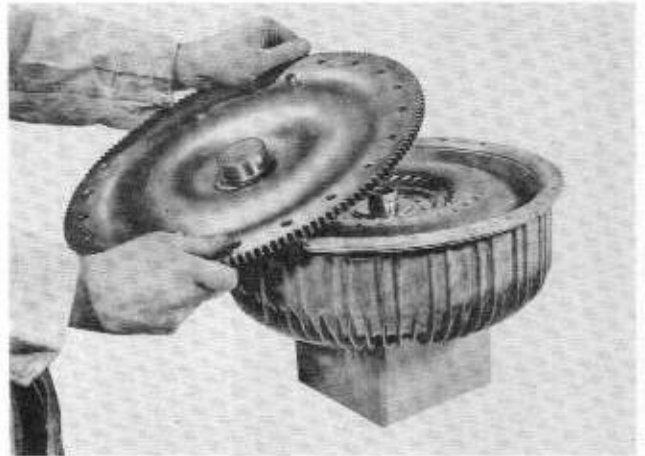
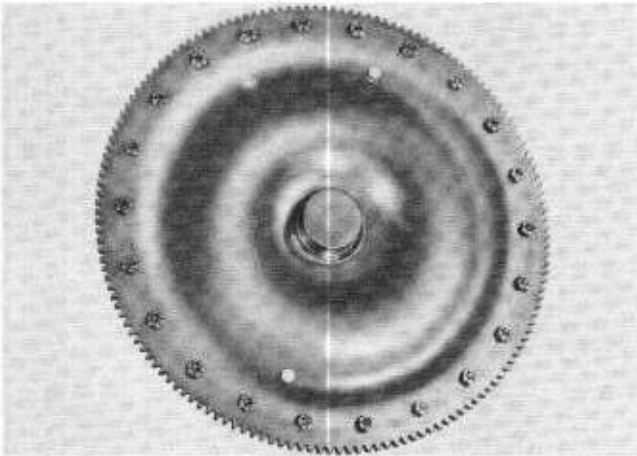


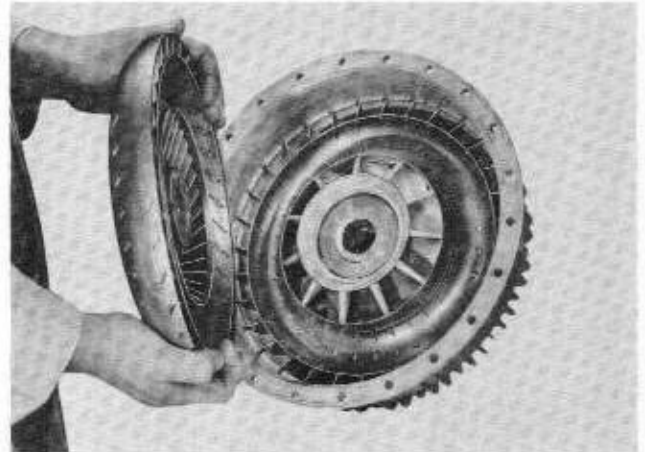
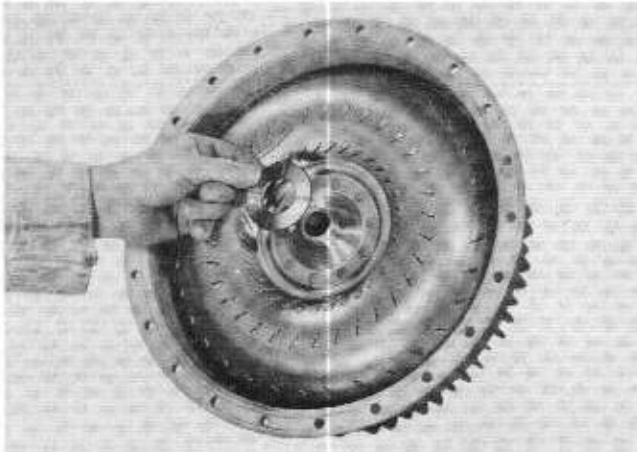
A. Disassembly of Converter



