WSM

WORKSHOP MANUAL

TRACTOR,MOWER, FRONT LOADER

BX1870,BX2370,BX2670, RCK48-18BX,RCK54-23BX, RCK60B-23BX, RCK48P-18BX,RCK54P-23BX, RCK54D-26BX,RCK60D-26BX, LA203A,LA243A

Kubota

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INFORMATION

CONTENTS

1. SAFETY FIRST I-1
2. SAFETY DECALS I-4
   [1] BX TRACTOR I-4
   [2] MOWER I-8
   [3] FRONT LOADER I-12
3. SPECIFICATIONS I-14
   [1] BX TRACTOR I-14
   [2] MOWER I-15
      (1) RCK48-18BX, RCK54-23BX, RCK60B-23BX, RCK48P-18BX and RCK54P-23BX I-15
      (2) RCK54D-26BX and RCK60D-26BX I-16
   [3] FRONT LOADER I-17
4. TRAVELING SPEEDS I-20
5. DIMENSIONS I-21

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GENERAL

CONTENTS

1. IDENTIFICATION G-1
   [1] TRACTOR IDENTIFICATION G-1
      (1) Serial Number and Hour Meter G-1
      (2) Cylinder Number G-2
   [2] MOWER IDENTIFICATION G-2
   [3] FRONT LOADER IDENTIFICATION G-2
2. GENERAL PRECAUTIONS G-3
3. HANDLING PRECAUTIONS FOR ELECTRICAL PARTS AND WIRING G-4
   [1] WIRING G-4
   [2] BATTERY G-6
   [3] FUSE G-6
   [4] CONNECTOR G-6
   [5] HANDLING OF CIRCUIT TESTER G-7
   [6] COLOR OF WIRING G-8
4. LUBRICANTS, FUEL AND COOLANT G-9
   [1] BX Tractor G-9
      (1) Capacity Table G-9
      (2) Engine Oil, Fuel and Transmission Oil G-10
   [2] MOWER G-12
      (1) Lubricants G-12
   [3] FRONT LOADER G-12
      (1) Lubricants G-12
5. TIGHTENING TORQUES G-13
   [1] GENERAL USE SCREWS, BOLTS AND NUTS (TRACTOR AND MOWER) G-13
   [2] GENERAL USE SCREWS, BOLTS AND NUTS (FRONT LOADER) G-14
   [3] STUD BOLTS G-14
   [4] METRIC SCREWS, BOLTS AND NUTS G-15
   [5] AMERICAN STANDARD SCREWS, BOLTS AND NUTS WITH UNC OR UNF THREADS G-15
   [6] PLUGS G-15
   [7] HYDRAULIC FITTINGS G-16
      (1) Adaptors, Elbows and Others G-16
6. MAINTENANCE CHECK LIST G-17
   [1] BX TRACTOR G-17
   [2] MOWER G-18
   [3] FRONT LOADER G-19
7. CHECK AND MAINTENANCE G-20
   [1] BX TRACTOR G-20
      (1) Daily Check G-20
      (2) Check Points of Initial 50 Hours G-21
      (3) Check Points of Every 50 Hours G-23
      (4) Check Points of Every 100 Hours G-26
      (5) Check Points of Every 200 hours G-31
      (6) Check Points of Every 400 Hours G-32
      (7) Check Point of Every 800 Hours G-34
      (8) Check Point of Every 1000 Hours or 1 year G-34
      (9) Check Point of Every 1500 Hours G-34
      (10)Check Point of Every 2000 Hours or 2 Years G-35
      (11)Check Point of Every 3000 Hours G-37

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SERVICING

CONTENTS

1. TROUBLESHOOTING 1-S1
2. SERVICING SPECIFICATIONS 1-S4
   [1] BX1870D (D722-E4) and BX2370D (D902-E4) 1-S4
   [2] BX2670D (D1005-E4) 1-S9
3. TIGHTENING TORQUES 1-S15
4. CHECKING, DISASSEMBLING AND SERVICING 1-S17
   [1] CHECKING AND ADJUSTING 1-S17
      (1) Engine Body 1-S17
      (2) Lubricating System 1-S19
      (3) Cooling System 1-S20
      (4) Fuel System 1-S22
   [2] DISASSEMBLING AND ASSEMBLING 1-S26
      (1) Separating Engine 1-S26
      (2) Removing Outer Parts 1-S29
      (3) Cylinder Head and Valves 1-S29
      (4) Gear Case and Timing Gears 1-S33
      (5) Piston and Connecting Rod 1-S37
      (6) Flywheel and Crankshaft 1-S39
   [3] SERVICING 1-S41
      (1) Cylinder Head and Valves 1-S41
      (2) Timing Gears, Camshaft and Governor Gear 1-S49
      (3) Piston and Connecting Rod 1-S53
      (4) Crankshaft 1-S57
      (5) Cylinder 1-S65
      (6) Oil Pump 1-S66
      (7) Relief Valve Spring 1-S68

