TOYOTA SERVICE BULLETIN

Group: 06 No.: 02 Date: May, 18

Model: LandCruiser 70

Subject: Corrections to Repair Manuals RM730E

Please ensure these pages are distributed to all relevant staff for their information; and a copy made available for future reference, with the above repair manual.

Section	Title	Paragraph
SUSPENSION AND AXLE	STEERING KNUCKLE AND AXLE SHAFT	COMPONENTS （1998/08−）
		REMOVAL （1998/08-）
		INSTALLATION （1998/08-）

The revised pages listed above are attached.

(The corrected parts are indicated by arrows.)

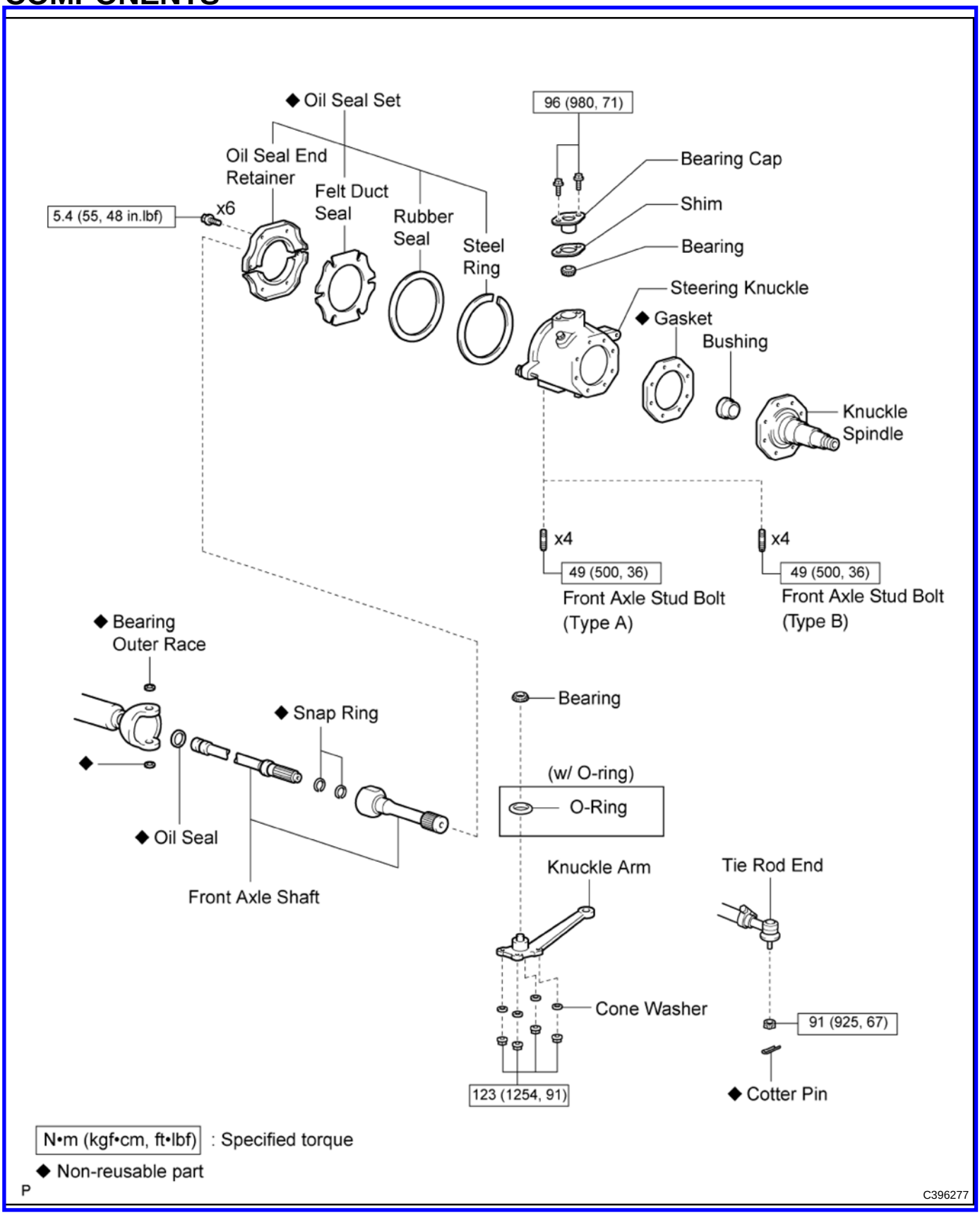
This bulletin does not cause the Flat Rate Manual to be changed

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STEERING KNUCKLE AND AXLE SHAFT