1. With the converter in a wooden holding block, remove the cover nuts and bolts.

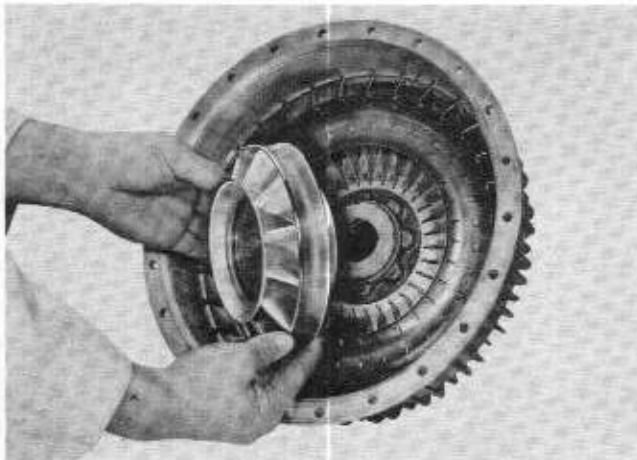
2. Remove the converter cover and "o" ring gasket.

NOTE Note the location of pump and cover aligning marks.



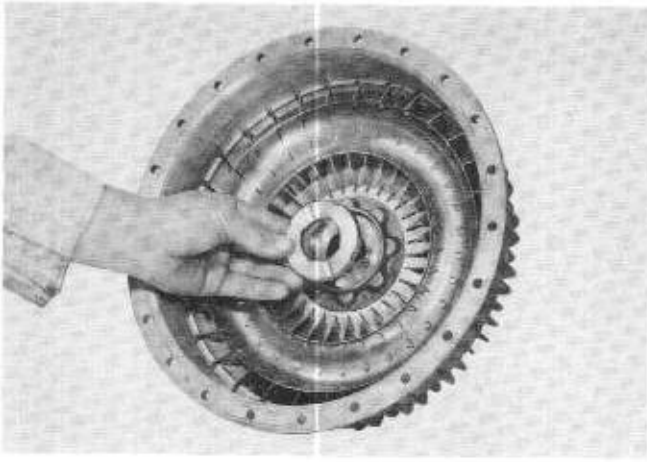
3. Remove the bronze thrust washer from the turbine.

4. Lift the turbine out of the impeller housing.

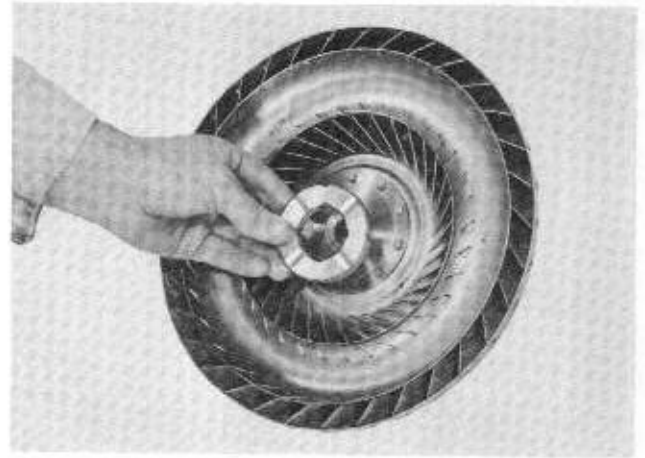


5. Lift the stator out of the impeller housing.

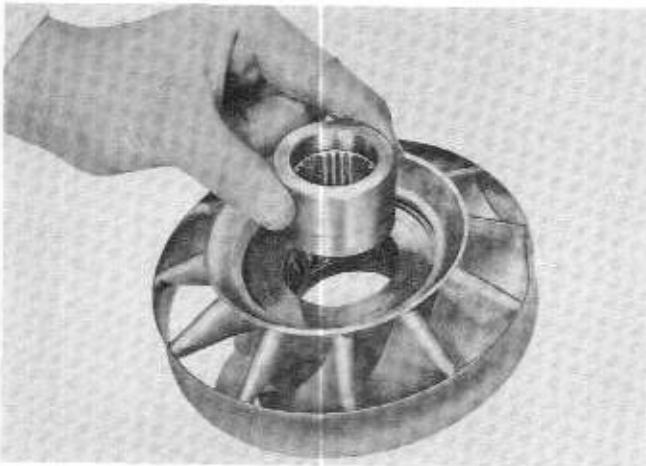
NOTE Note the position of the stator.



