



AUTOMATIC TRANSMISSION SERVICE GROUP

WWW.ATSG.BIZ

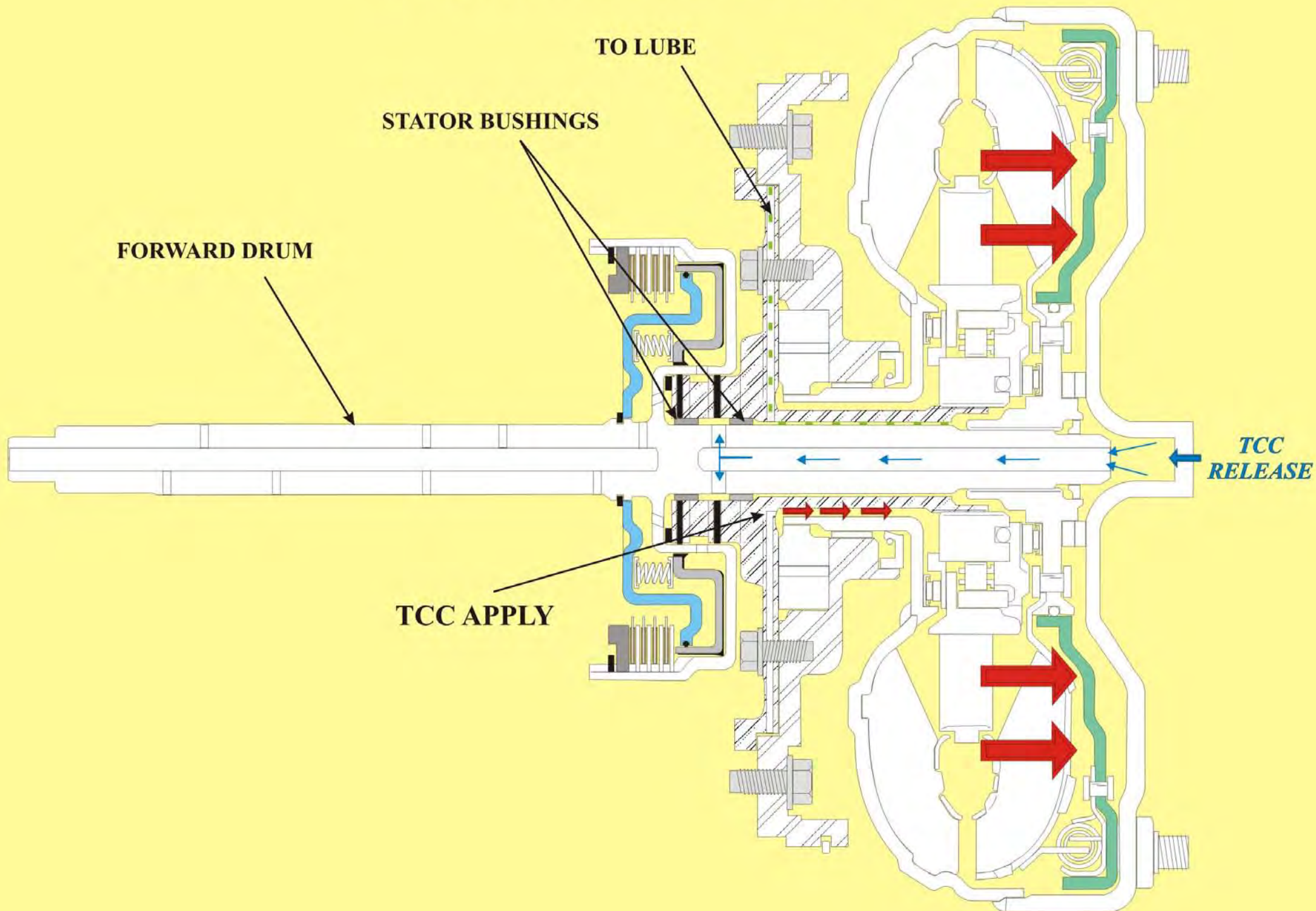
4F27E-FN4A-EL

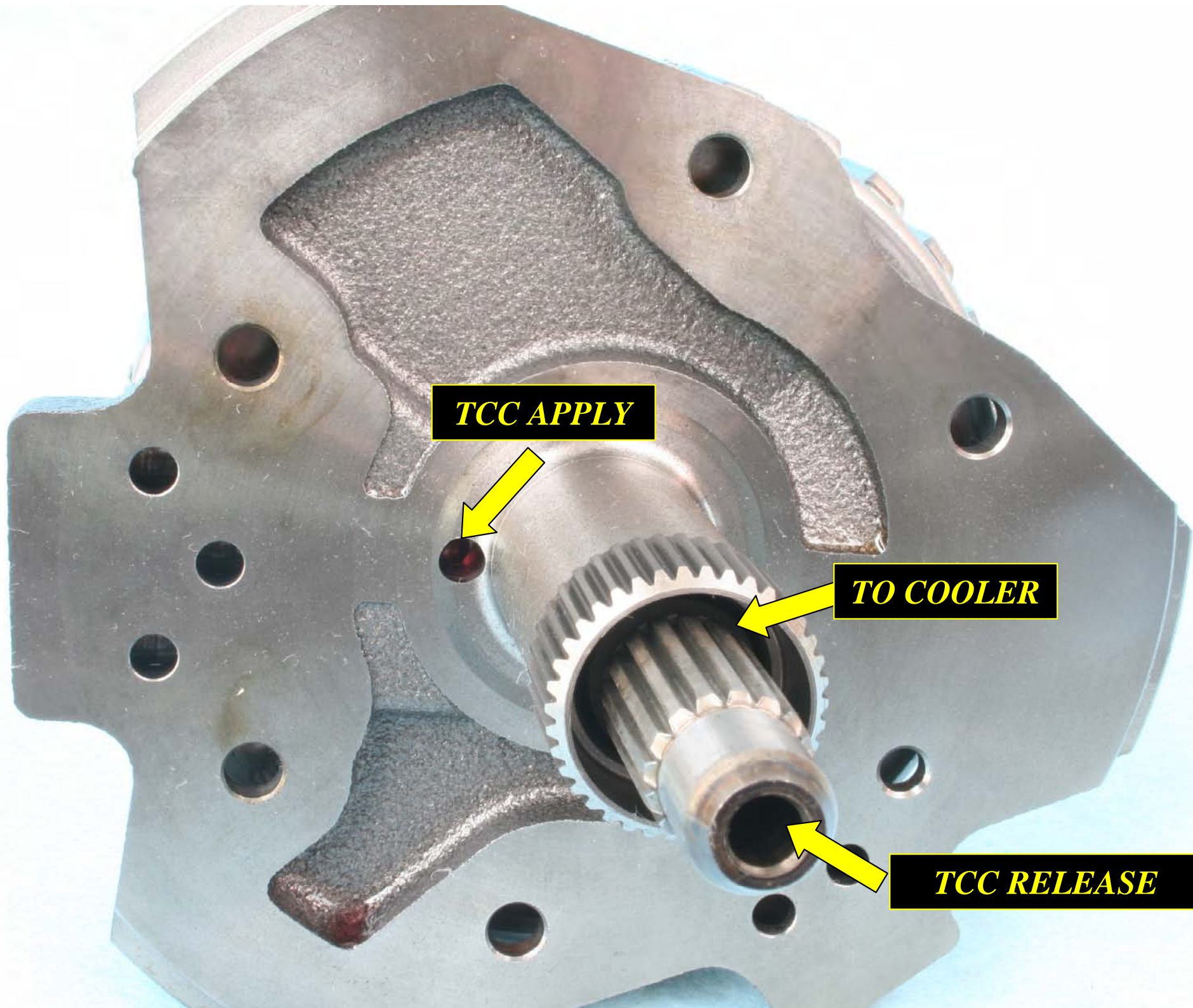
FN5

PO741 TCC SLIP

CT-27 CT-30

TORQUE CONVERTER APPLIED





TCC APPLY

TO COOLER

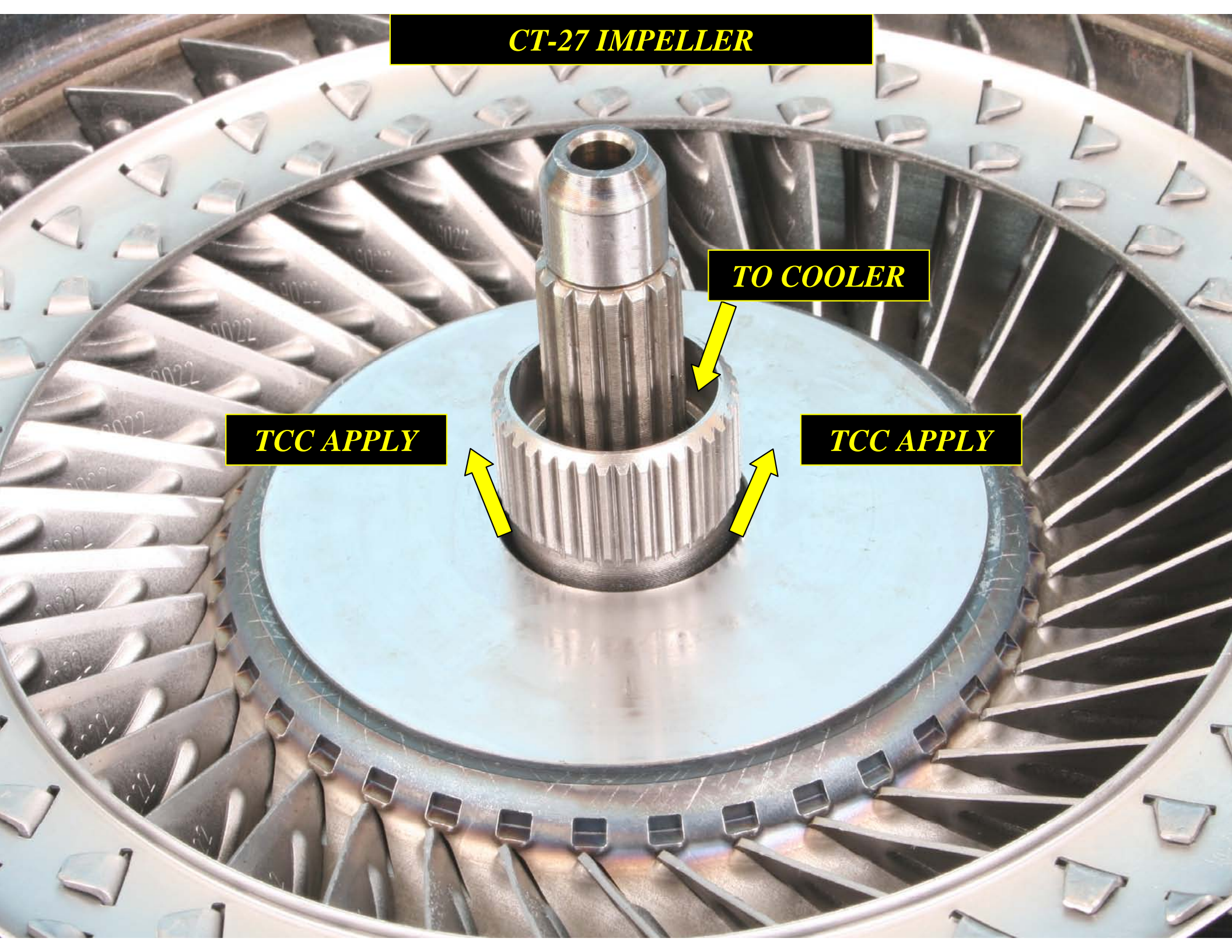
TCC RELEASE

CT-27 IMPELLER

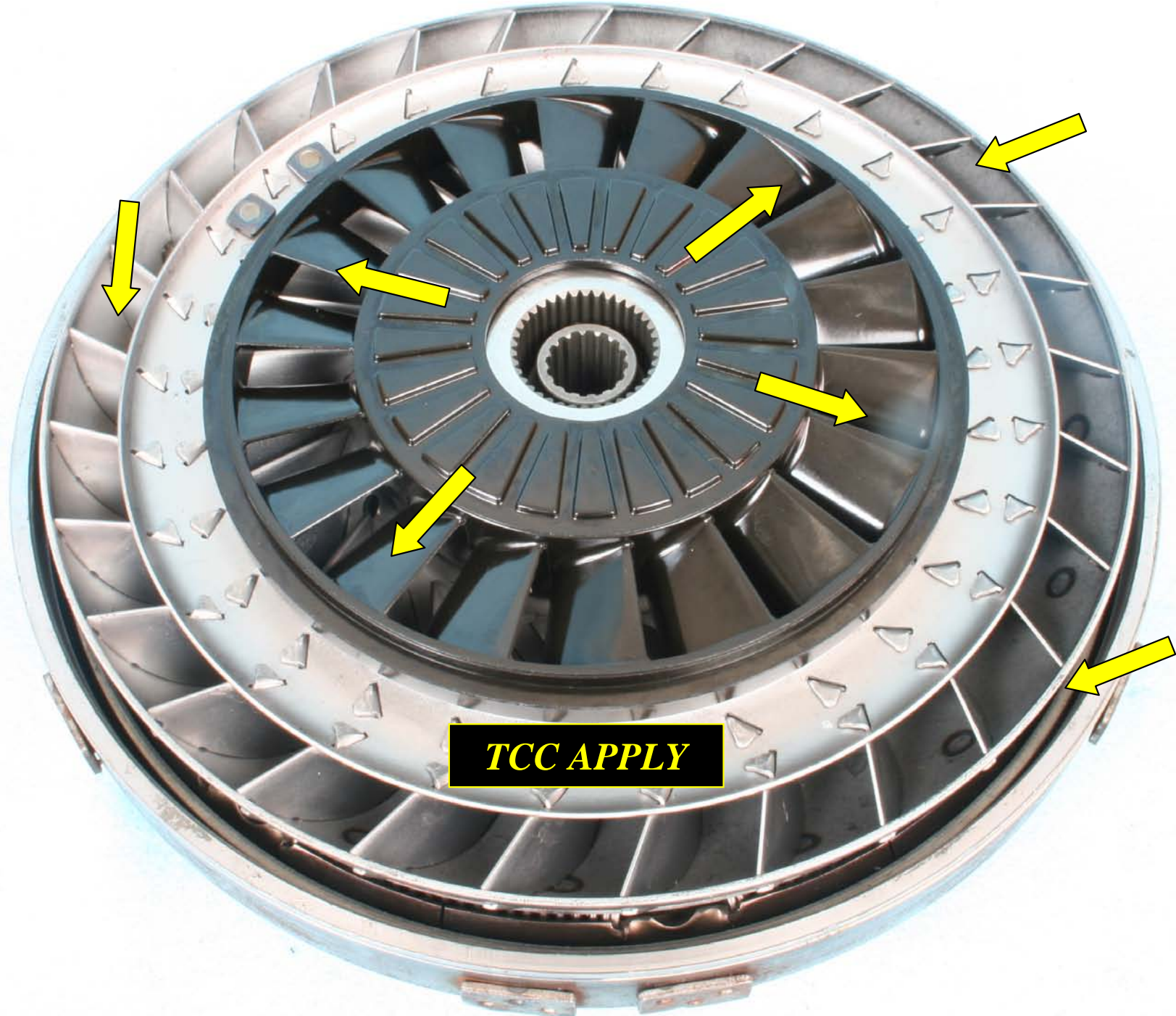
TO COOLER

TCC APPLY

TCC APPLY

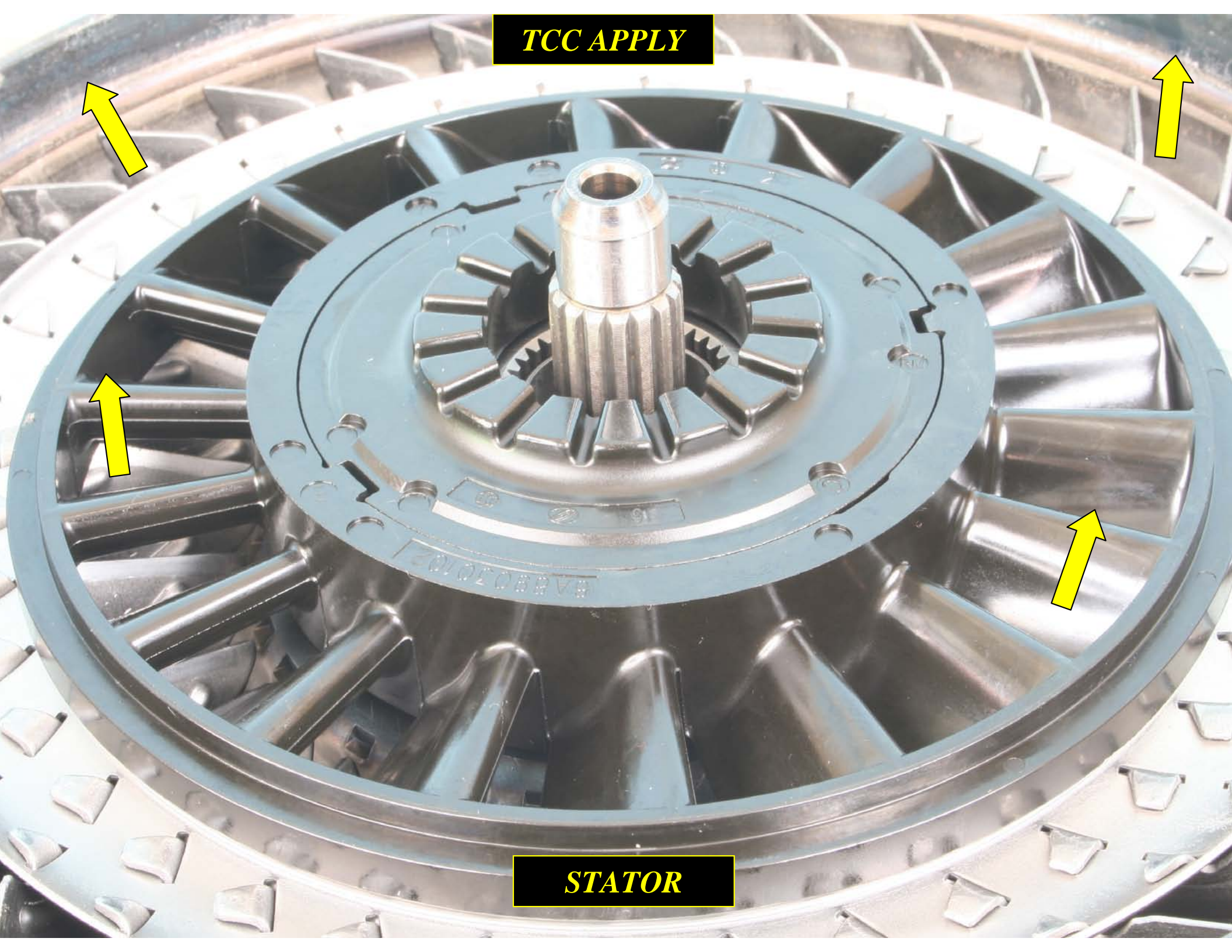


STATOR IMPELLER SIDE



TCC APPLY

TCC APPLY