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(Continued)

[BX2670D (D1005-E4)]

Oil clearance between crankshaft journal and crankshaft bearing 2	Factory specification	0.034 to 0.095 mm 0.0014 to 0.0037 in.
	Allowable limit	0.20 mm 0.0079 in.

Crankshaft journal O.D. (Intermediate)	Factory specification	47.934 to 47.950 mm 1.8872 to 1.8877 in.
Crankshaft bearing 2 I.D.	Factory specification	47.984 to 48.029 mm 1.8892 to 1.8909 in.

Oil clearance between crankshaft journal and crankshaft bearing 3	Factory specification	0.034 to 0.098 mm 0.0013 to 0.0038 in.
	Allowable limit	0.20 mm 0.0079 in.

Crankshaft journal O.D. (Flywheel side)	Factory specification	51.921 to 51.940 mm 2.0442 to 2.0448 in.
Crankshaft bearing 3 I.D.	Factory specification	51.974 to 52.019 mm 2.0463 to 2.0479 in.

(Reference)

- Undersize dimensions of crankshaft journal

Undersize	**0.20 mm 0.0079 in.**	**0.40 mm 0.16 in.**
Dimension **A**	2.3 to 2.7 mm radius 0.091 to 0.10 in. radius	2.3 to 2.7 mm radius 0.091 to 0.10 in. radius
*Dimension **B**	1.0 to 1.5 mm relief 0.040 to 0.0591 in. relief	1.0 to 1.5 mm relief 0.040 to 0.0591 in. relief
Dimension **C**	47.734 to 47.750 mm dia. 1.8793 to 1.8799 in. dia.	47.534 to 47.550 mm dia. 1.8715 to 1.8720 in. dia.
Dimension **D**	51.721 to 51.740 mm dia. 2.0362 to 2.0370 in. dia.	51.521 to 51.540 mm dia. 2.0284 to 2.0291 in. dia.
The crankshaft journal must be fine-finished to higher than Rmax=0.8S. *Holes to be de-burred and edges rounded with 1.0 to 1.5 mm (0.040 to 0.059 in.) relief.		

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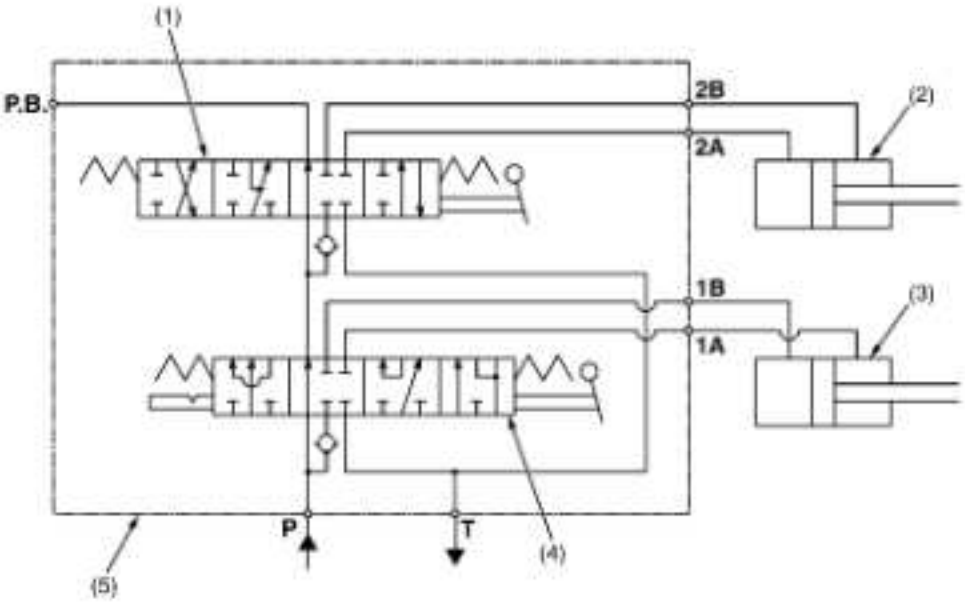
1. TROUBLESHOOTING