6. Remove the thrust washer from the impeller hub.



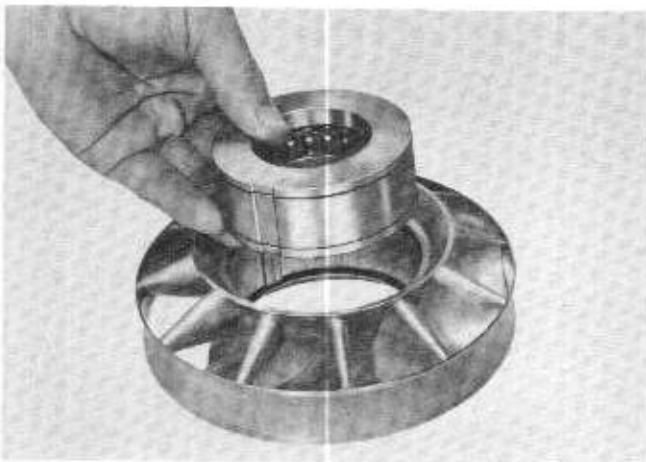
7. Remove the thrust washer from the turbine hub.



8. Remove the one-way clutch inner race from the stator.

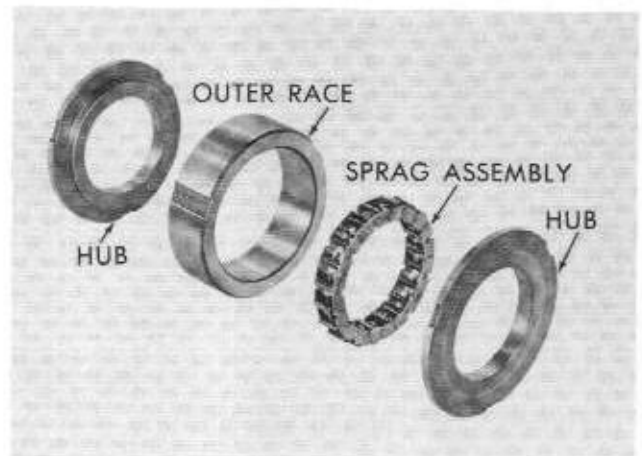


9. Remove the outer hub snap ring from the stator.

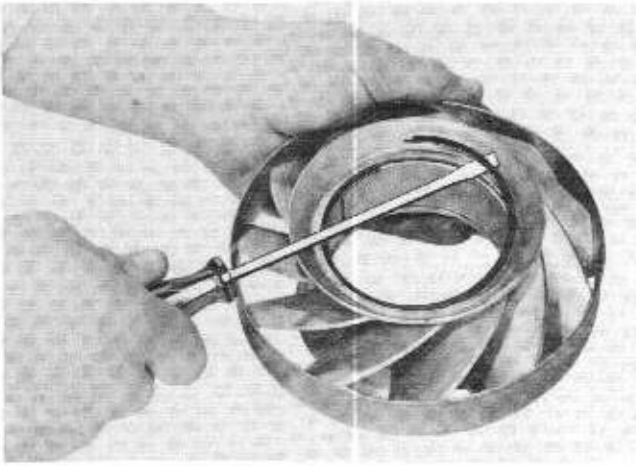


10. Remove the outer hub, sprag assembly, outer race and inner hub, as a unit, from the stator.

CAUTION Do not burr the snap ring groove.