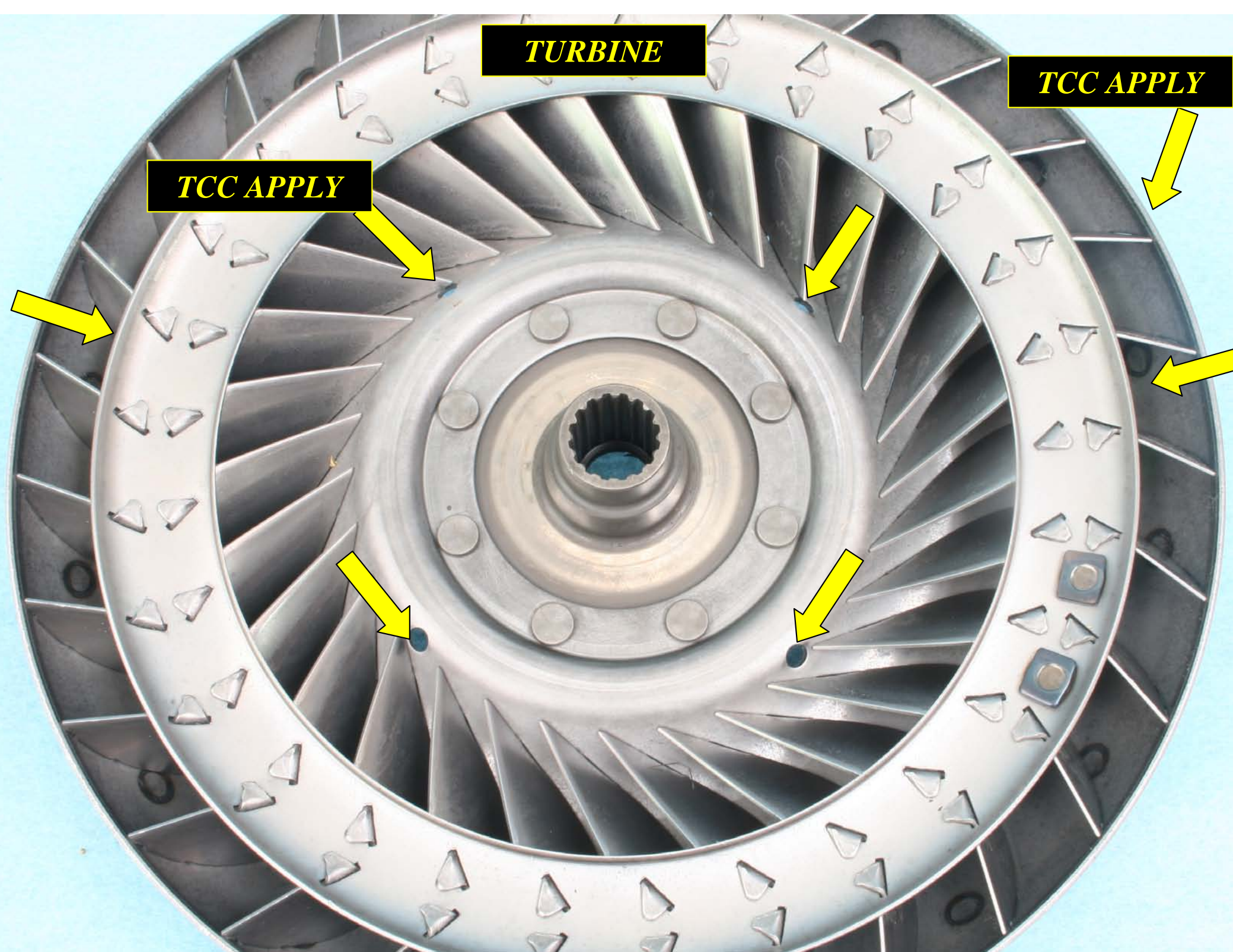


STATOR

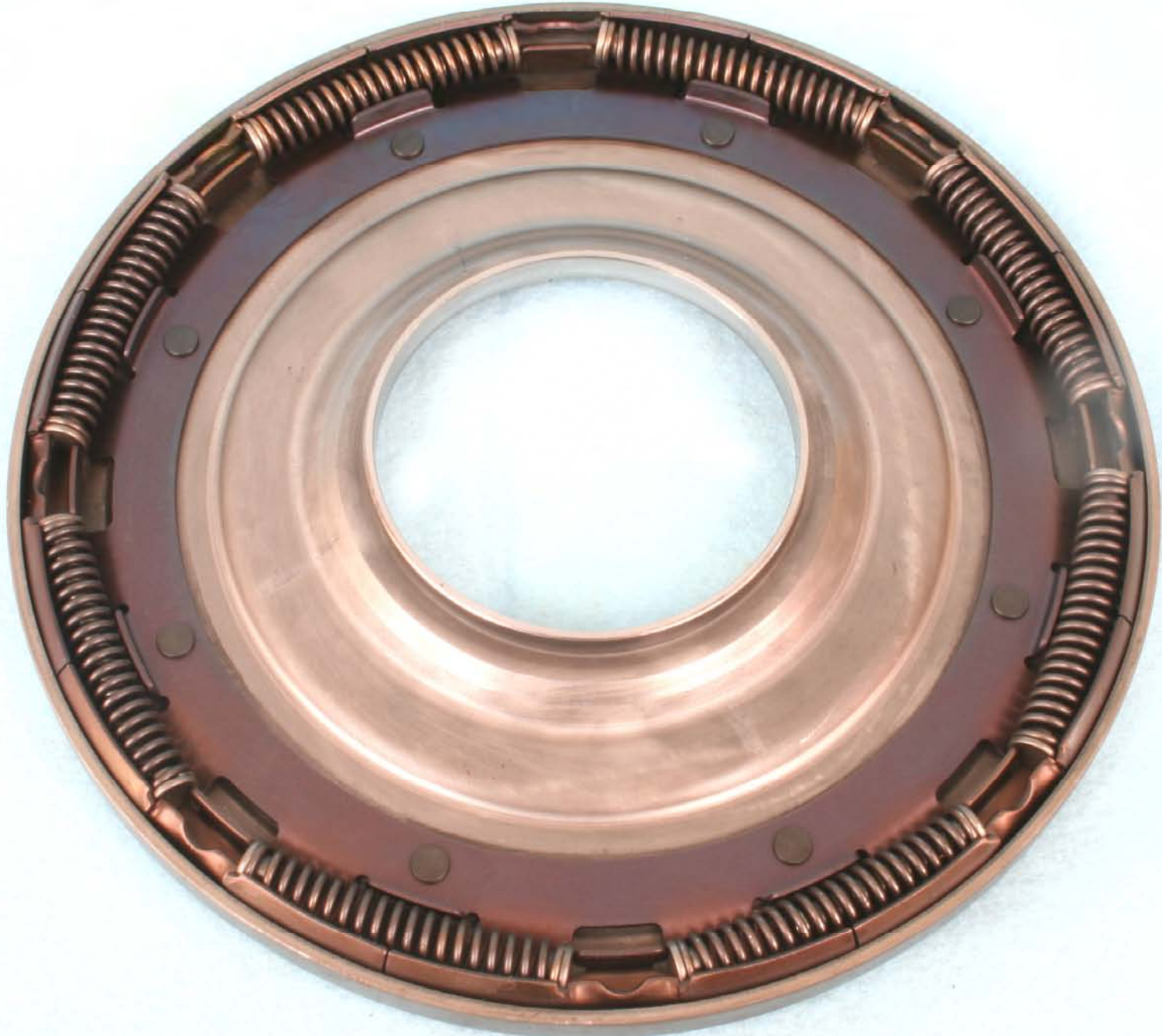
TURBINE

TCC APPLY

TCC APPLY

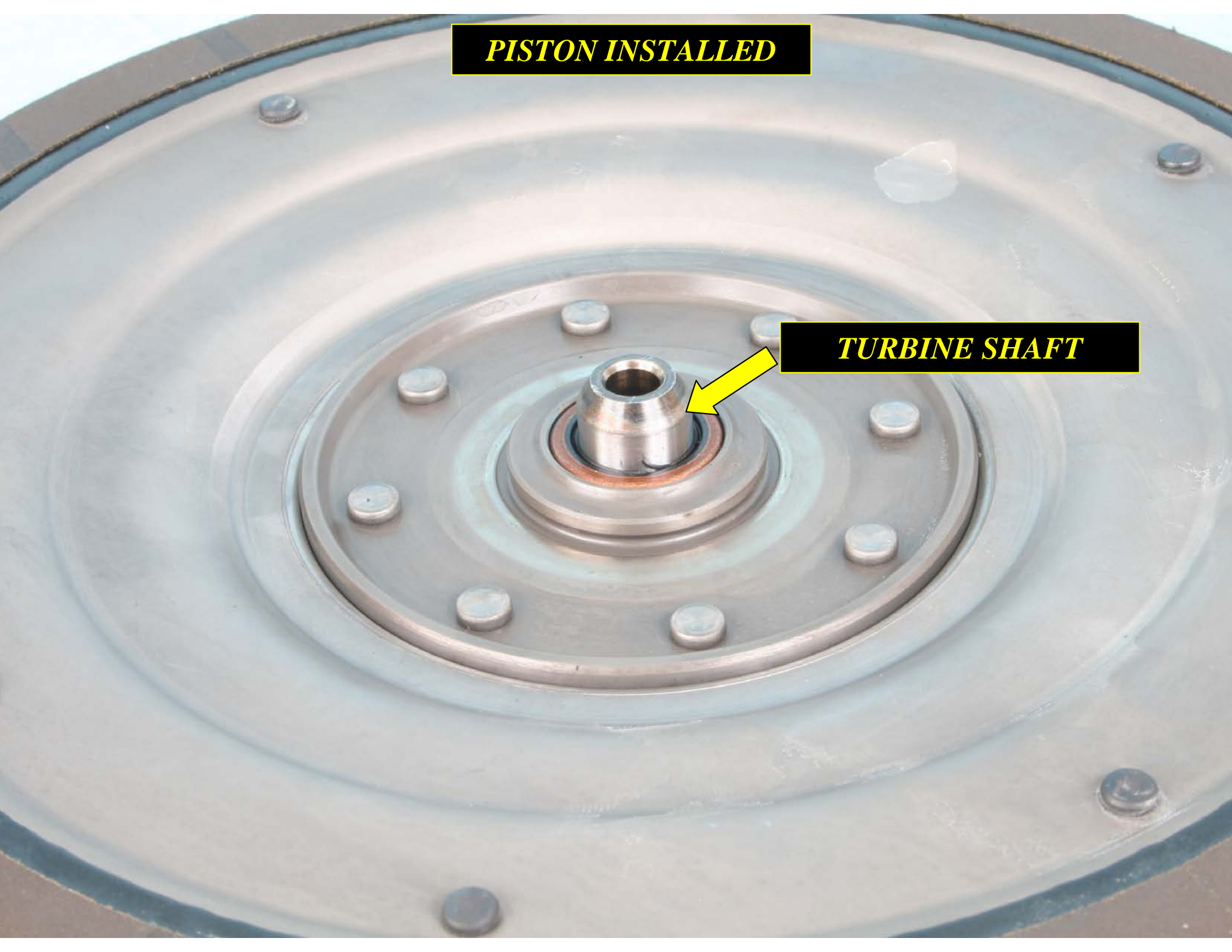


APPLY SIDE OF PISTON

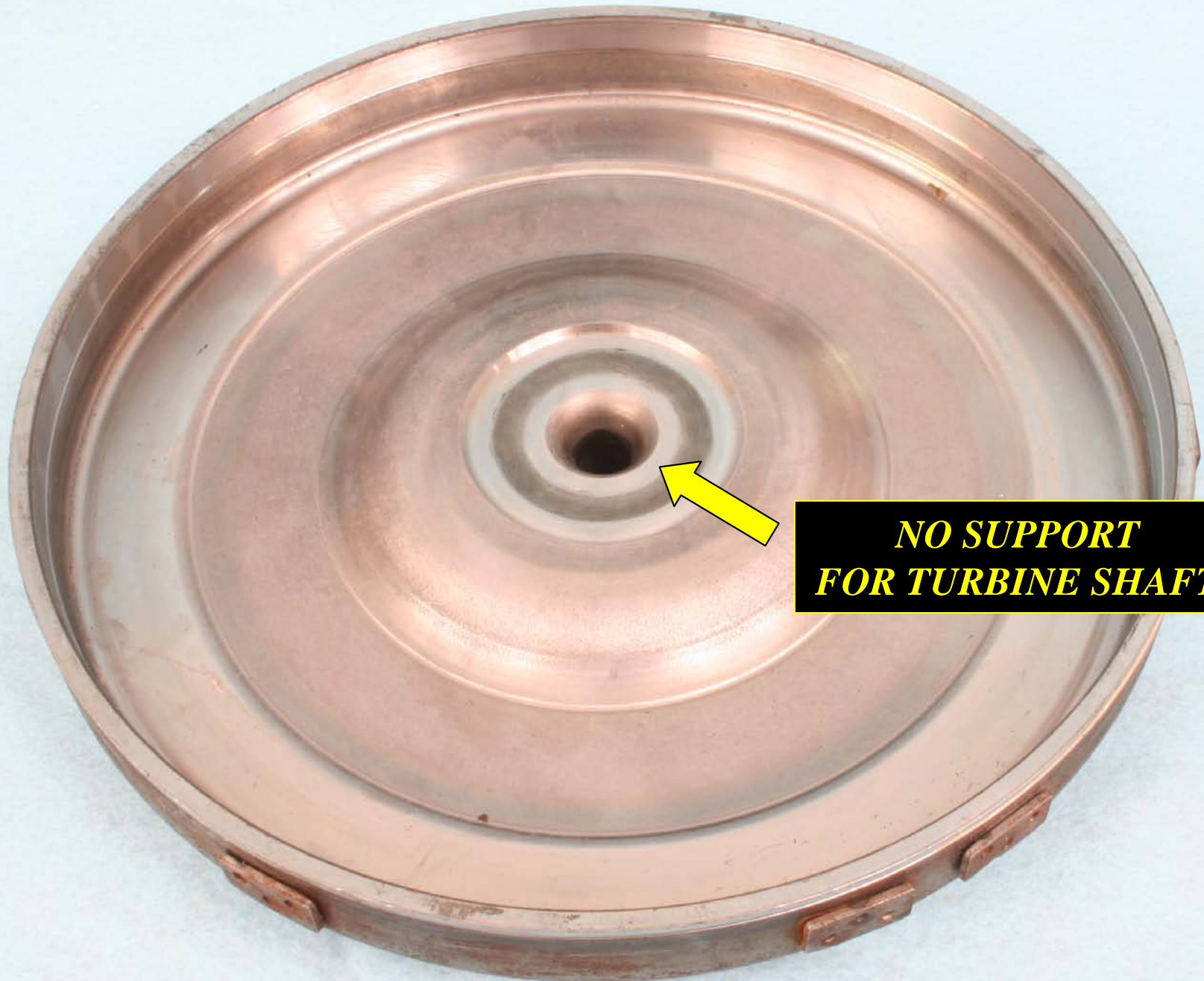


PISTON INSTALLED

TURBINE SHAFT



COVER



***NO SUPPORT
FOR TURBINE SHAFT***

***NO TURBINE SHAFT
SUPPORT ON FRONT OF
STATOR SHAFT***



TORQUE CONVERTER APPLIED

FORWARD DRUM

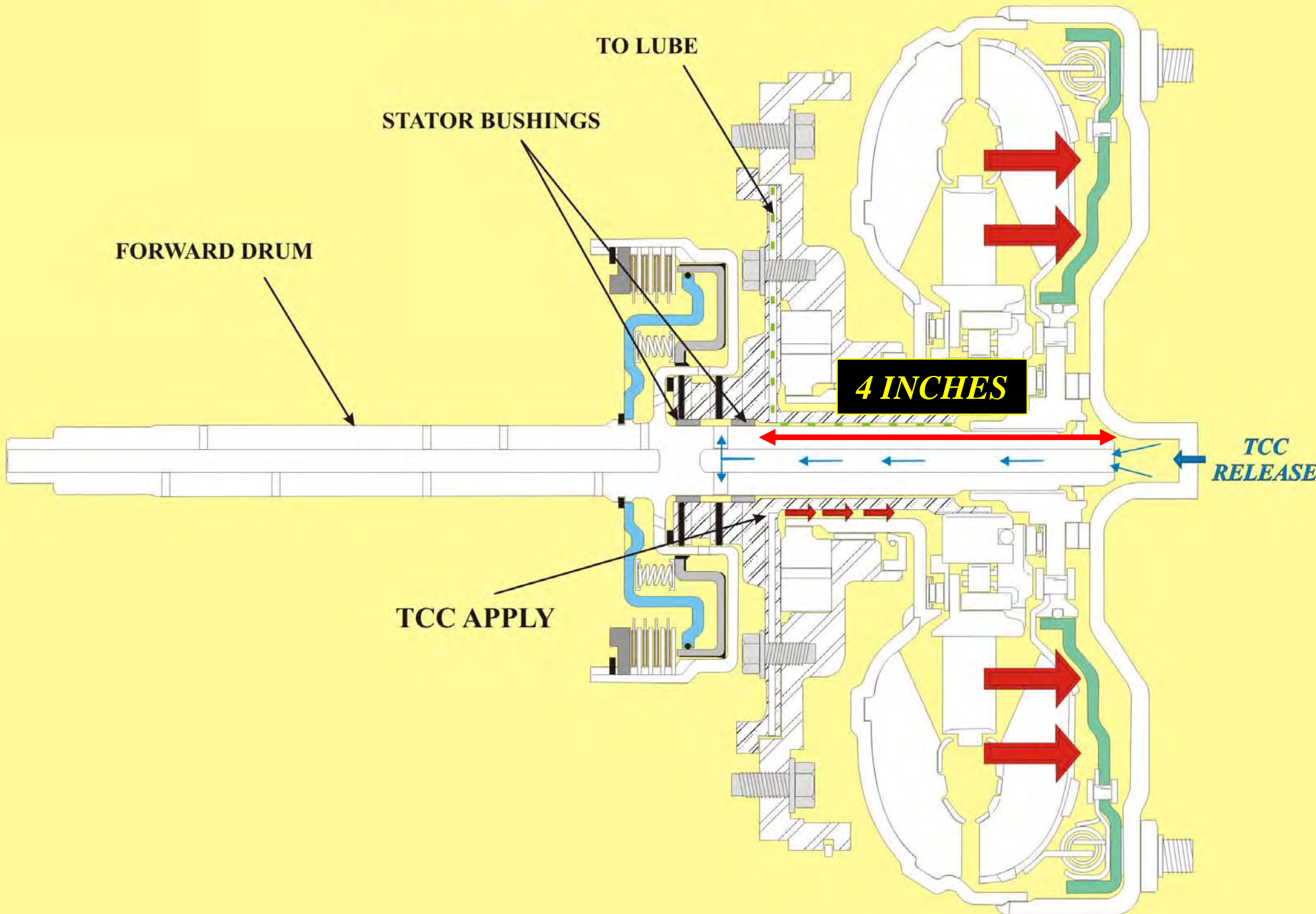
STATOR BUSHINGS