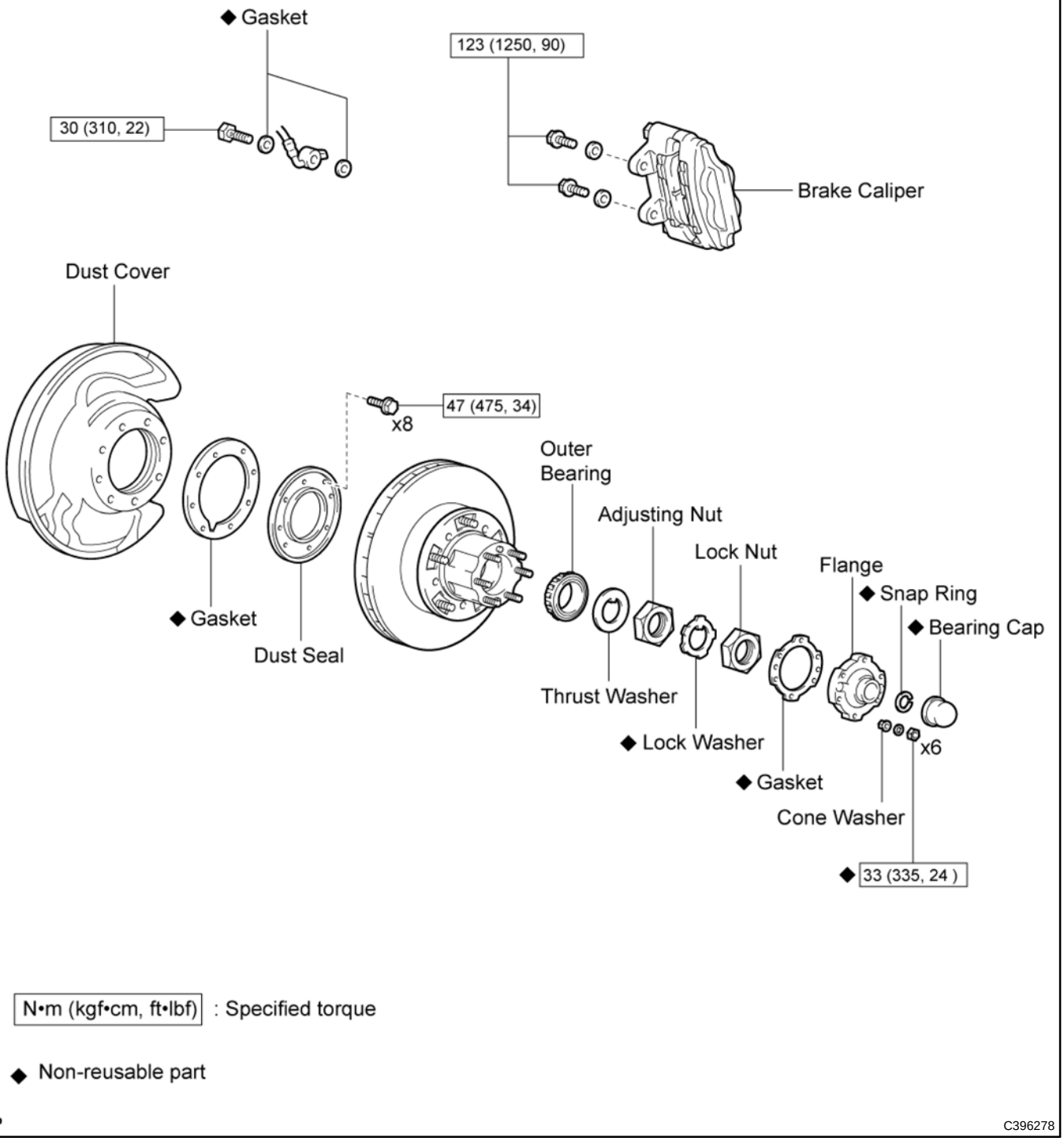
COMPONENTS

SA1AE-02



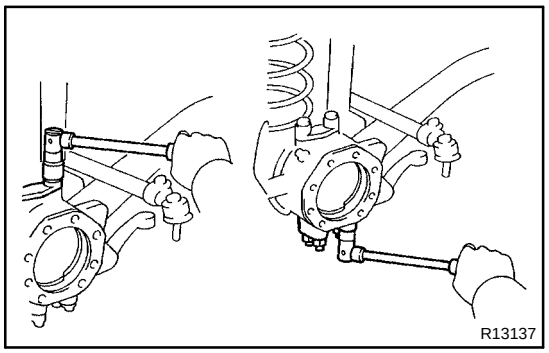
[All Corrected]

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[All Corrected]

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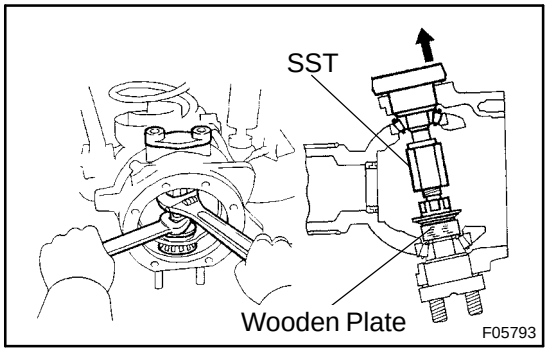


7. REMOVE KNUCKLE ARM AND BEARING CAP

(a) Remove the 2 bolts from the bearing cap.