Symptom	Probable Cause	Solution	Reference Page
Blade Does Not Turn	Mid-PTO system malfunctioning	Check transmission	2-S39
	Mower belt broken	Replace mower belt	7-S18
Blade Speed Is Slow	Mower belt loosen	Replace mower belt or tension spring	7-S18
	Grass clogged	Remove grass	–
	Cup washer flattened out or worn	Replace cup washer	7-S20
	Engine rpm too low	Mow at full throttle, check and reset engine rpm	–
Cutting Is Poor	Mower blade worn or broken	Sharpen or replace mower blade	7-S20
	Mower blade screw loosen	Retighten mower blade screw	7-S20
	Cutting height improper	Adjust cutting height	7-S13 to 7-S16
	Ground speed too fast	Slow-down	–
	Low tire inflation	Add air to correct	G-64
	Anti-scalp rollers not adjusted correctly	Adjust anti-scalp rollers	7-S16
Mower Is Not Lifted	Linkage system broken	Replace linkage system	7-S13
	Trouble of hydraulic system	Check hydraulic system	–

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1. HYDRAULIC CIRCUIT SCHEMATIC



3TAAAAGLP001A

(1) Bucket Control Valve
(2) Bucket Cylinder
(3) Boom Cylinder
(4) Boom Control Valve
(5) Control Valve Assembly

P: From Pump
P.B.: To 3 Point Hydraulic System
T: To Tank
1A: 1A Port
2A: 2A Port
1B: 1B Port
2B: 2B Port

To operate the front loader, the hydraulic oil pressurized by the hydraulic pump flows from **P** port through the boom control valve (4) and the bucket control valve (1) to **P.B.** port or **T** port.

Since relief valve is not equipped in the front loader control valve, the main relief valve in the tractor operates.

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Battery

CAUTION

- **When disconnecting the battery cables, disconnect the negative cable from the battery first. When connecting, connect the positive cable to the battery first.**

1. Remove the under panel (1).
2. Disconnect the negative cable (3) from the battery.

(1) Under Panel
(2) Battery
(3) Negative Cable

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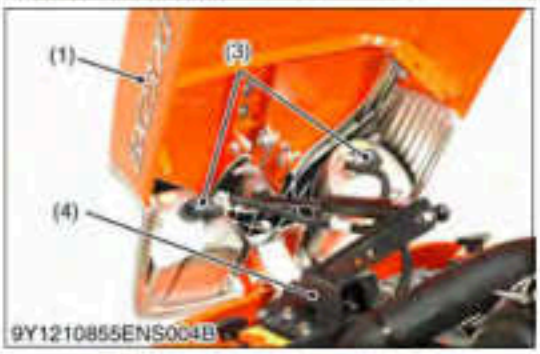


Bonnet and Under Cover

1. Open the bonnet (1), disconnect the connectors (3) for the head lights, then remove the bonnet with the bonnet bracket (4).
2. Remove the under cover (2).

(1) Bonnet
(2) Under Cover
(3) Connector
(4) Bonnet Bracket

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Front Wheel and Propeller Shaft Cover

1. Lift up the front of tractor and place the disassembling stand under the front axle frame.
2. Remove the front wheels.
3. Remove the propeller shaft cover mounting bolt and slide the propeller shaft cover (1).

(When reassembling)

Tightening torque	Front wheel mounting screw	149 to 179 N·m 15.2 to 18.3 kgf·m 110 to 132 lbf·ft

(1) Propeller Shaft Cover

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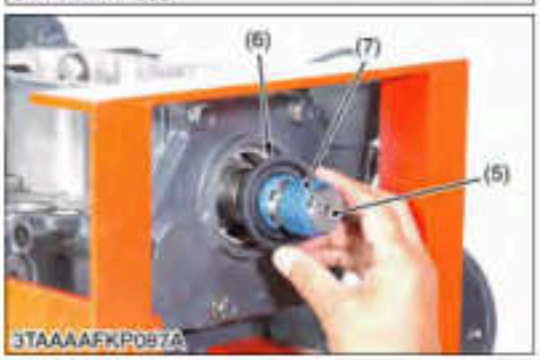
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Rear PTO Cover Assembly

1. Remove the rear PTO cover mounting bolts (1).
2. Remove the rear PTO cover (2).
3. Remove the rear PTO shaft (5) from the rear PTO cover (2).