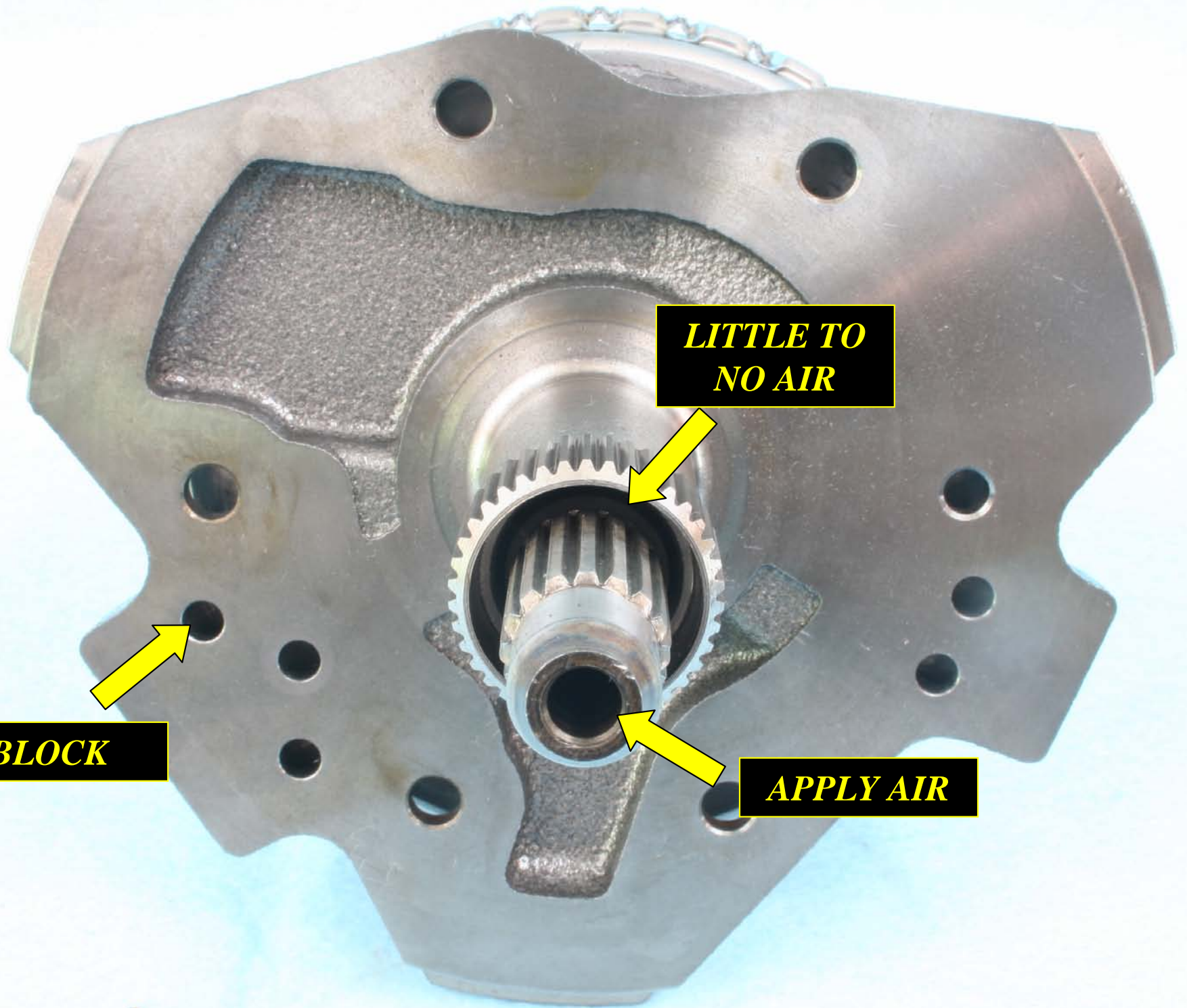
TO LUBE

4 INCHES

TCC APPLY

TCC
RELEASE



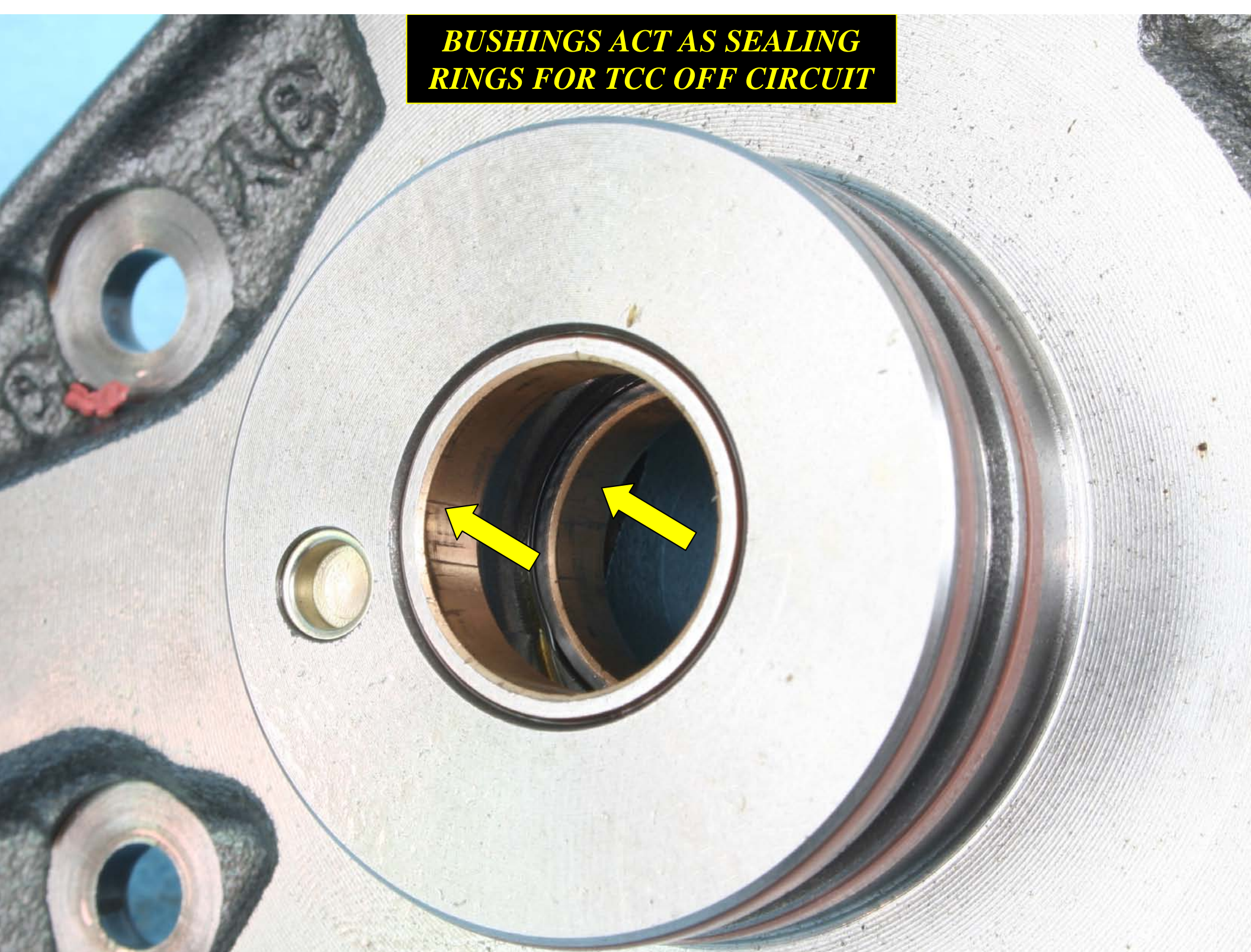


***LITTLE TO
NO AIR***

BLOCK

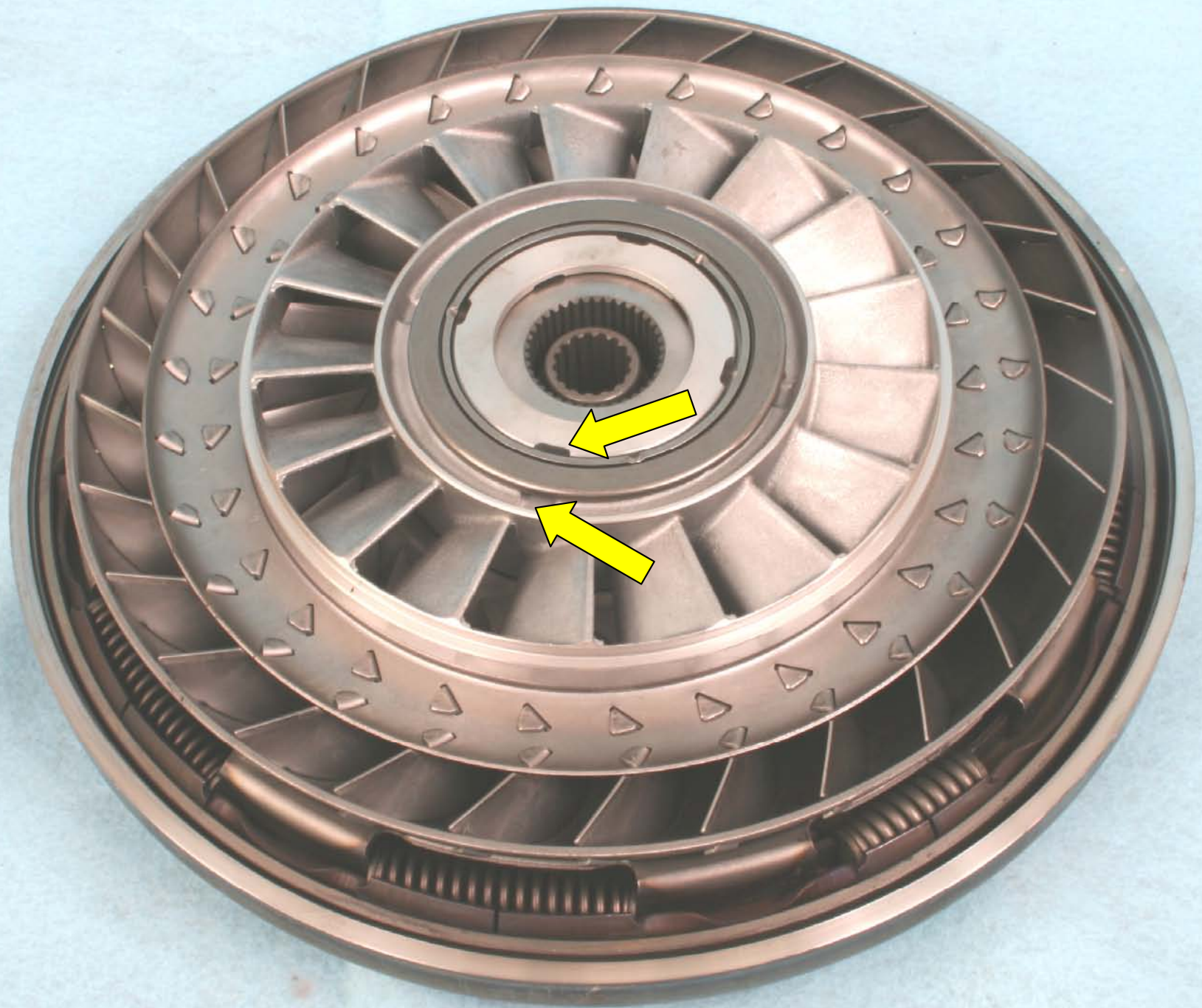
APPLY AIR

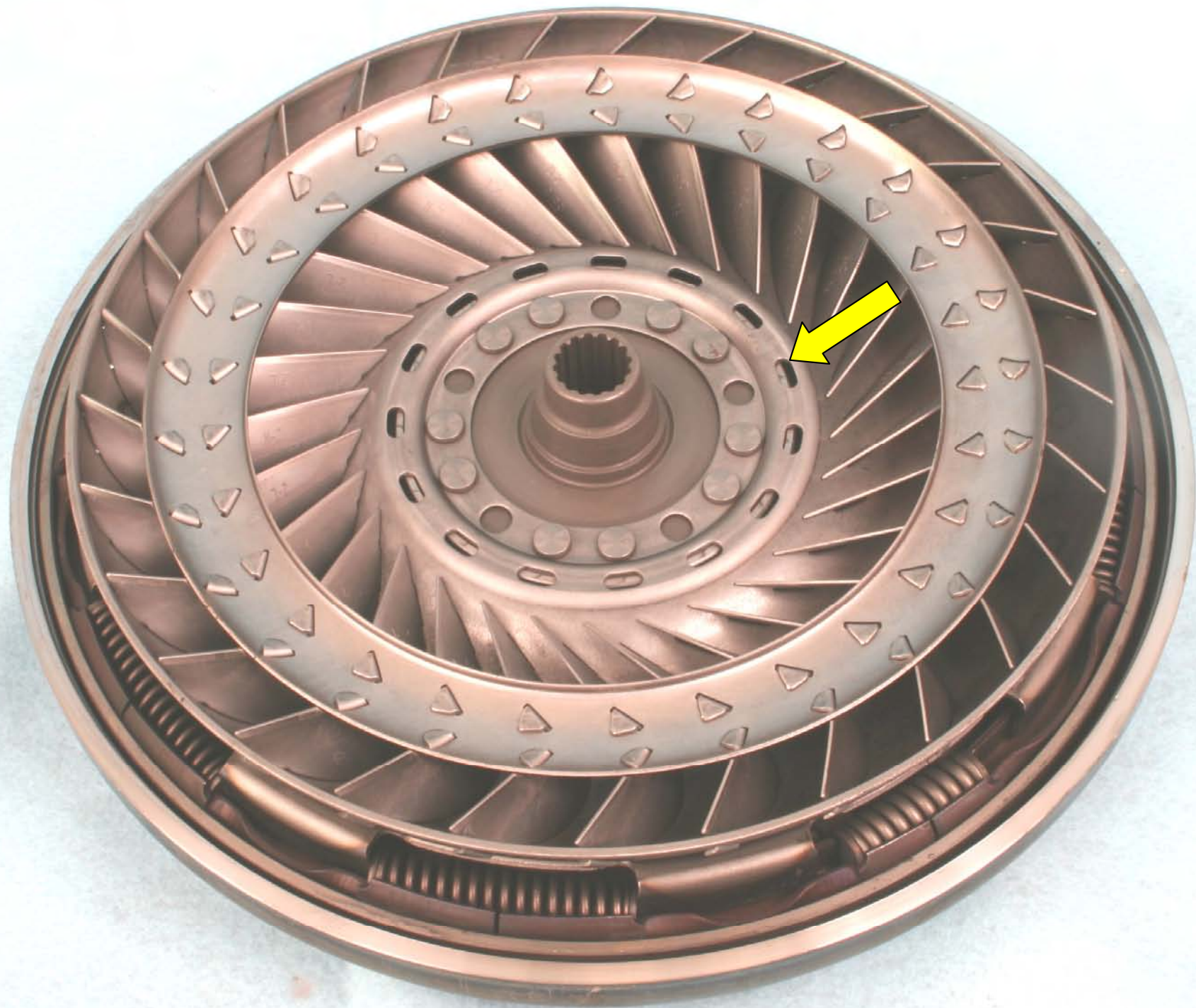
***BUSHINGS ACT AS SEALING
RINGS FOR TCC OFF CIRCUIT***

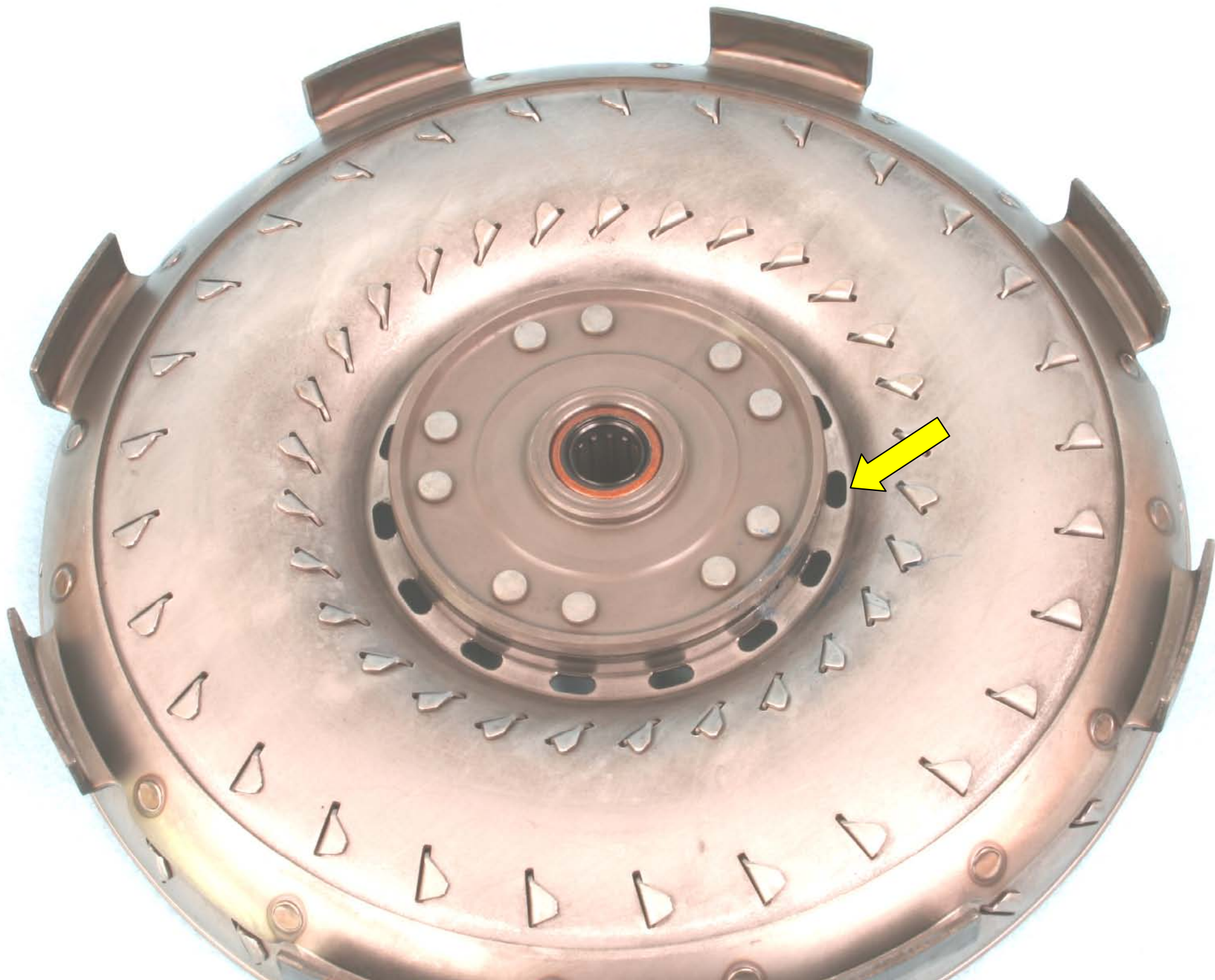


CT-30 03& UP



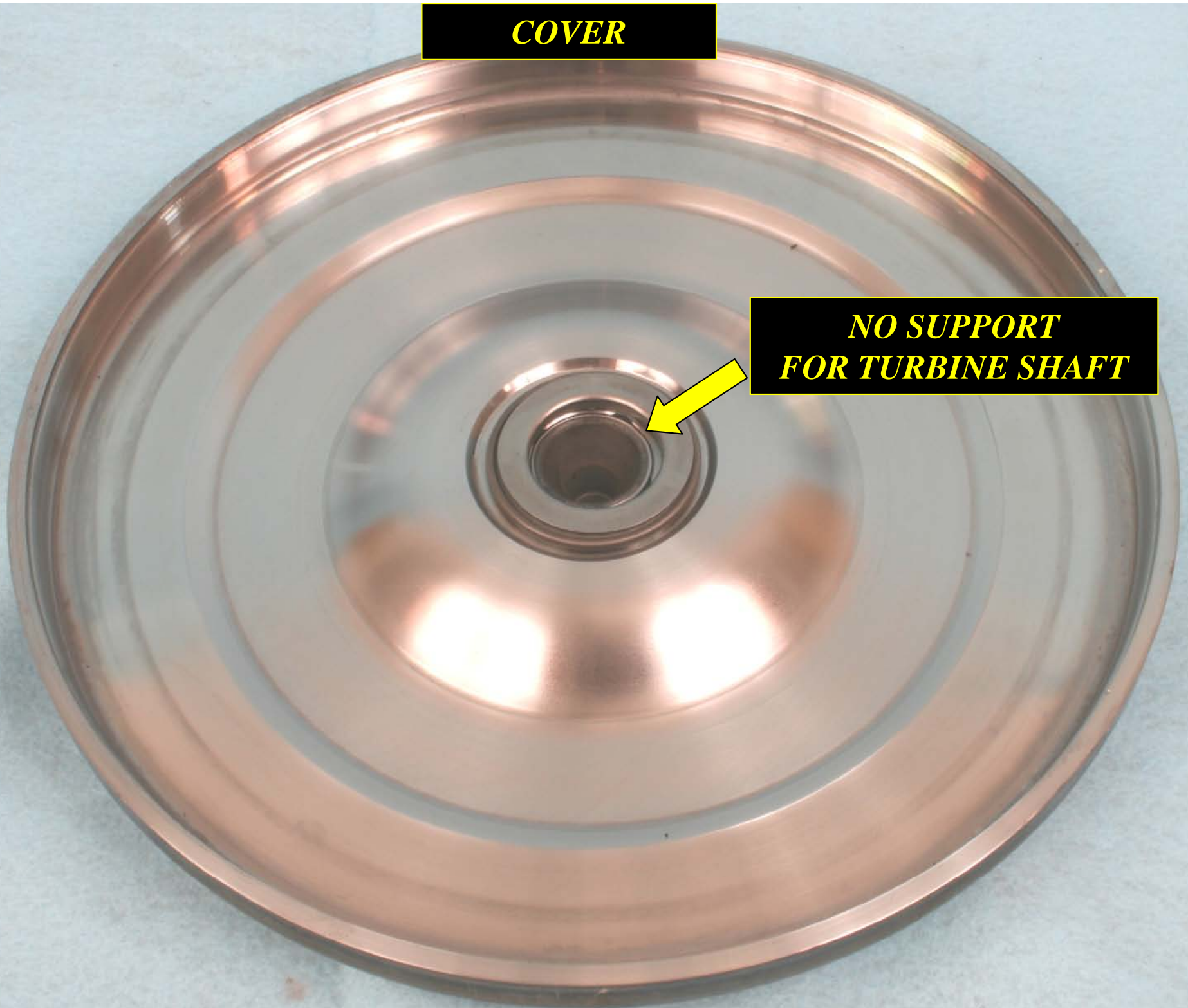






COVER

***NO SUPPORT
FOR TURBINE SHAFT***





TOYOTA A-340 SERIES

1987-1999