(b) Remove the 4 nuts from the knuckle arm.

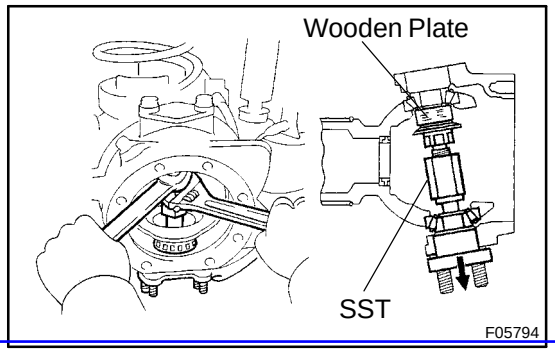
(c) Using a brass bar and hammer, tap on the 4 bolts heads and remove the 4 cone washers.



(d) Using SST and wooden plate, remove the bearing cap and shim from the steering knuckle.
SST 09606–60020

HINT:

- Use the SST without a collar.
- In some cases, to satisfy the standard value of preload, more than one shims are used.



(e) Using SST and wooden plate, remove the knuckle arm from the steering knuckle.
SST 09606–60020

HINT:

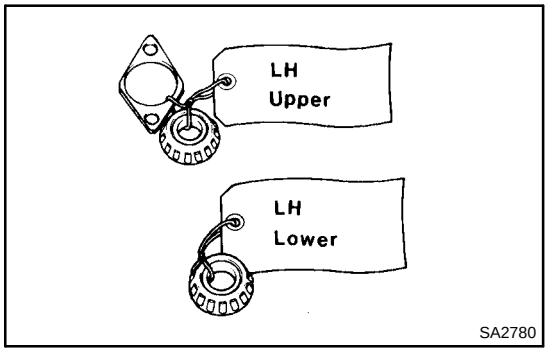
- Use the SST without a collar.
- In some cases, to satisfy the standard value of preload, more than one shims are used.

8. REMOVE OIL SEAL SET [Corrected]

Remove the steel ring, rubber seal and felt dust seal.

9. REMOVE STEERING KNUCKLE AND BEARINGS

(a) Remove the steering knuckle from the front axle housing.



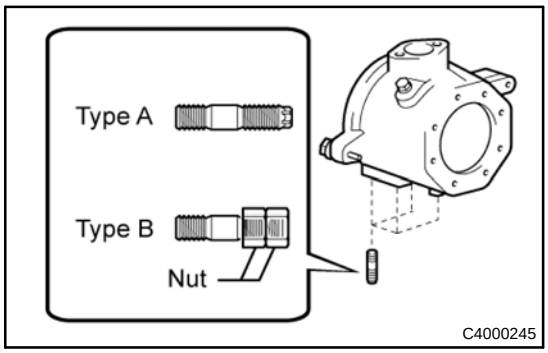
(b) Remove 2 bearings from the steering knuckle.

HINT:

Mark the removed adjusting shim and bearings so as to enable reassembling them to their proper positions.

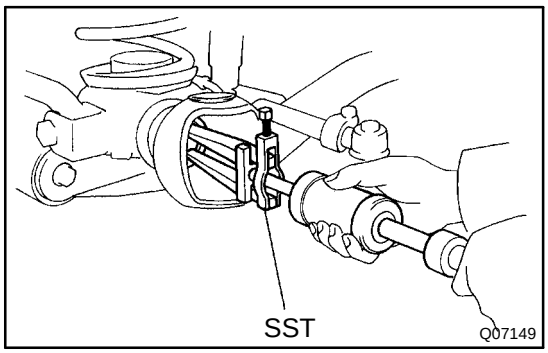
[Corrected]

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(c) Remove the front axle stud bolt (for Type A).
  (1) Using an E12 ”TORX” socket wrench, remove the 4 front axle stud bots from the steering knuckle.

(d) Remove the front axle stud bolt (for Type B).
  (1) Install the 2 nuts (M 12 x P 1.5 mm) to the front axle stud bolt.
  (2) Lock the lower side nut with the upper side nut.
  (3) Rotate the lower side nut and remove the 4 front axle stud bolts.