11. Separate the hubs and sprag assembly from the outer race.

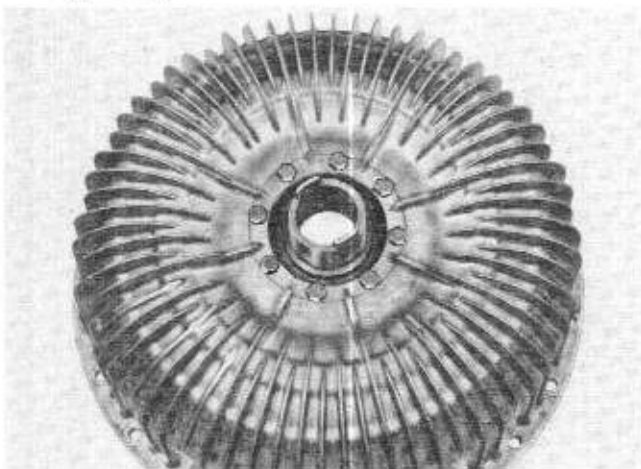


12. Remove the inner hub snap ring.

B. Inspection of Converter

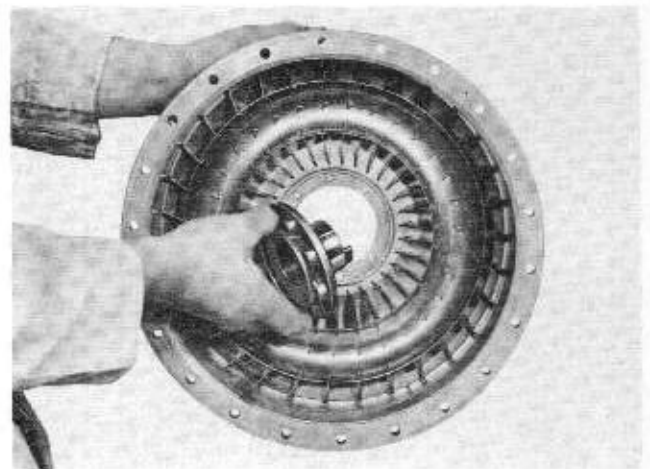
Wash all parts in a clean solvent and blow them dry.

1. Inspect the turbine and impeller blades for looseness.
2. Inspect thrust surfaces of the turbine and impeller for scores.
3. Inspect all splines for burrs and wear.
4. Inspect the seal surface and front pump driving lugs for wear.
5. Inspect the stator thrust surfaces for scores.
6. Inspect the stator inner and outer races for scores.
7. Inspect the sprag assembly for wear, broken sprags, and a broken or distorted spring.

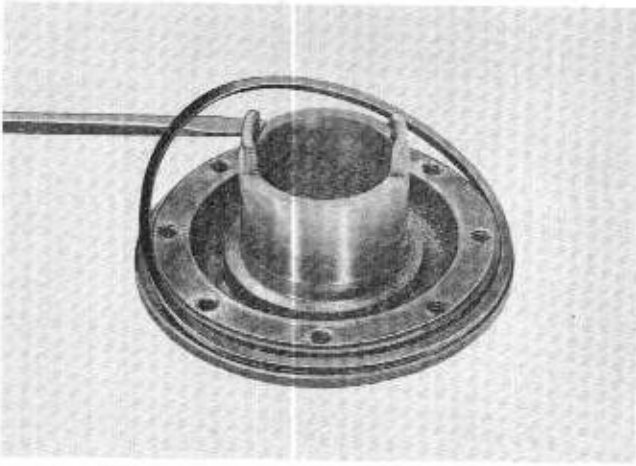


8. If inspection shows that the impeller hub is worn or scored --

(a) Remove the hub bolts.



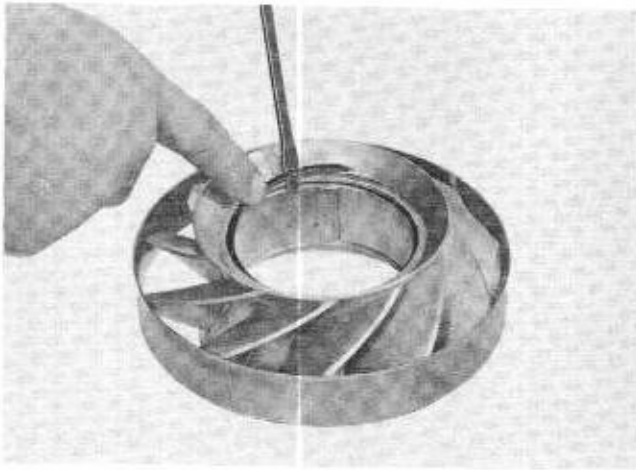
(b) Remove the hub from the impeller.



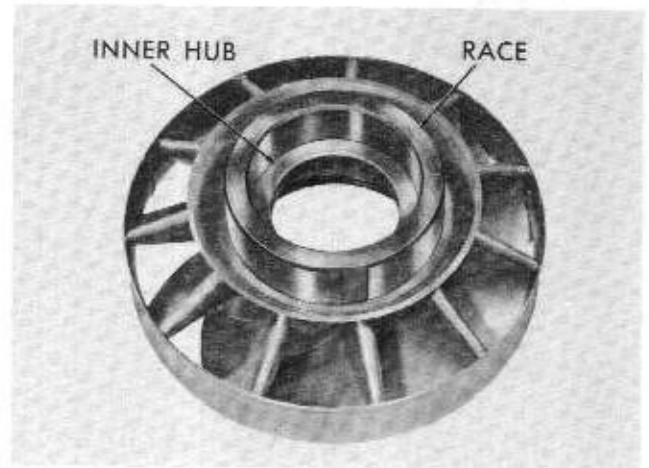
(c) Remove the seal from the hub.