***TRANS FLUID OVERHEAT
TORQUE CONVERTER BLUE
T0-27 FAMILY***

DIAGNOSIS

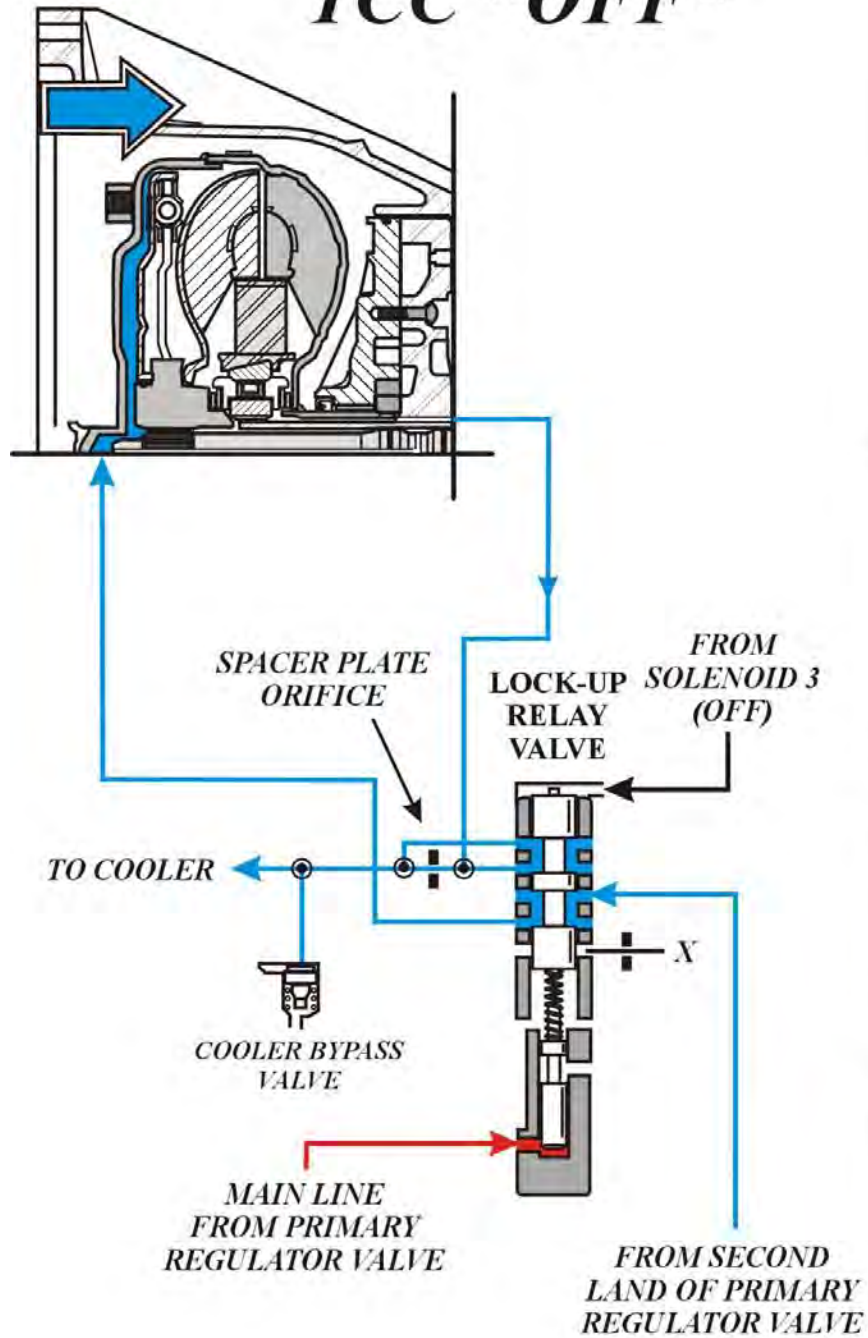
- *Check cooler flow GPM with TCC **ON***
 - *Standard is 1 qt per 20 seconds
which equals .5 to .6 GPM*
 - *High mileage Toyota A-340's
will typically run .3 to .4 GPM or below
which will cause the AT Temp
light to come **on***



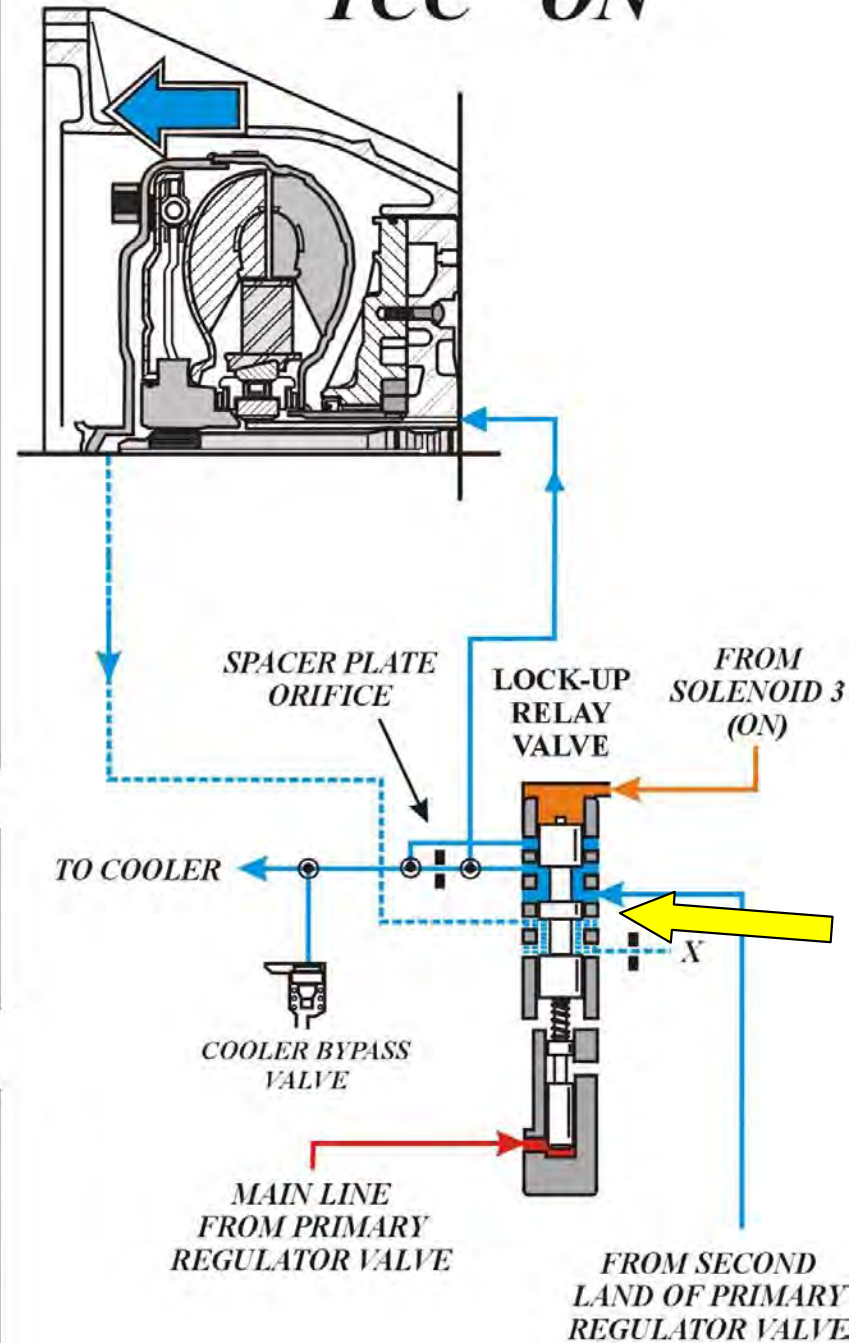
BOOST VALVE AND SLEEVE



TCC "OFF"



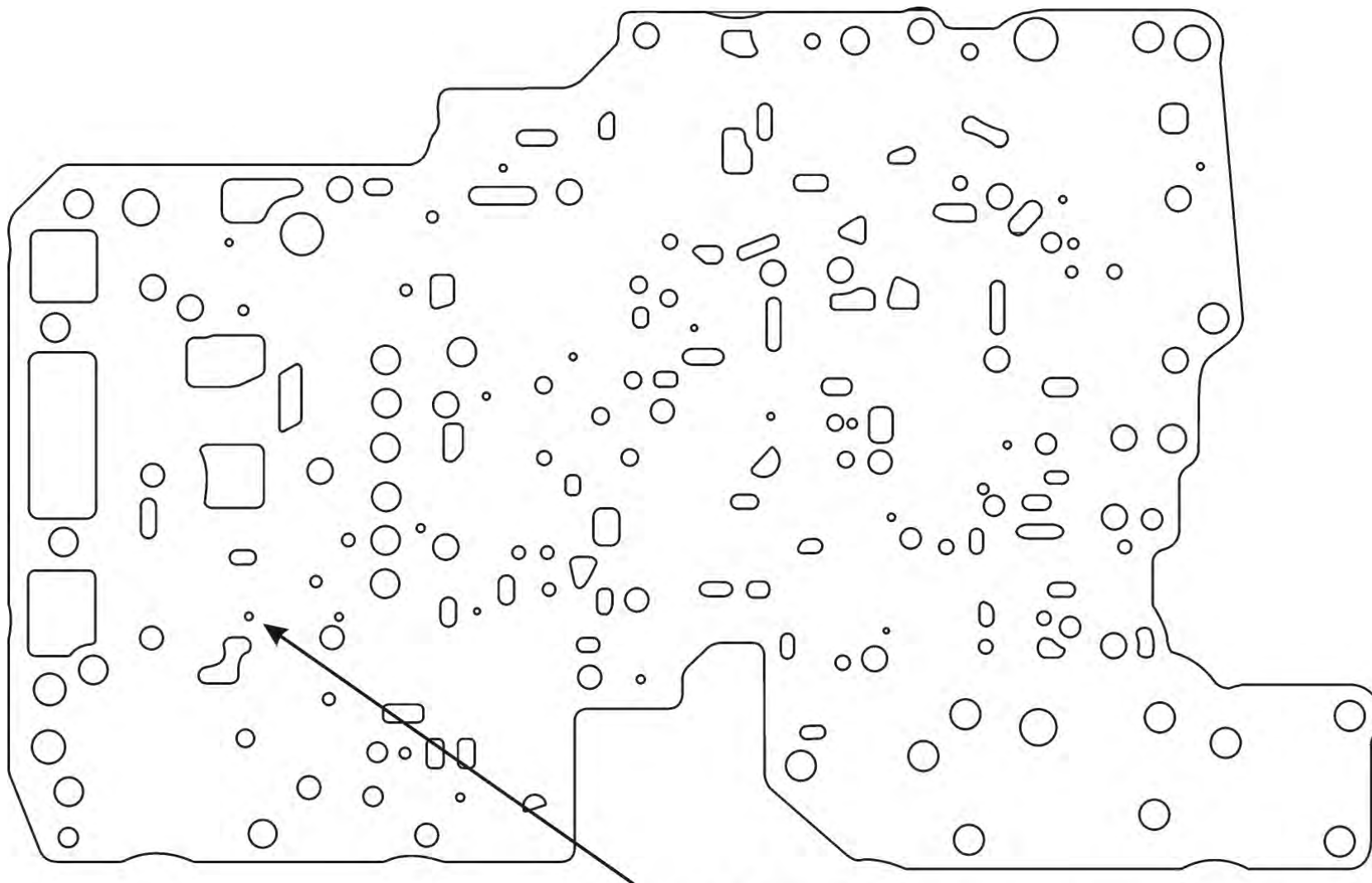
TCC "ON"



