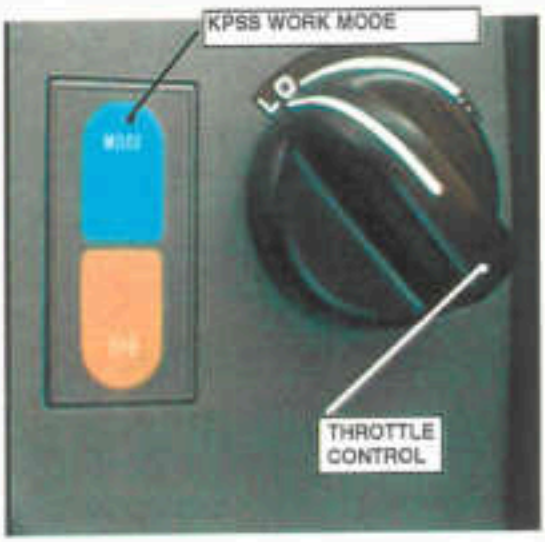


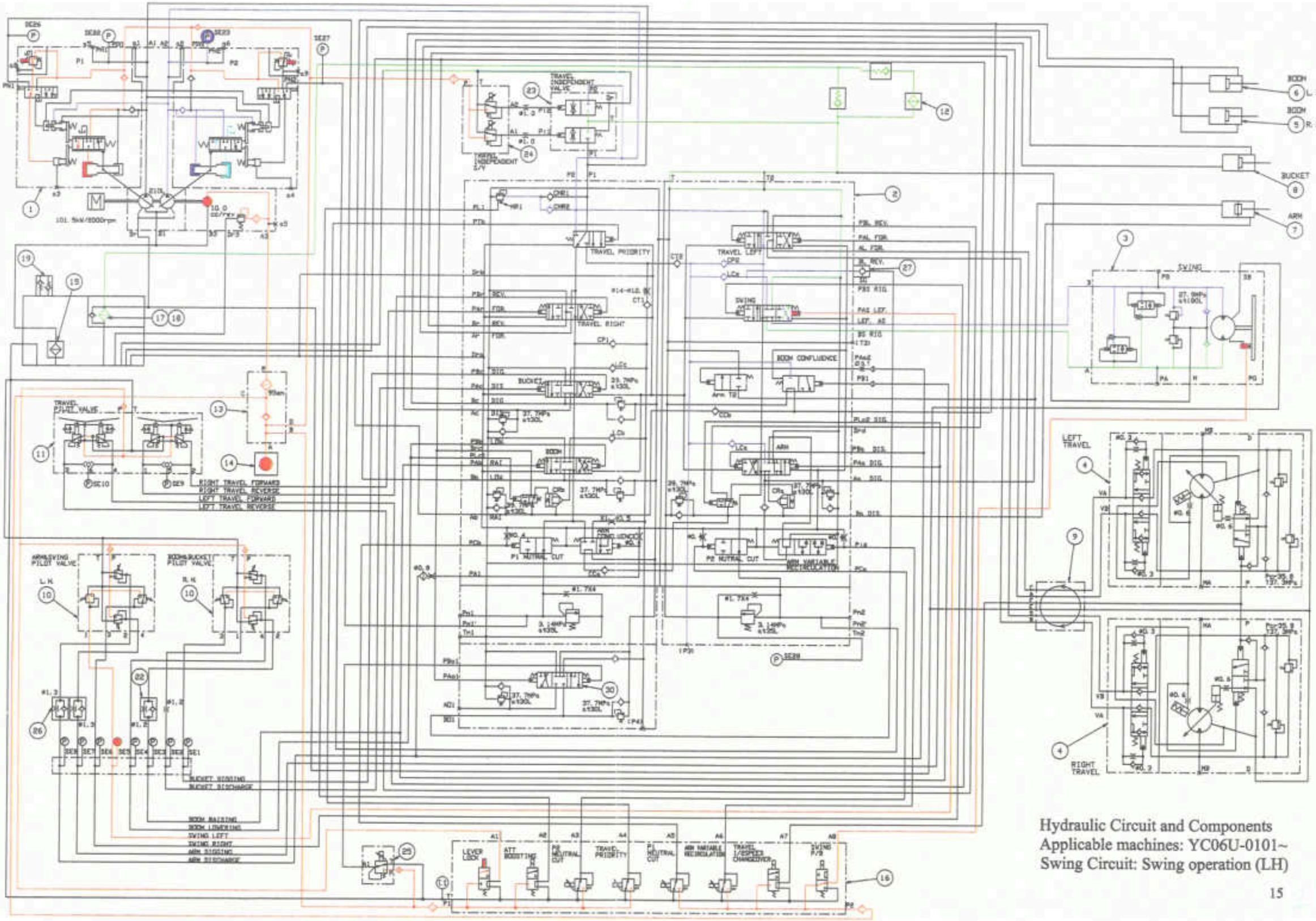
Figure 7.5



Figure 7.6

Unit: Seconds

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Hydraulic Circuit and Components
Applicable machines: YC06U-0101~
Swing Circuit: Swing operation (LH)

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