(d) Install a new seal on the hub, and install the hub in the impeller -- securing it with its bolts and washers. Torque the bolts 8 to 10 foot-pounds.

C. Assembly of Converter

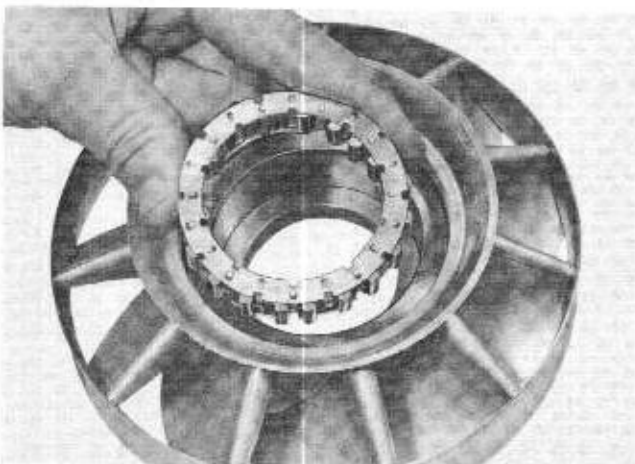


1. Install the stator inner hub snap ring in the stator. Turn the stator over.

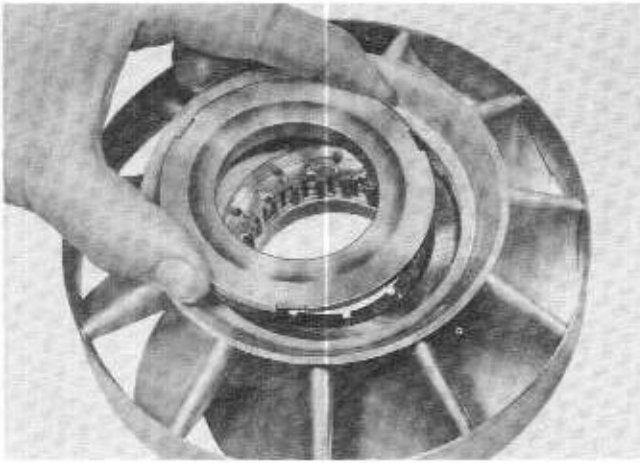


2. Install the inner hub on the outer race and install the race in the stator with the inner hub down.

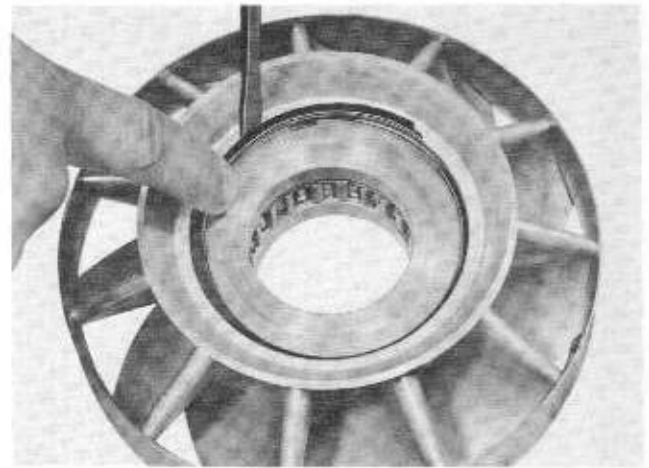
NOTE Line the grooves in the outer race with the keys in the stator.



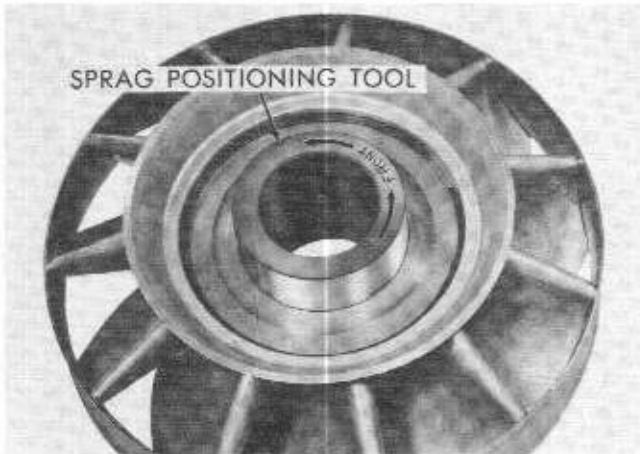
3. Install the sprag assembly in the outer race.