TCC RELAY VALVE AND SLEEVE







**TO COOLER
ORIFICE**

***ENLARGE THIS ORIFICE
.040" TO .050" LARGER
THAN THE ORIGINAL SIZE***

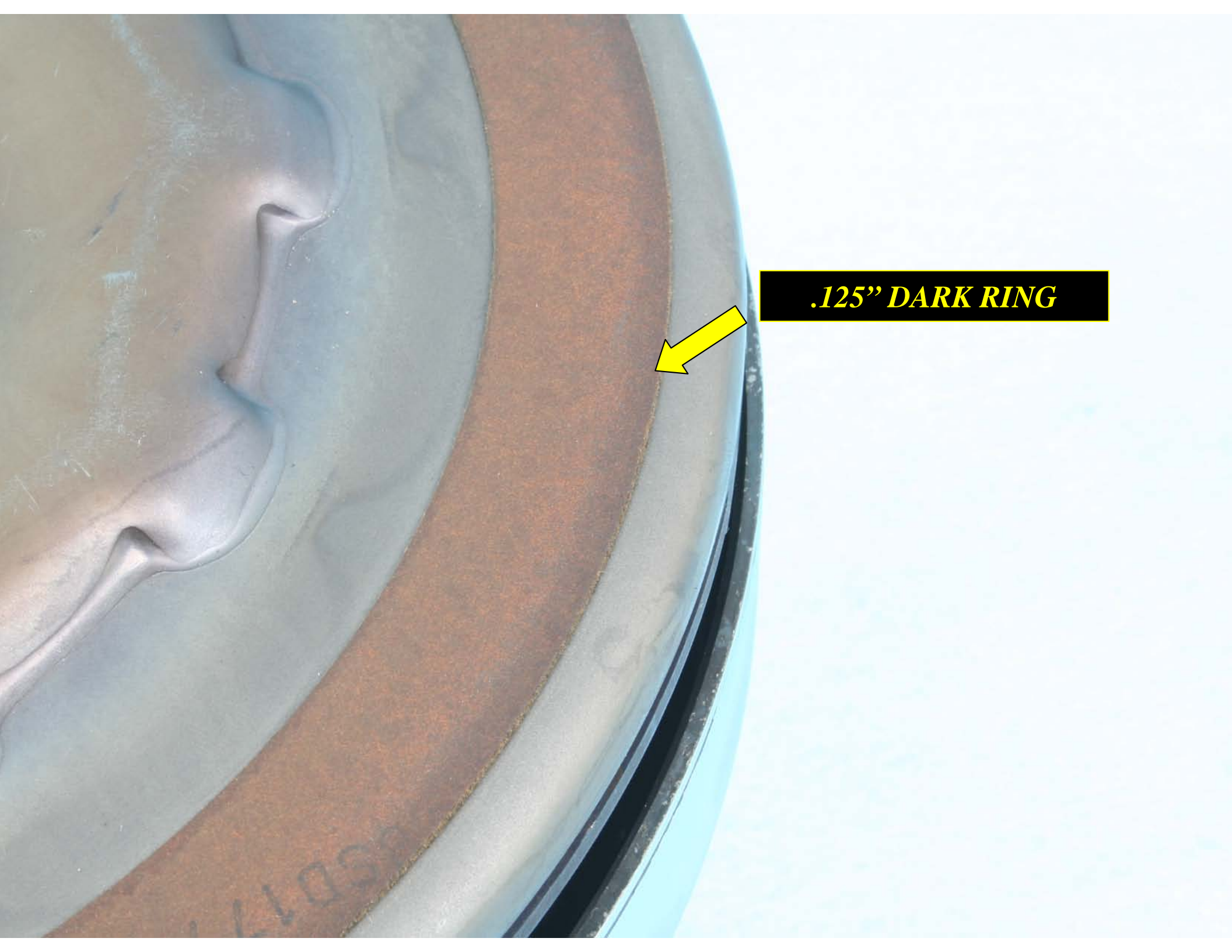
**O.E. DIAMETER
IS .059"
(ORIFICE SIZE MAY VARY)**



AUTOMATIC TRANSMISSION SERVICE GROUP

WWW.ATSG.BIZ

TOYOTA A-340
2000 & UP V-8
P0770
TCC SLIP
T0-61



.125" DARK RING

COVER

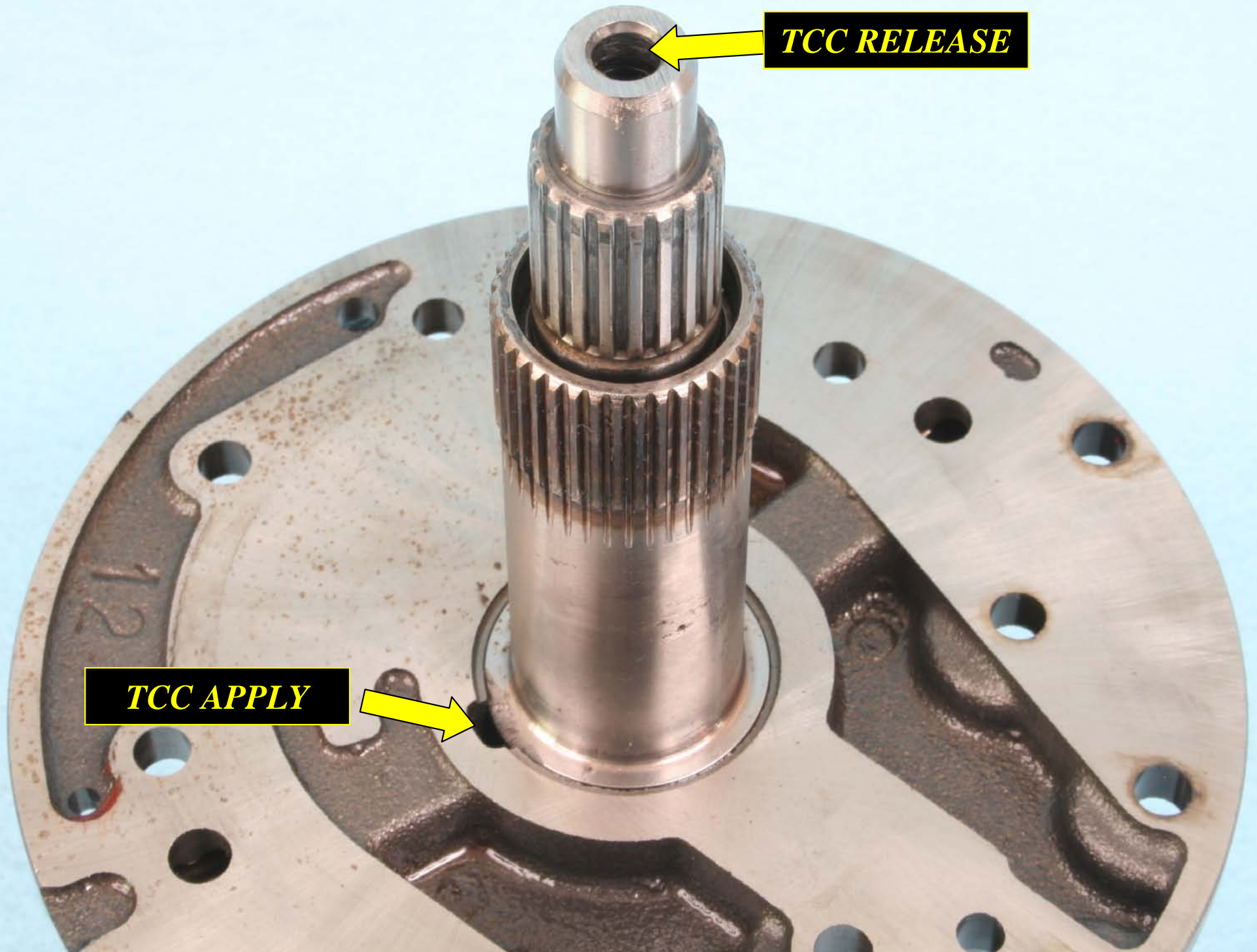
MAY BE DIS-COLORED



TCC PASSAGE I.D.

TCC RELEASE

TCC APPLY





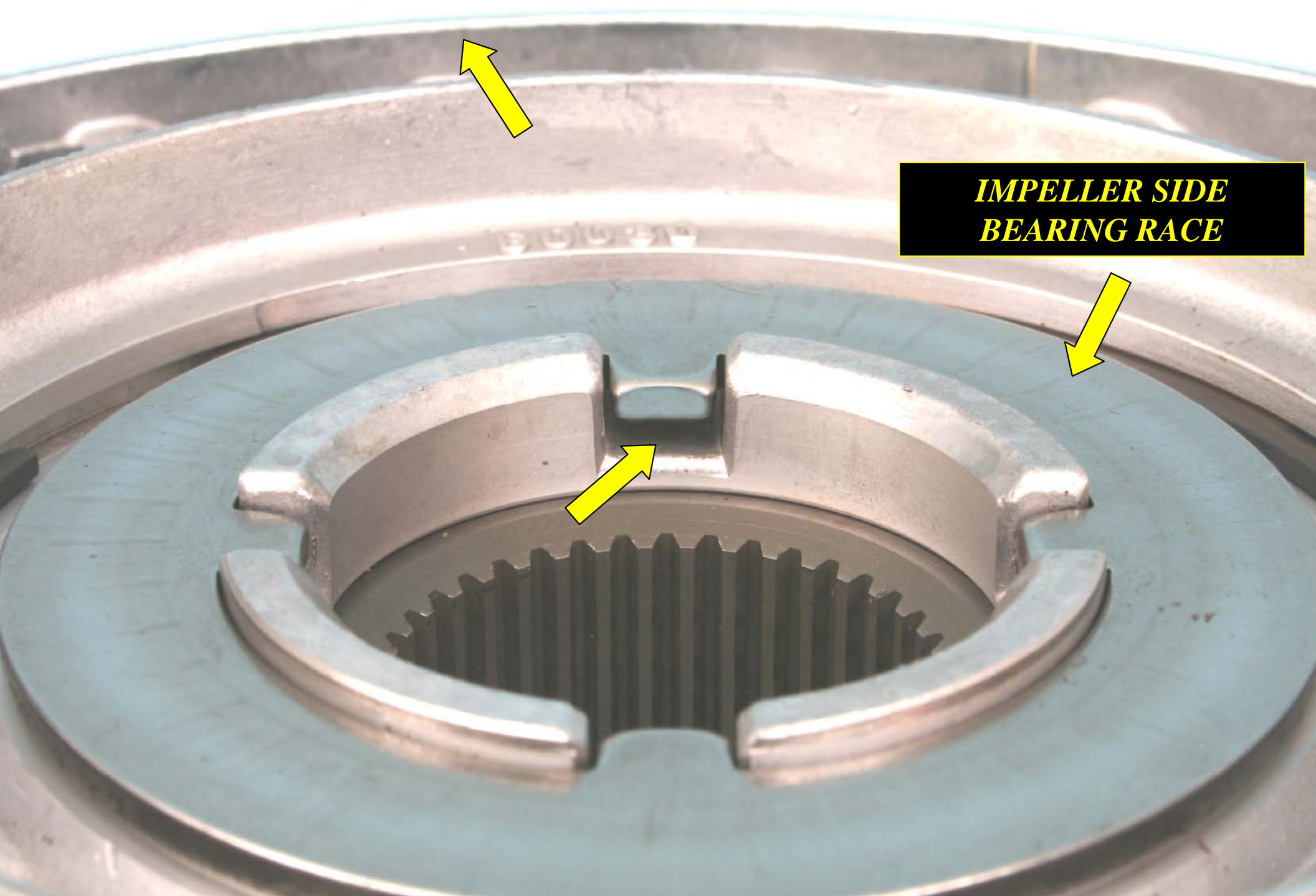
IMPELLER

BEARING LOCATION

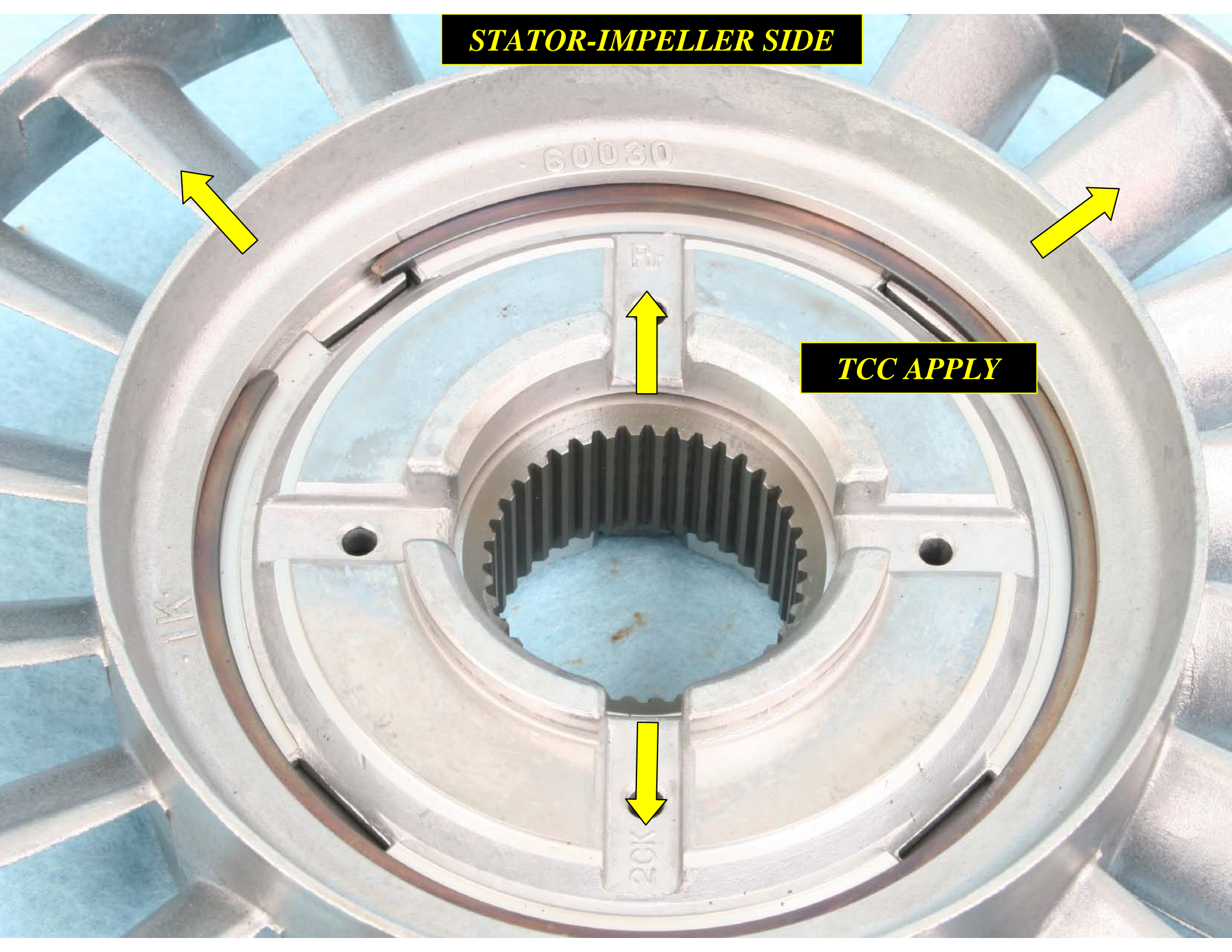
TCC APPLY

STATOR-IMPELLER SIDE

***IMPELLER SIDE
BEARING RACE***



STATOR-IMPELLER SIDE



TCC APPLY





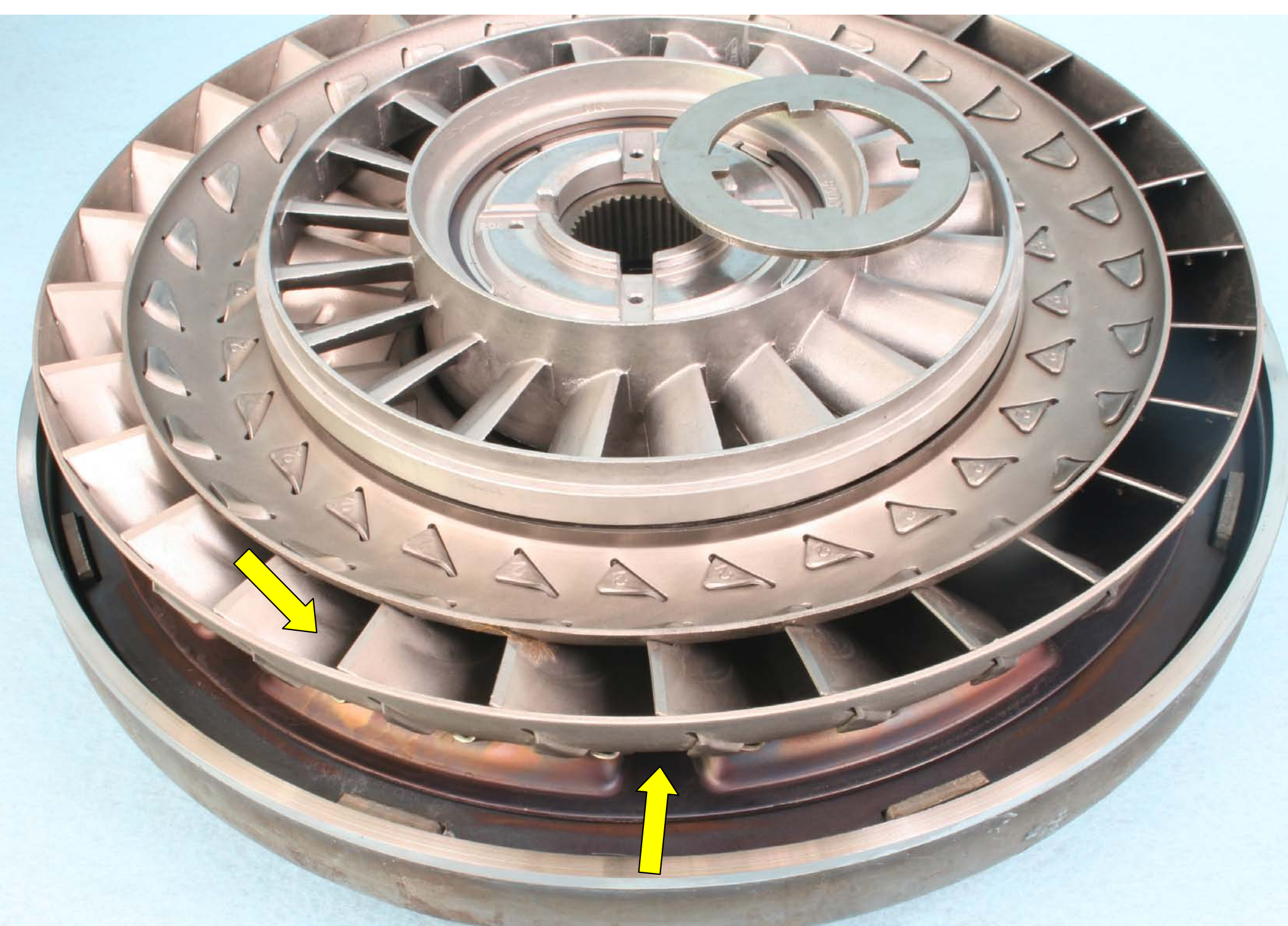
IMPELLER

This image shows a close-up of a hydraulic pump assembly. The central component is the impeller, which is a cylindrical part with a central shaft and a series of vanes. Surrounding the impeller is the stator, which is a larger circular component with a series of triangular-shaped lobes. The entire assembly is mounted on a base. Yellow arrows point to the impeller, the stator, and two specific areas labeled 'TCC APPLY'.