(When reassembling)

- Pull the 11T PTO select shaft with the bearing approximately the bearing thickness.
- Apply liquid gasket (Three Bond 1208D or equivalent) to the joint surface of transaxle case to the rear PTO cover.
- Bind the vinyl tape to the rear PTO shaft not to damage the oil seal.

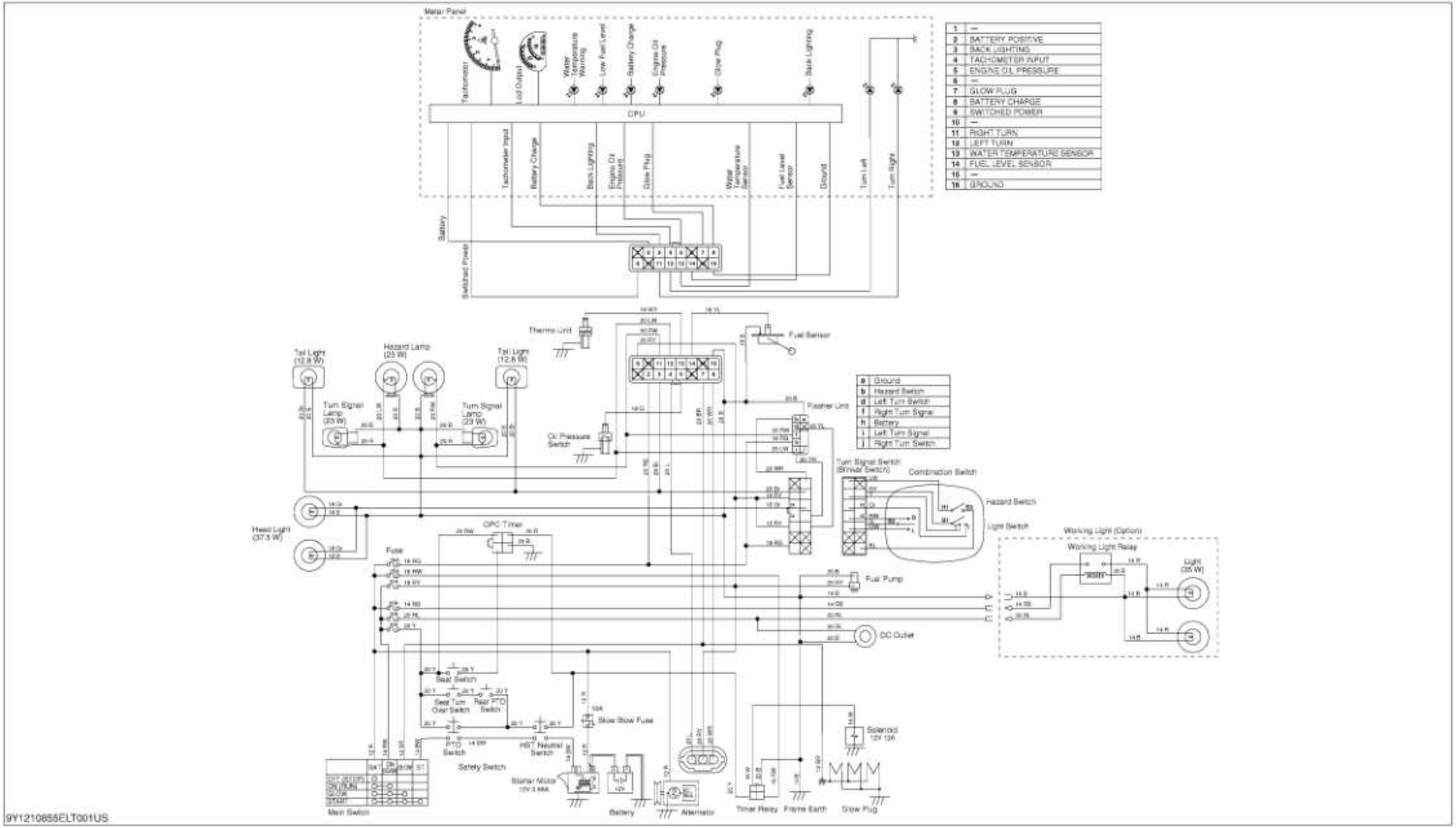
Tightening torque	Rear PTO cover mounting bolt (M8)	18 to 20 N·m 1.8 to 2.1 kgf·m 13 to 15 lbf·ft

(1) Bolt
(2) Rear PTO Cover
(3) Bearing
(4) 11T PTO Select Shaft
(5) Rear PTO Shaft
(6) Oil Seal
(7) Vinyl Tape

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1. WIRING DIAGRAM



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