4. Install the outer hub.

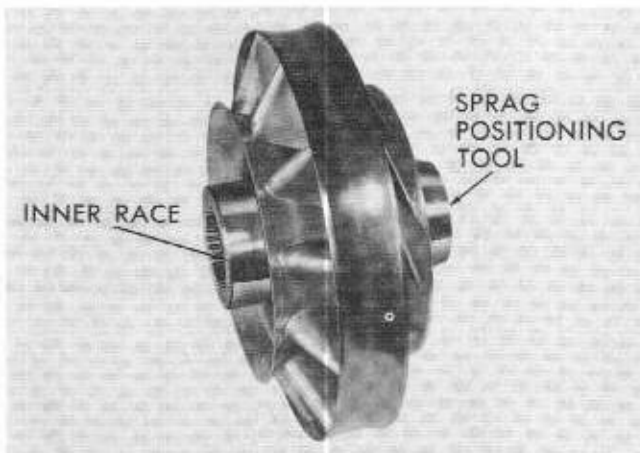


5. Install the outer hub snap ring.

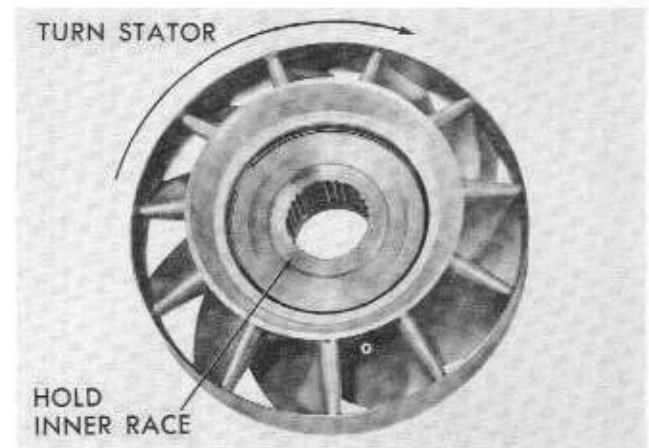


6. Install the special sprag positioning tool, tapered side first, into the sprag assembly, while rotating tool counterclockwise to position sprags.

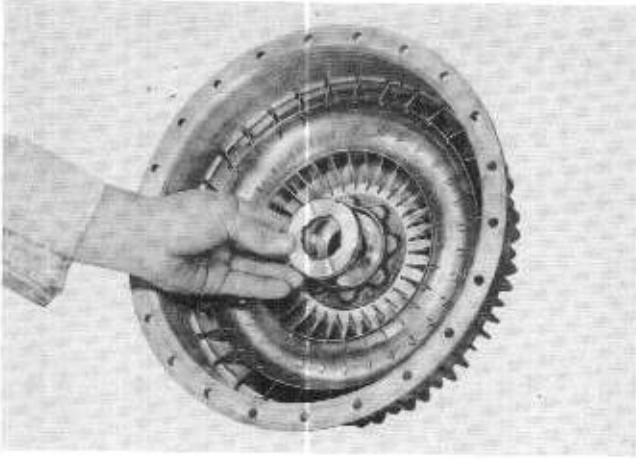
NOTE If the sprags bind on the tool and prevent counterclockwise rotation of the tool, remove the tool, outer hub snap ring, and outer hub, and reposition the sprags so they are pointing in the correct direction. Then install the outer hub, its snap ring, and the tool, and rotate the tool counterclockwise.



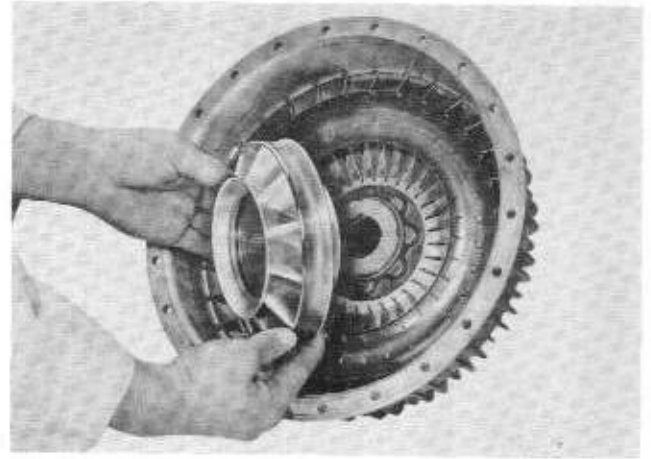
7. Install the inner race in the stator with its spline section up by pushing it slowly into the outer hub and against the sprag positioning tool. Continue pushing the race against the tool until the race is located properly, and remove the tool.