TCC APPLY

TCC APPLY

STATOR



TURBINE INSTALLED IN COVER



TURBINE

This image shows a close-up of a mechanical assembly, likely a torque converter. At the top, a turbine housing is visible with a circular array of internal blades. Below it is a curved metal component, possibly a stator or a part of the clutch assembly, featuring several small, pointed protrusions. A third component, the clutch housing, is at the bottom, showing a series of rectangular slots. Three yellow arrows indicate the flow or direction: one points from the turbine housing down towards the clutch housing, another points from the right side of the middle component towards the center, and a third points upwards from the clutch housing towards the middle component. The labels 'TURBINE' and 'TO CLUTCH' are placed near the top and bottom components respectively.

TO CLUTCH



TCC APPLY

This image shows the internal components of a turbine damper. The central part is a circular assembly with a central shaft. Surrounding this is a ring with several small, circular features. The outermost part is a large, circular housing with several slots, each containing a coiled spring. The entire assembly is mounted on a base. The labels point to various parts: 'TCC APPLY' points to the top and bottom slots; 'TURBINE SHAFT SEAL' points to the central shaft; 'SEALING RING' points to the ring around the shaft; and 'DAMPER SIDE OF TURBINE' points to the bottom slot. The 'TCC APPLY' label appears twice, once on the left and once on the right.