10. REMOVE OIL SEAL TO AXLE HOUSING

[Corrected]

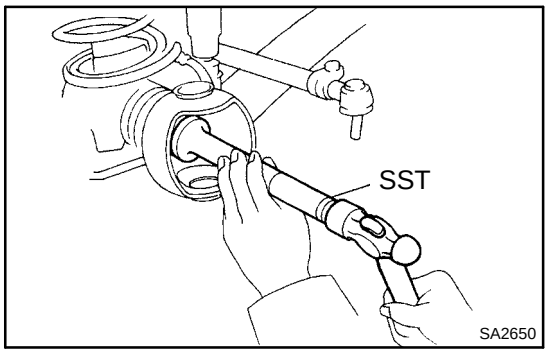
Using SST, remove the oil seal.

SST 09308–00010

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SA1AJ–02

INSTALLATION



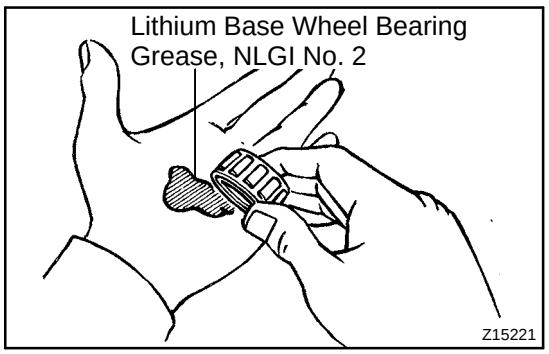
1. INSTALL OIL SEAL TO AXLE HOUSING

Using SST and a hammer, install a new oil seal into the axle housing.

SST 09618–60010

2. TEMPORALLY INSTALL NEW OIL SEAL SET TO AXLE HOUSING

Place the felt dust seal, rubber seal and steel ring to the axle housing.

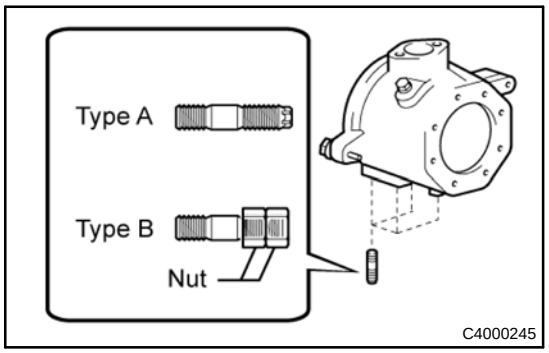


3. PACK BEARINGS WITH LITHIUM BASE WHEEL BEARING GREASE, NLGI NO. 2

(a) Place lithium base wheel bearing grease, NLGI No. 2 on your hand.

(b) Pack grease into the bearing until the grease oozes out from the outer side.

(c) Do the same around the bearing circumference.



4. INSTALL STEERING KNUCKLE AND BEARINGS

(a) Install the front axle stud bolt (for Type A).

(1) Using an E12 ”TORX” socket wrench, install the 4 front axle stud bots to the steering knuckle.

Torque: 49 N·m (500 kgf·cm, 36 ft·lbf)

(b) Install the front axle stud bolt (for Type B)

(1) Install the 2 nuts (M 12 x P 1.5 mm) to the front axle stud bolt.

(2) Lock the upper side nut with the lower side nut.

(3) Rotate the upper side nut and install the 4 front axle stud bolts.

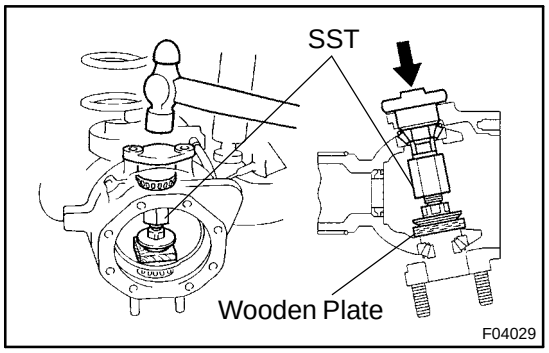
Torque: 49 N·m (500 kgf·cm, 36 ft·lbf)

(4) Remove the 2 nuts from the front axle stud bolt.

(c) Place the 2 steering knuckle arm bearings in positions on the steering knuckle and front axle housing.

(d) Install the steering knuckle to the front axle housing.

[Corrected]



5. INSTALL KNUCKLE ARM AND BEARING CAP

(a) Using SST and wooden plate, support the upper bearing inner race.

SST 09606–60020

HINT:

Use the SST with a collar.

(b) Install the bearing cap over the used shim.

(c) Using a hammer, install the bearing cap into the bearing inner race.

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