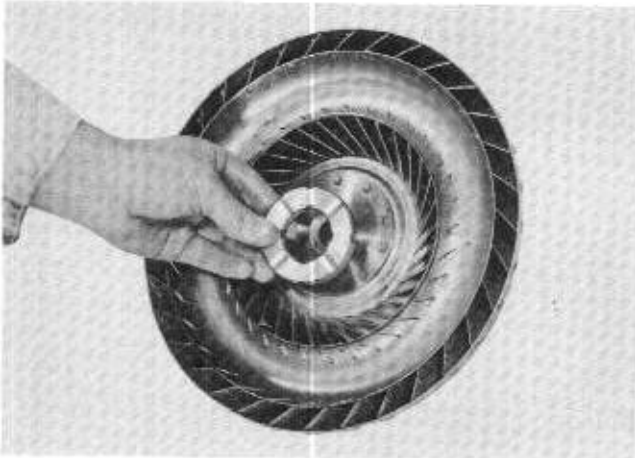
8. Check correct sprag positioning by holding the inner race and turning the stator clockwise. If the stator will not turn, the sprags are improperly positioned, and the sprag assembly must be removed and installed properly.



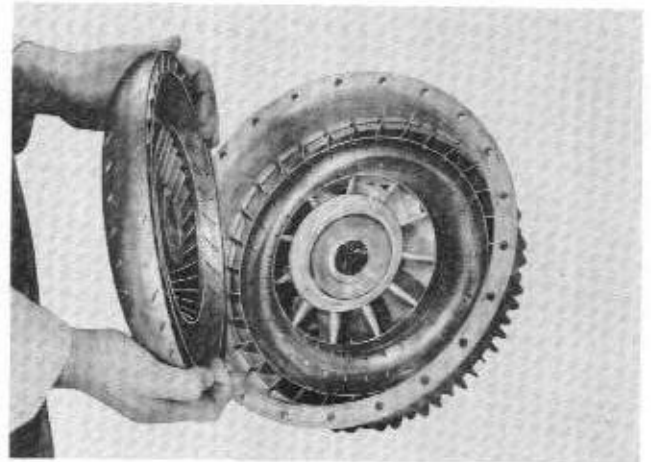
9. Install the thrust washer into the hub of the converter impeller.



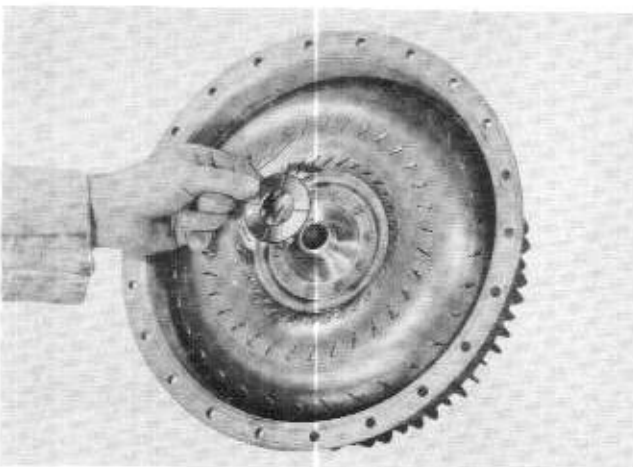
10. Install the stator in the impeller with "front" up.



11. Install the thrust washer into the hub of the turbine. Hold it in place with fluid.



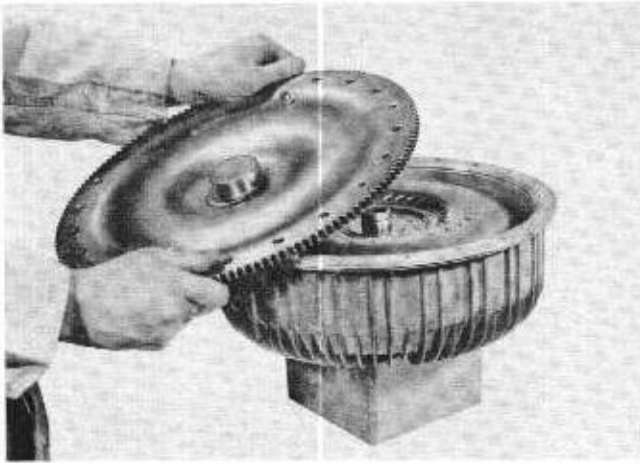
12. Install the turbine.