TCC APPLY

TURBINE SHAFT SEAL

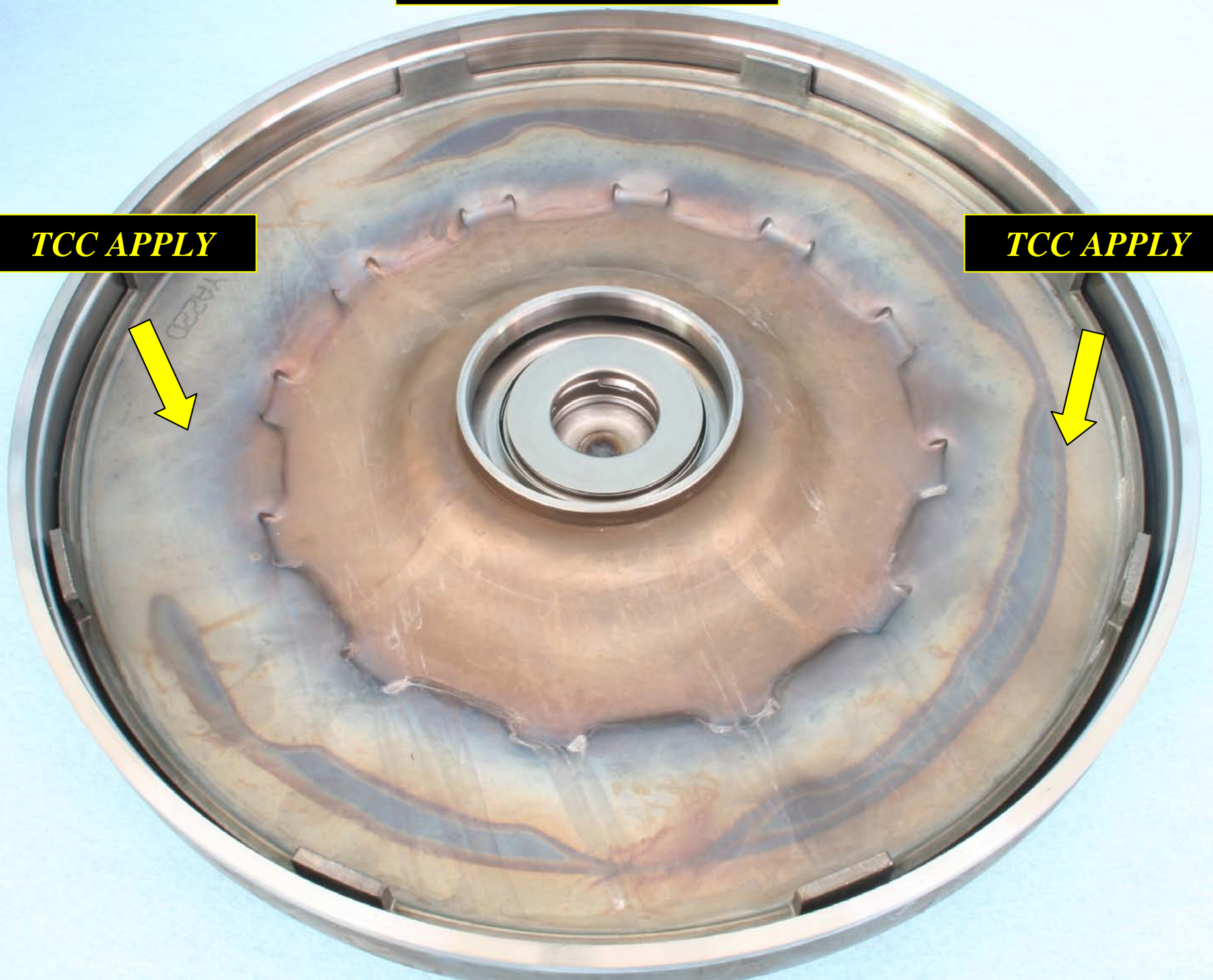
SEALING RING

DAMPER SIDE OF TURBINE

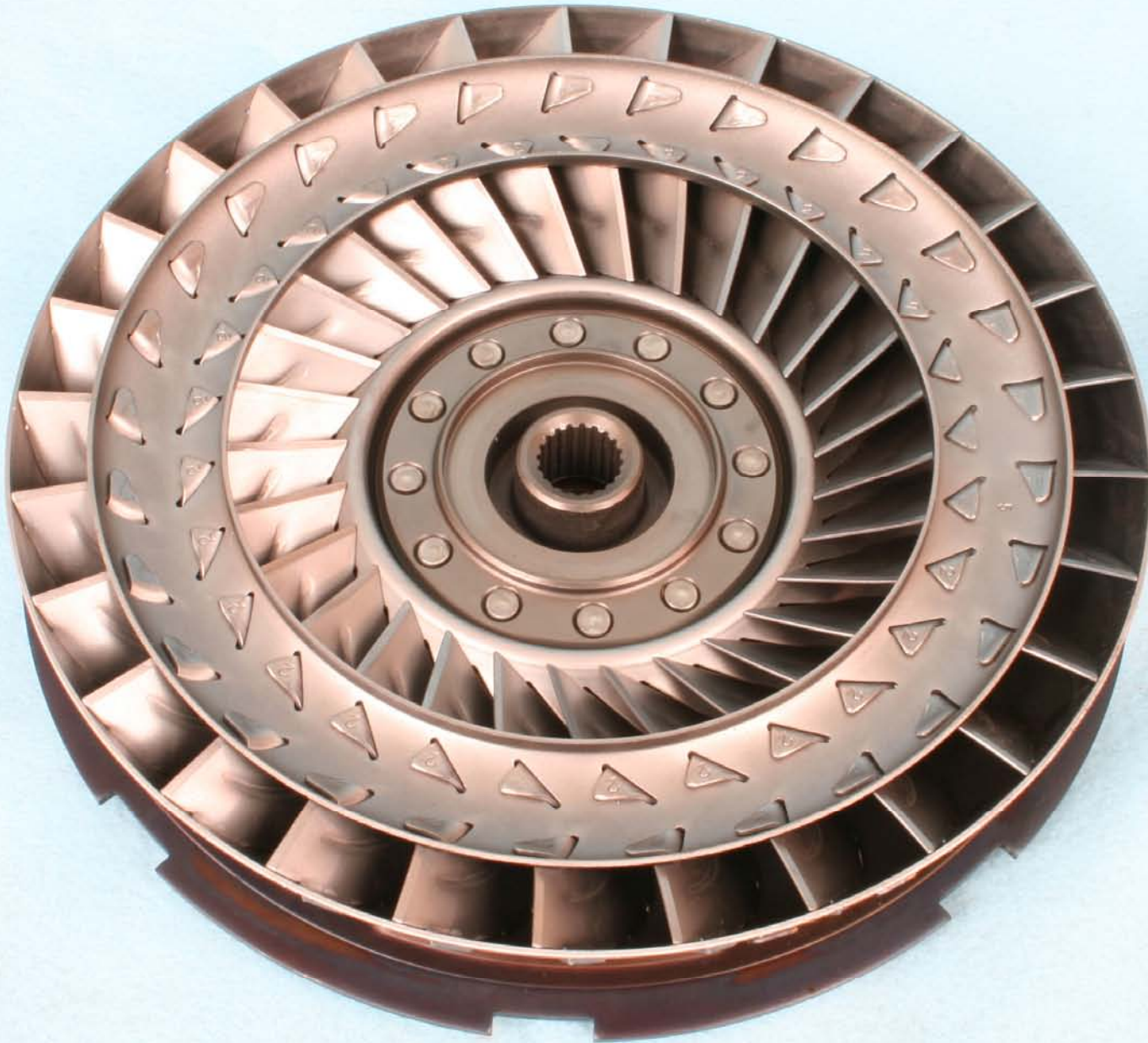
TCC APPLY PISTON

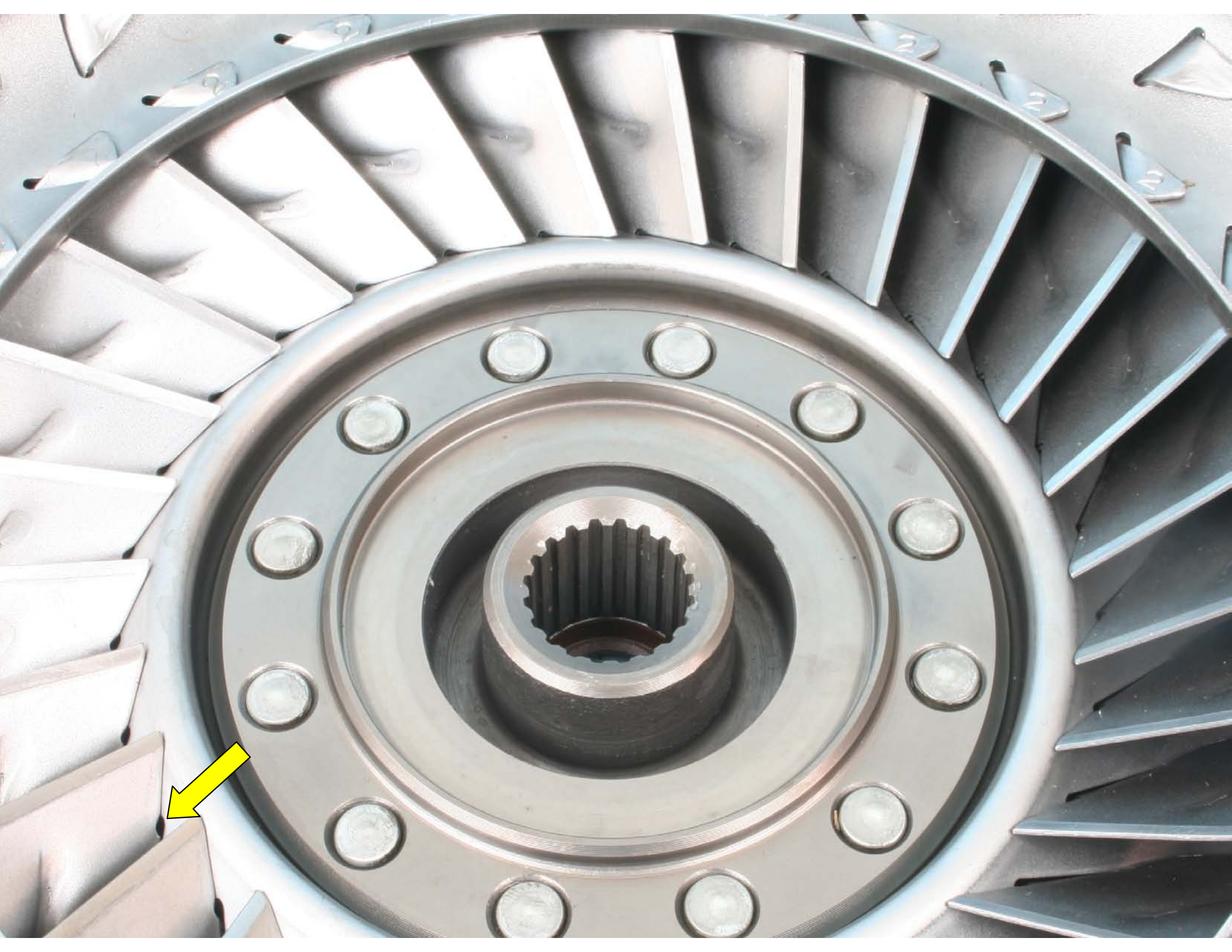
TCC APPLY

TCC APPLY

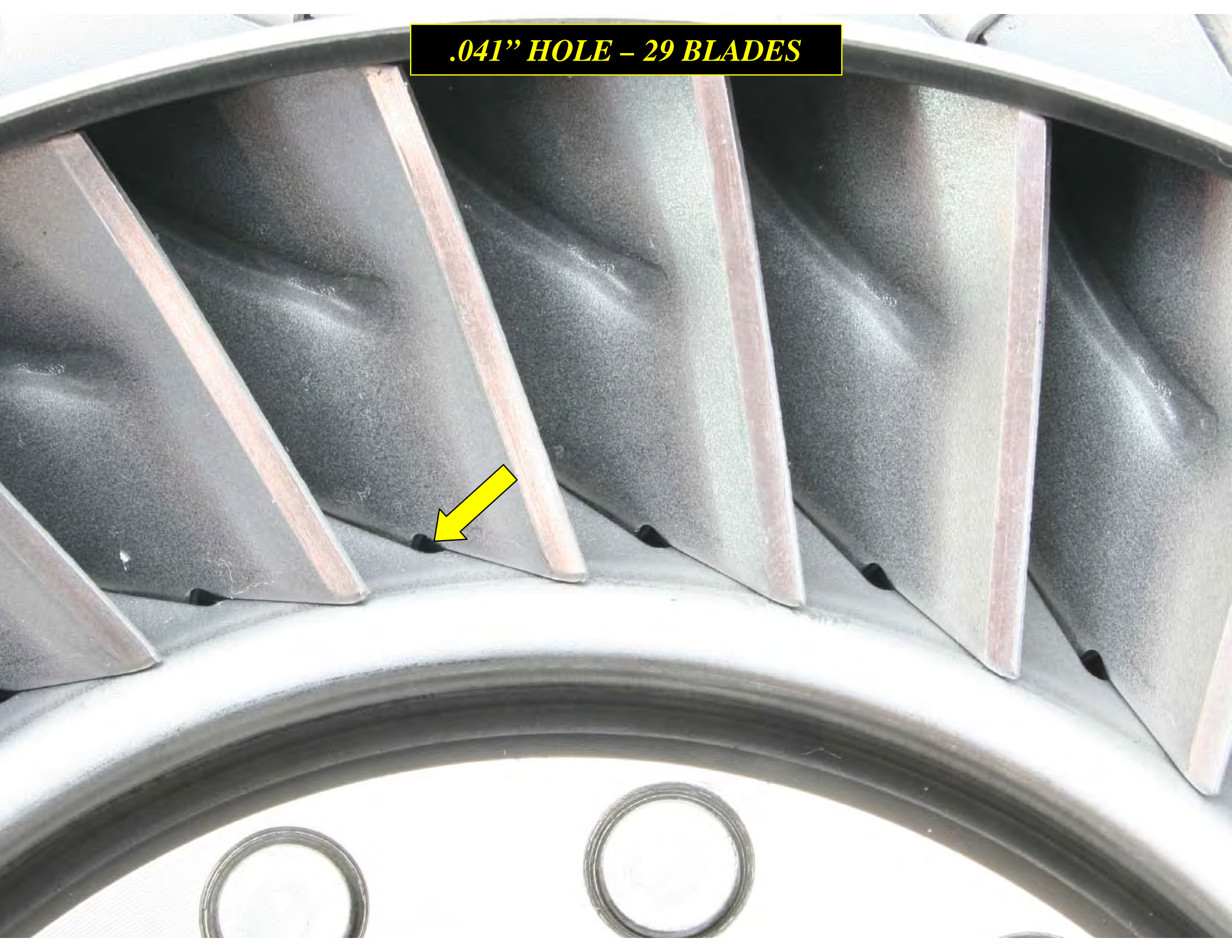


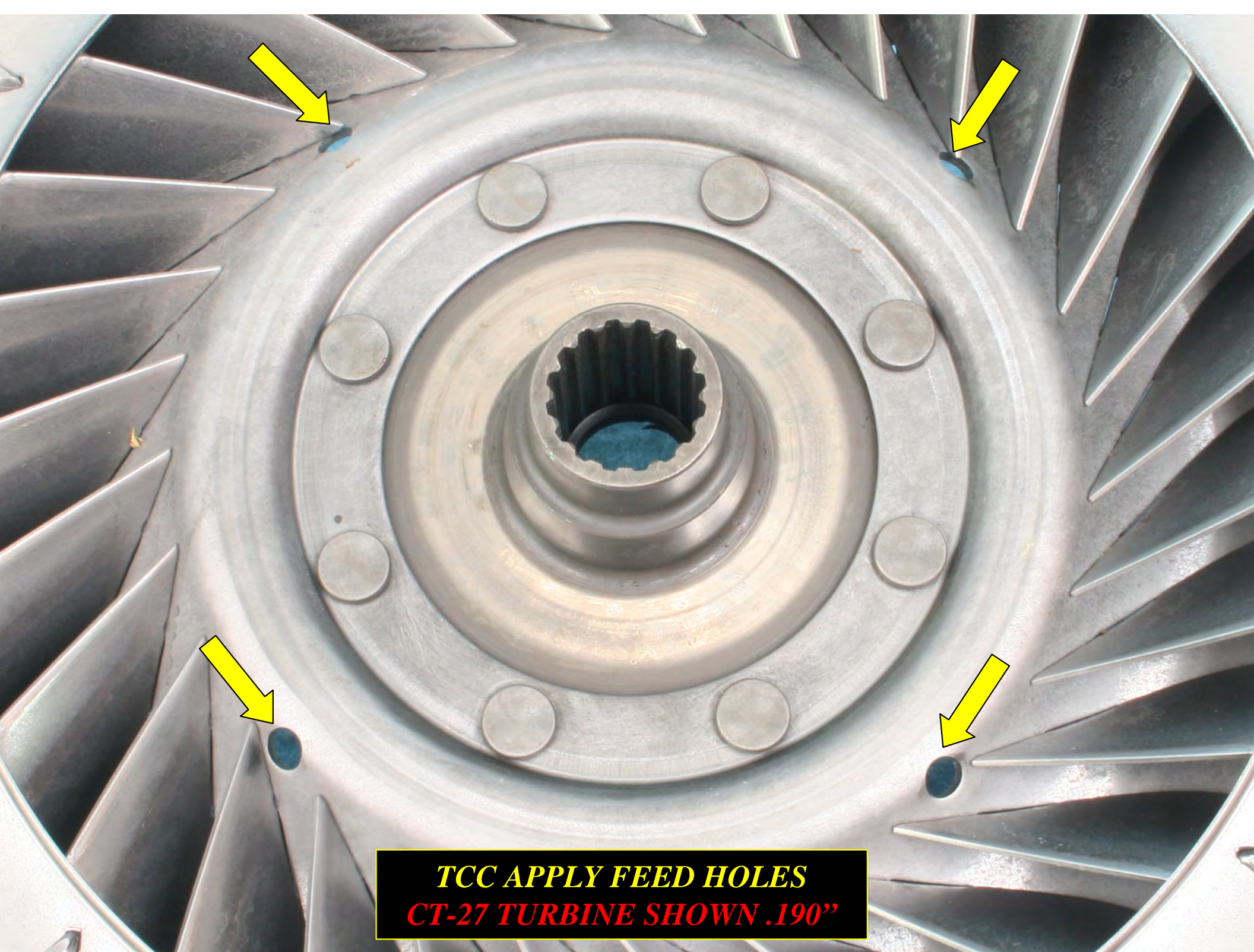
TURBINE





.041" HOLE – 29 BLADES





***TCC APPLY FEED HOLES
CT-27 TURBINE SHOWN .190"***



AUTOMATIC TRANSMISSION SERVICE GROUP

WWW.ATSG.BIZ

TOYOTA A-245/246

DTC P0770

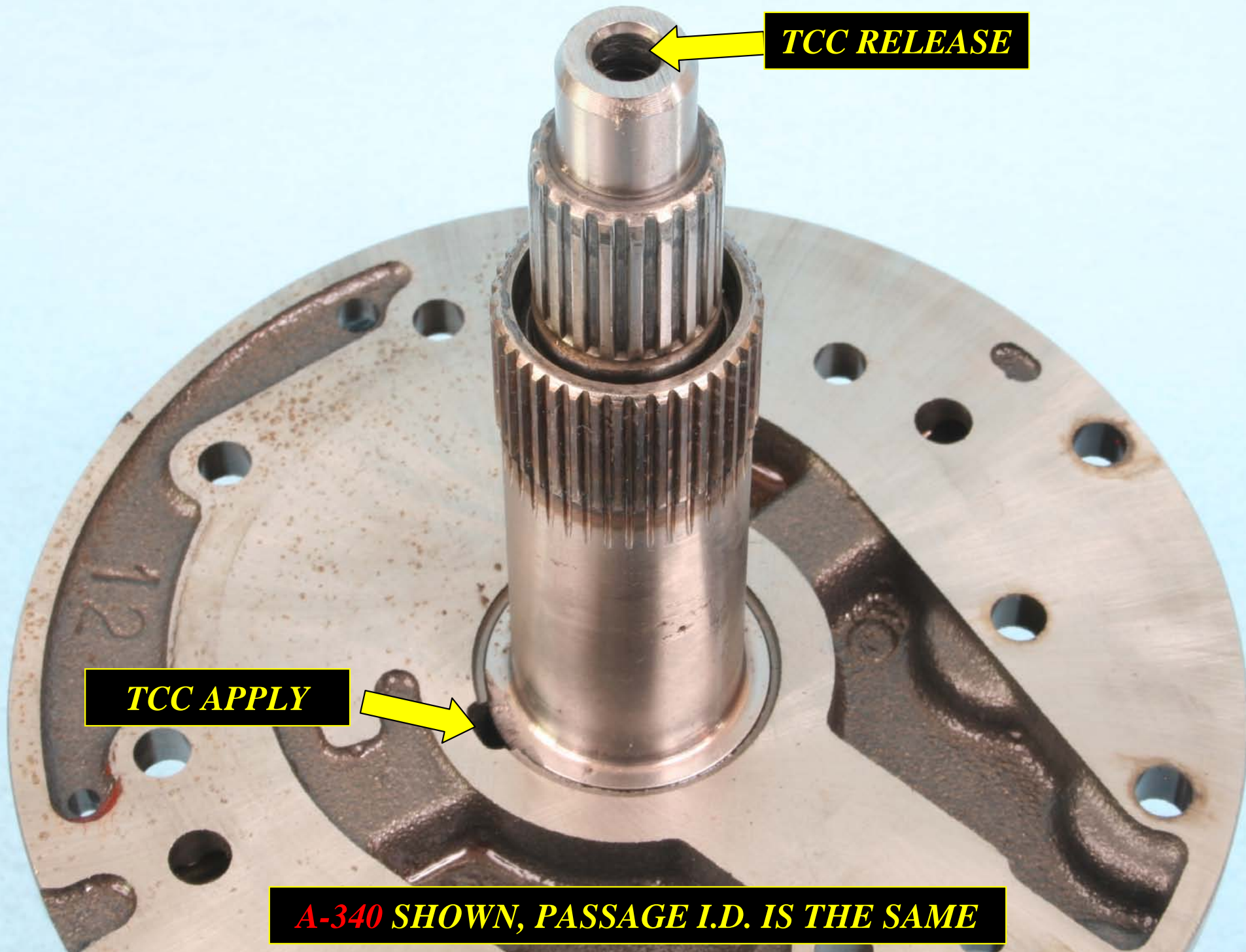
T0-39

A-245 PORT I.D.