13. Install the bronze thrust washer on the turbine hub.



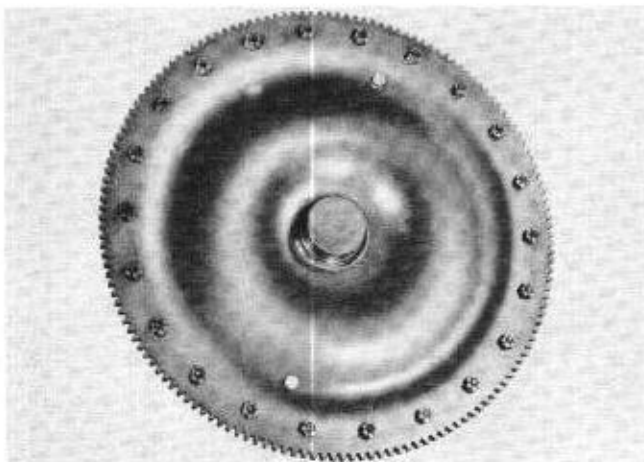
14. Install a new "o" ring gasket in the converter cover.



15. Install the converter cover on the impeller.

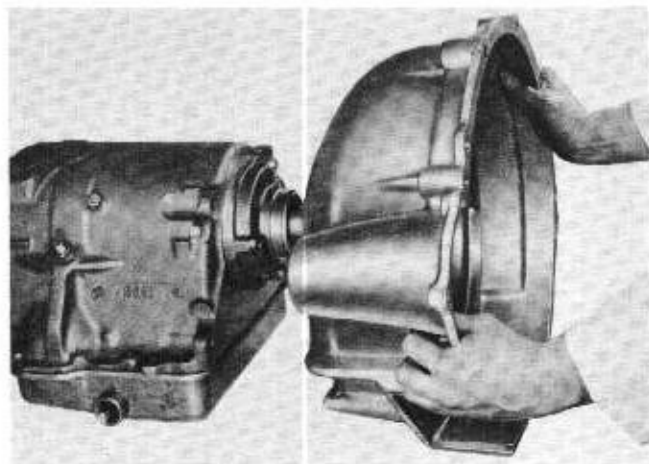
NOTE When installing the converter cover, align the identifying marks as shown in the following chart. Identification is stamped between the cooling vanes on outer diameter of the pump housing. On the converter cover the identification is stamped directly below a converter drain plug.

Converter Cover	Converter Pump Housing	Position
O	W	In line with each other
O	O	In line with each other
W	W	180° opposite each other
W	O	180° opposite each other

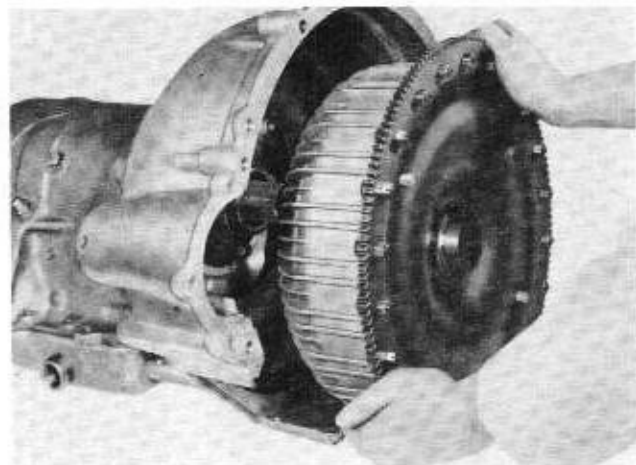


16. Install the cover-to-impeller bolts and torque them 25 to 28 foot-pounds.

D. Installation of Converter on Transmission



1. Position the converter housing on the transmission and install its attaching bolts. Torque the bolts 40 to 45 foot-pounds.



2. Install the converter in the converter housing, pushing it straight in on the shaft.

CAUTION To prevent damage to the front seal, do not rock the assembly from side to side. Also temporarily secure the converter in the housing with a wedge or bracket to keep it from sliding out.