TCC RELEASE

TCC APPLY

A-340 SHOWN, PASSAGE I.D. IS THE SAME



STATOR BUSHING





AUTOMATIC TRANSMISSION SERVICE GROUP

WWW.ATSG.BIZ

ISUZU 4L30-E

2000 & UP EC3

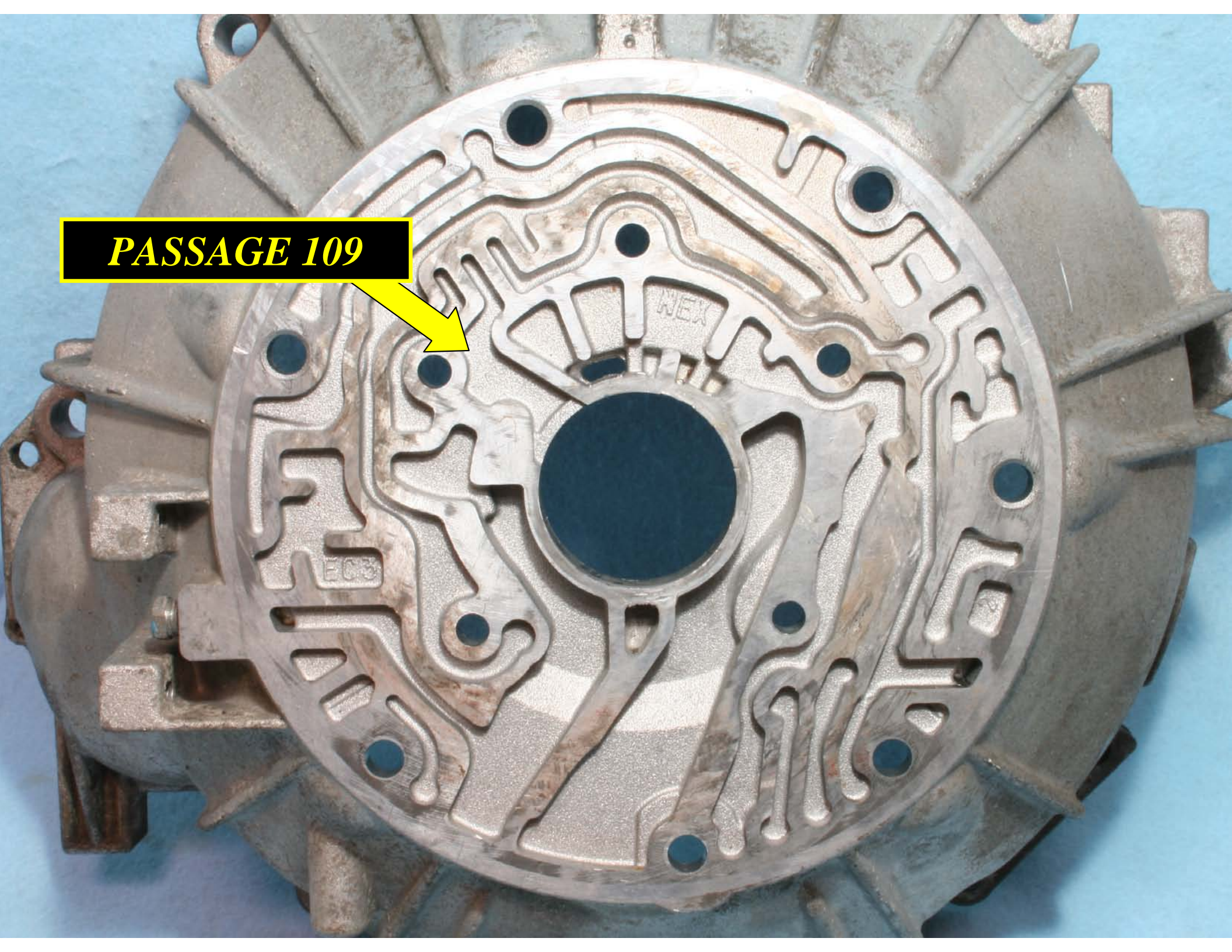
PARTIAL ENGINE STALL

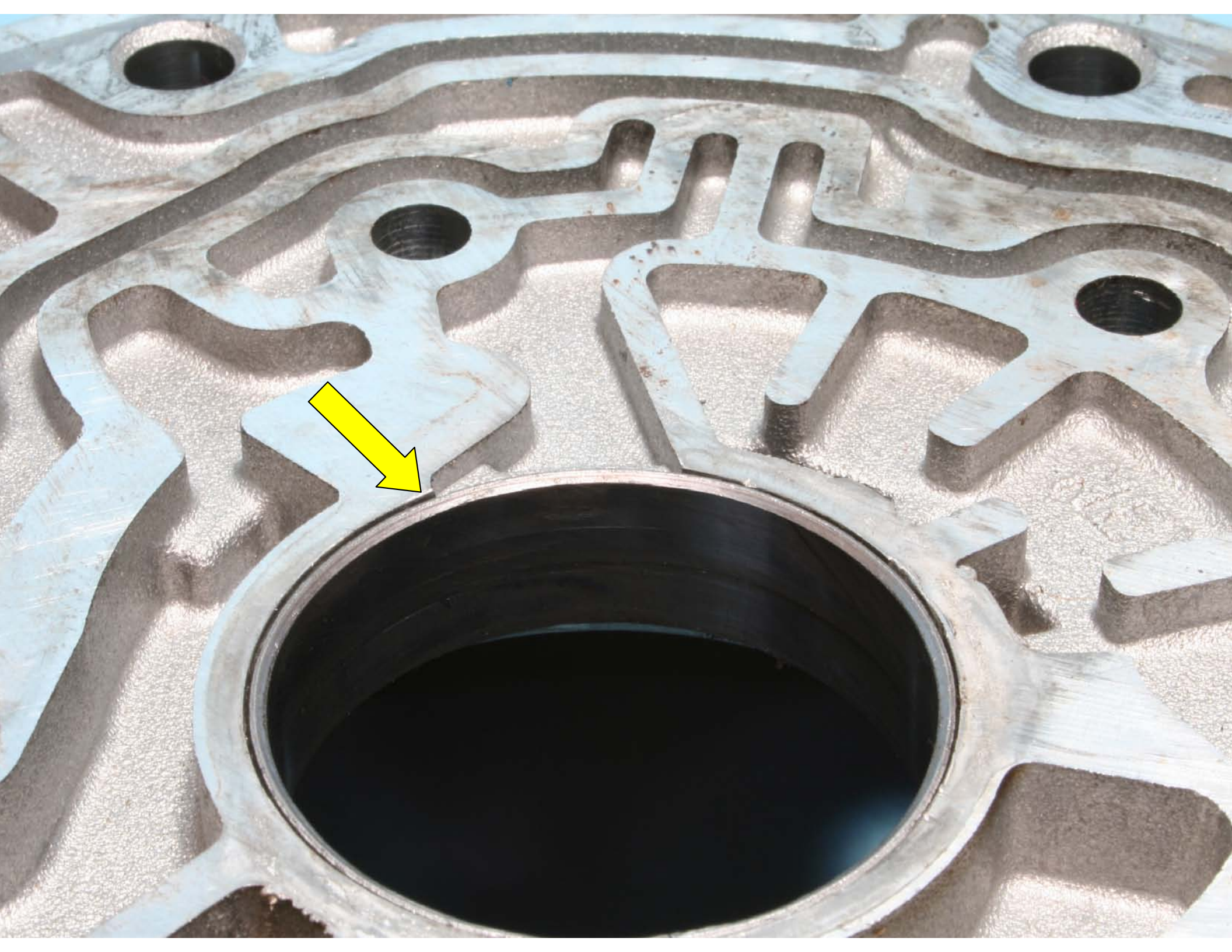
TORQUE CONVERTER BLUE

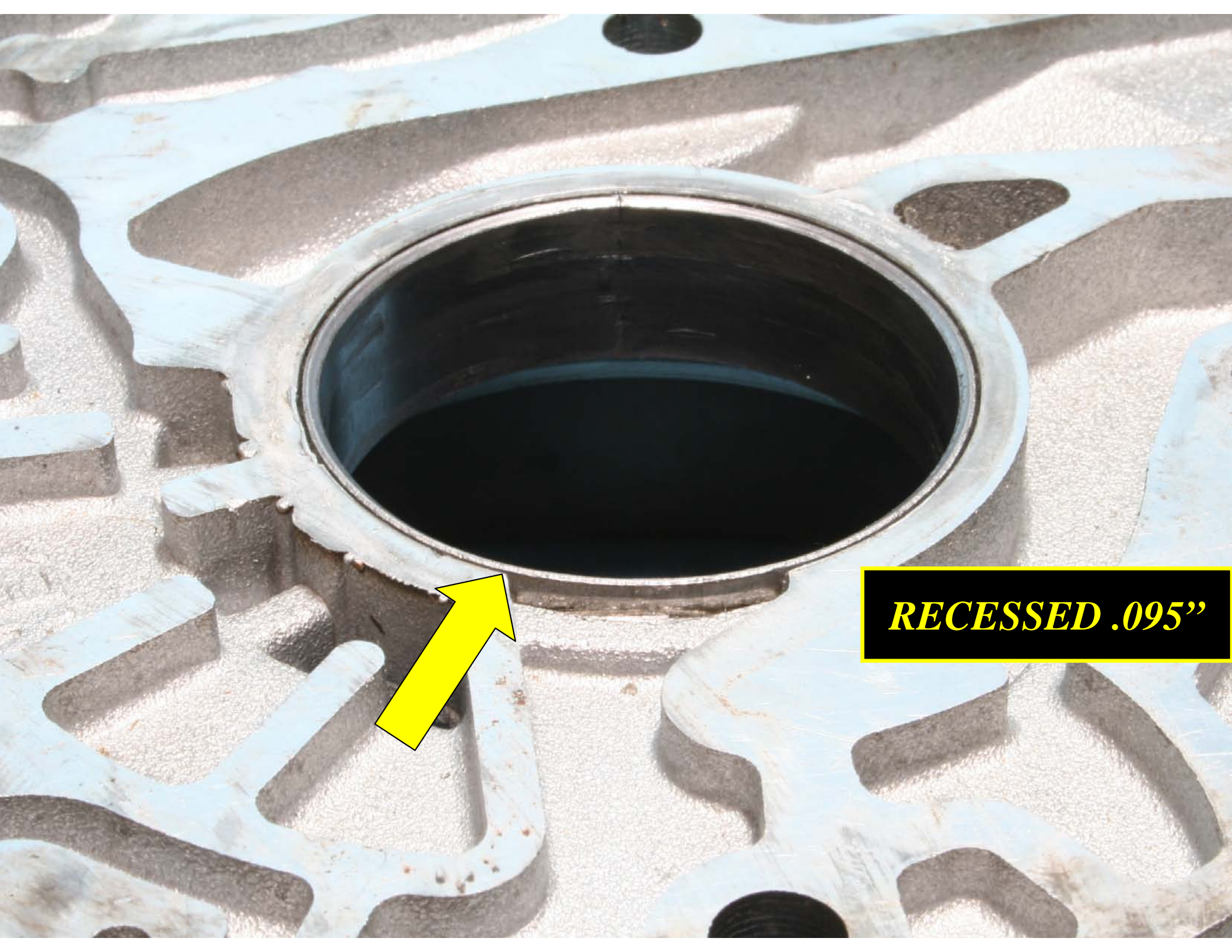
B-25-WOVEN OR

HIGH CARBON LINING

PASSAGE 109



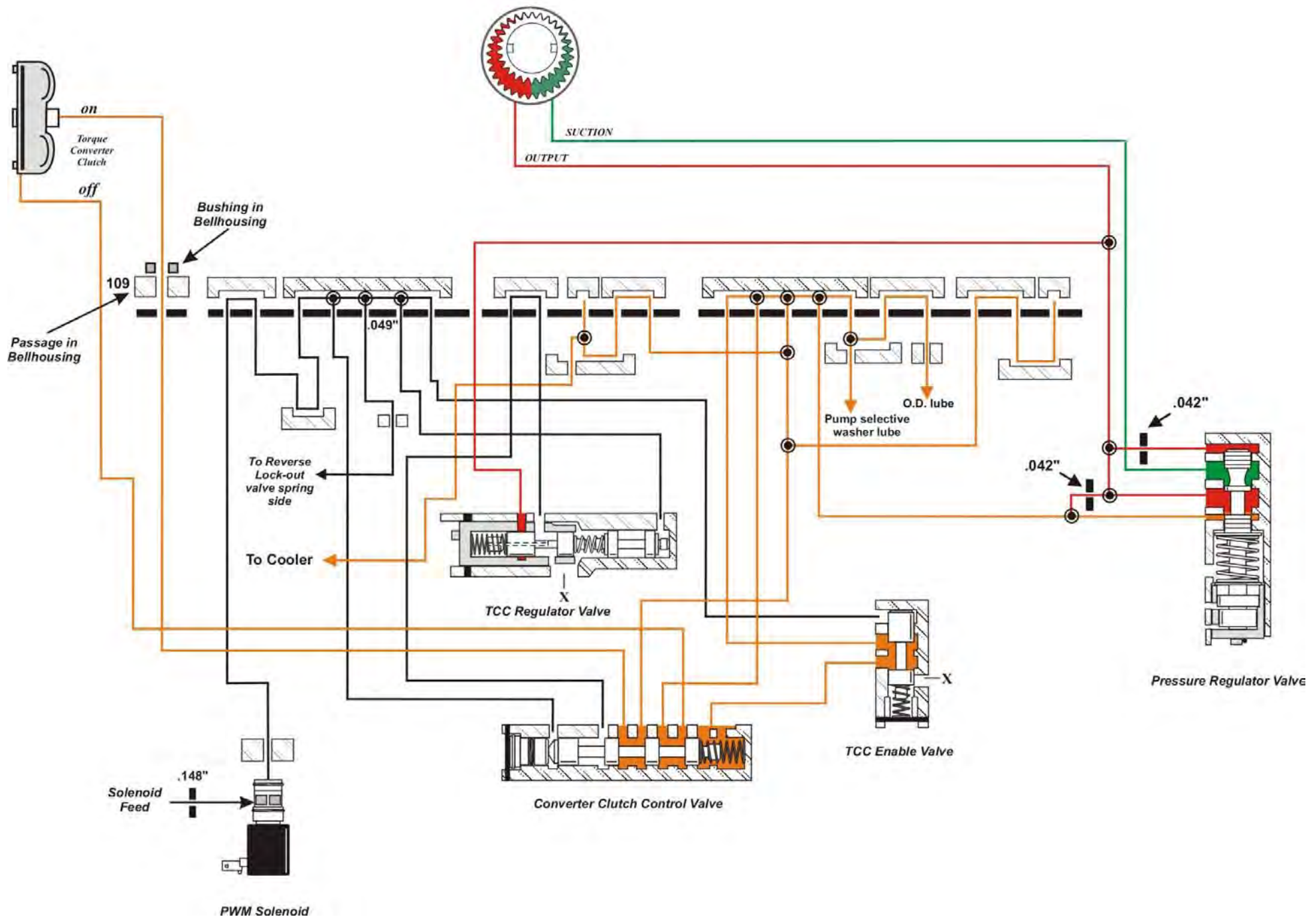




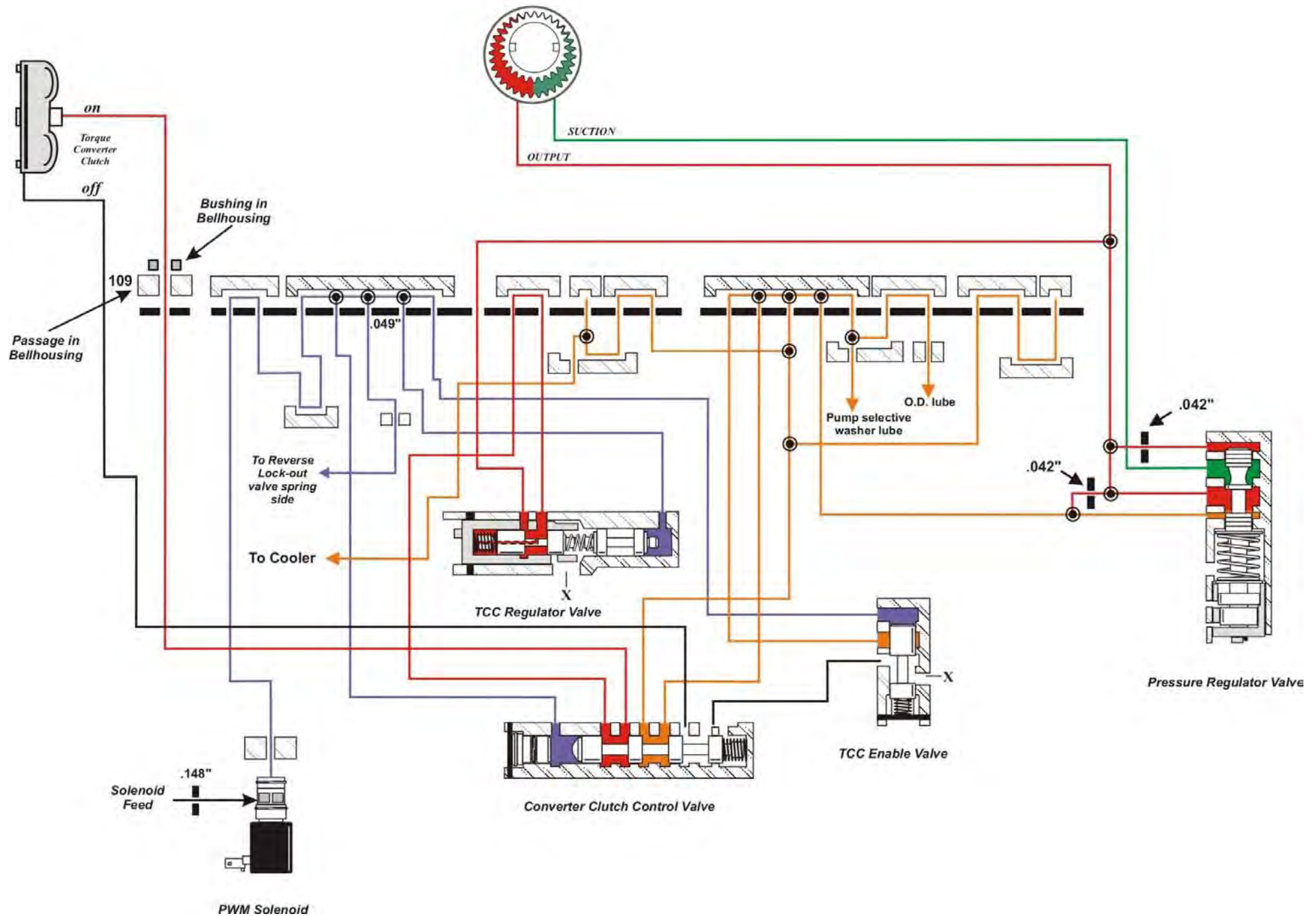
RECESSED .095"

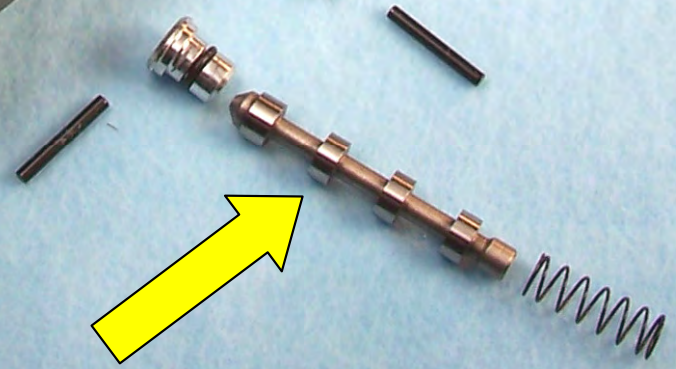
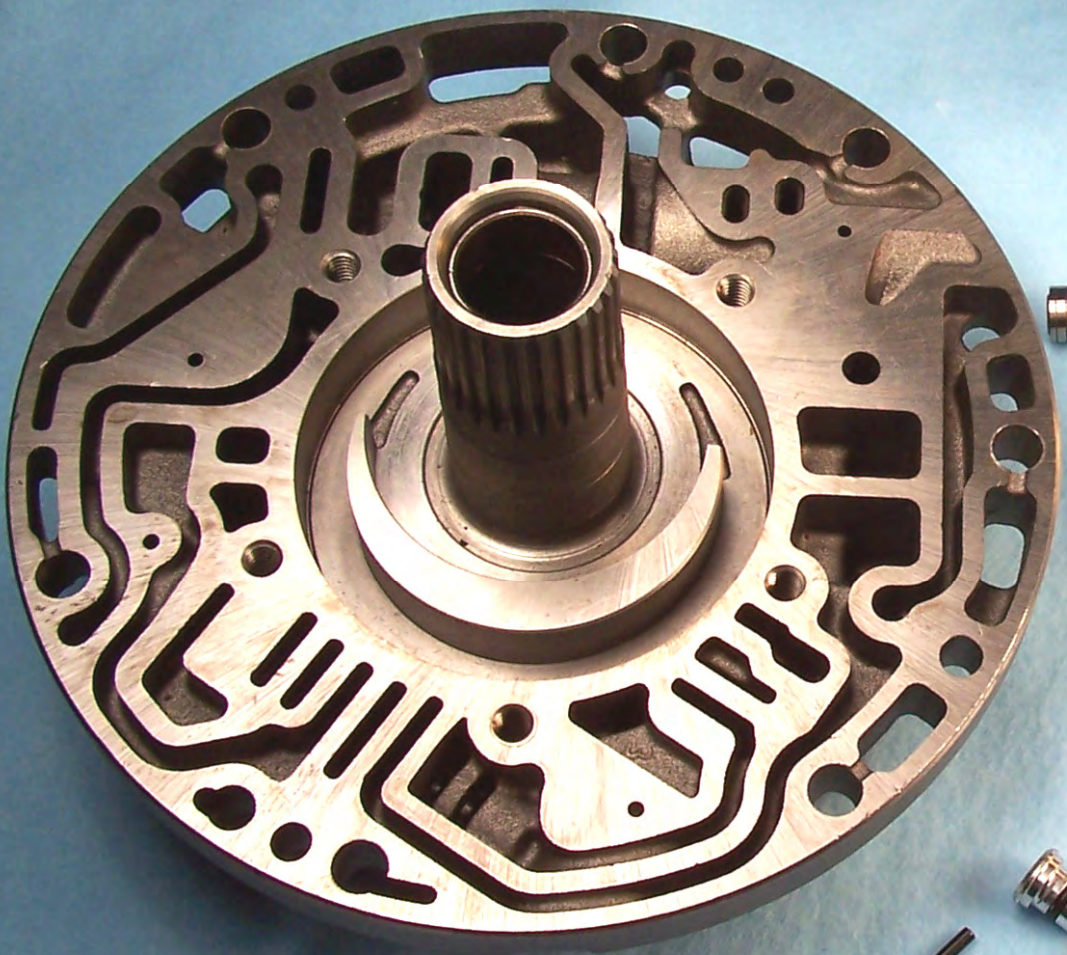


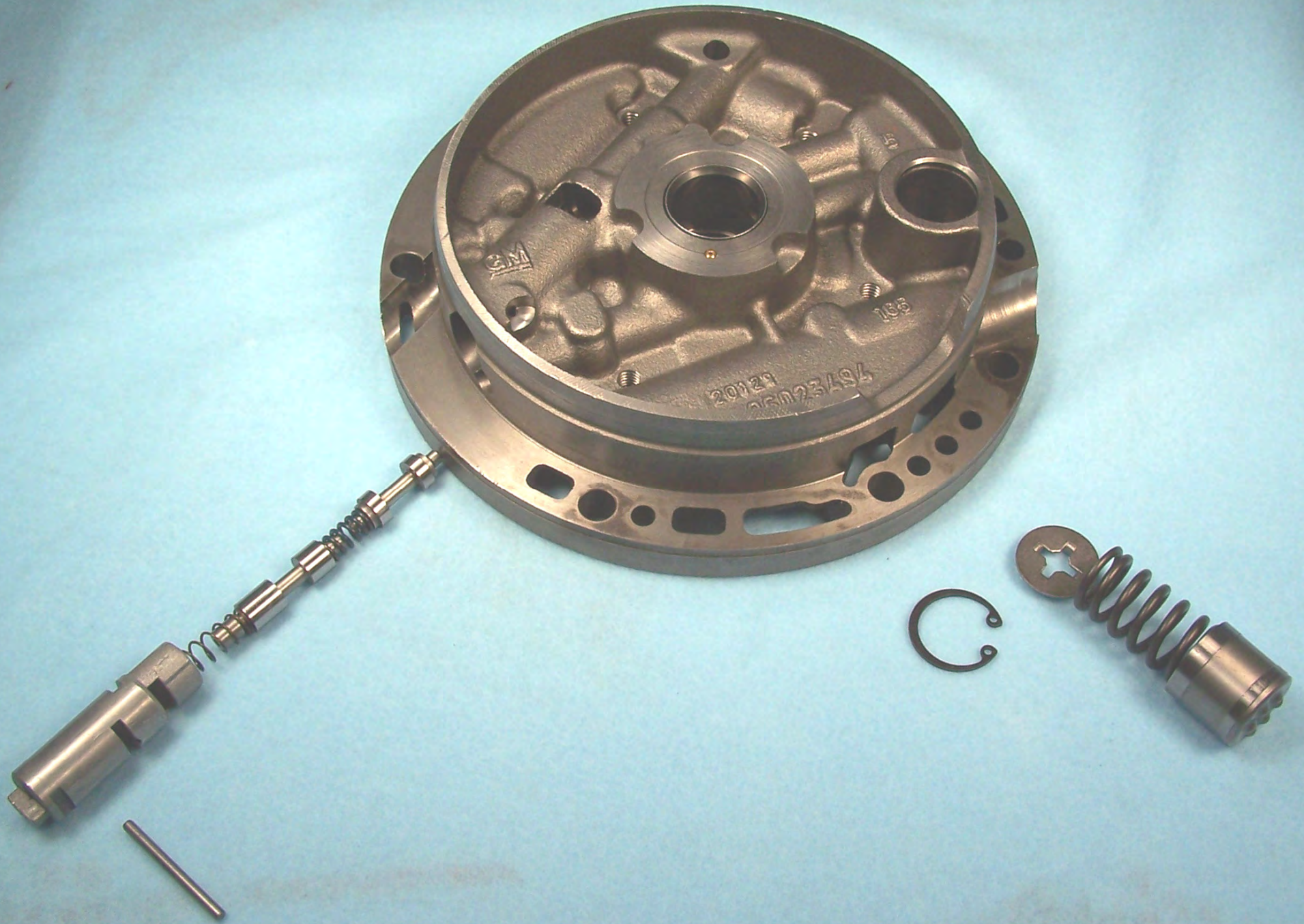
PWM TCC "OFF" PARTIAL SCHEMATIC

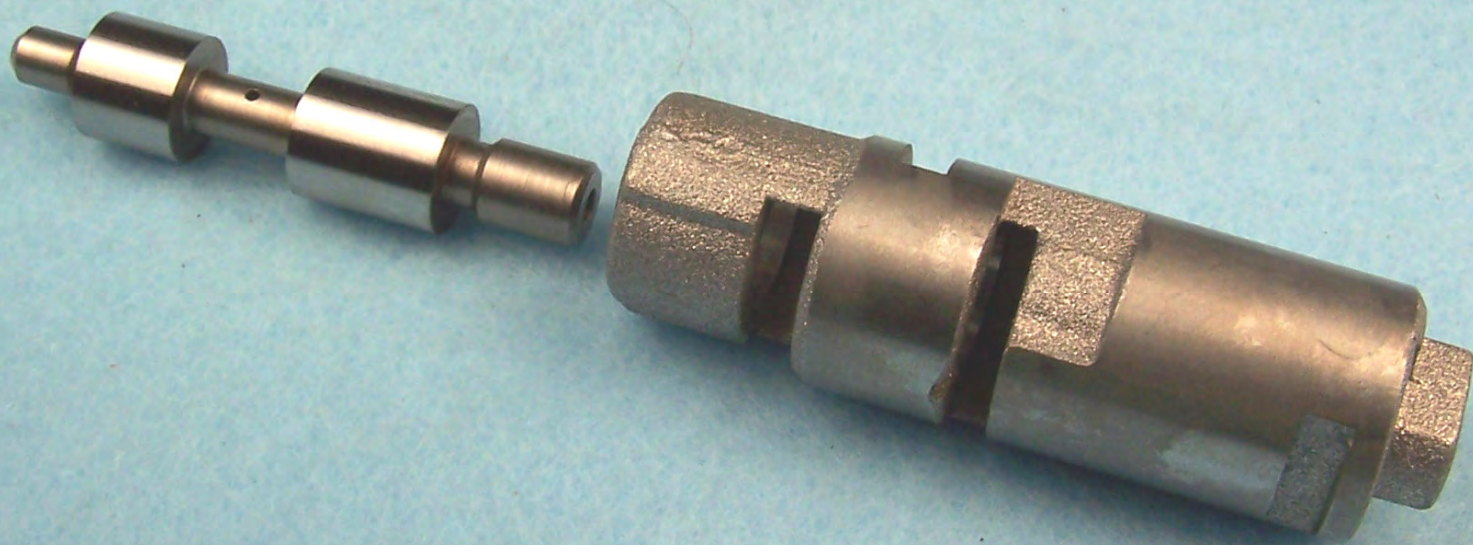


PWM TCC "ON" PARTIAL SCHEMATIC











AUTOMATIC TRANSMISSION SERVICE GROUP

WWW.ATSG.BIZ

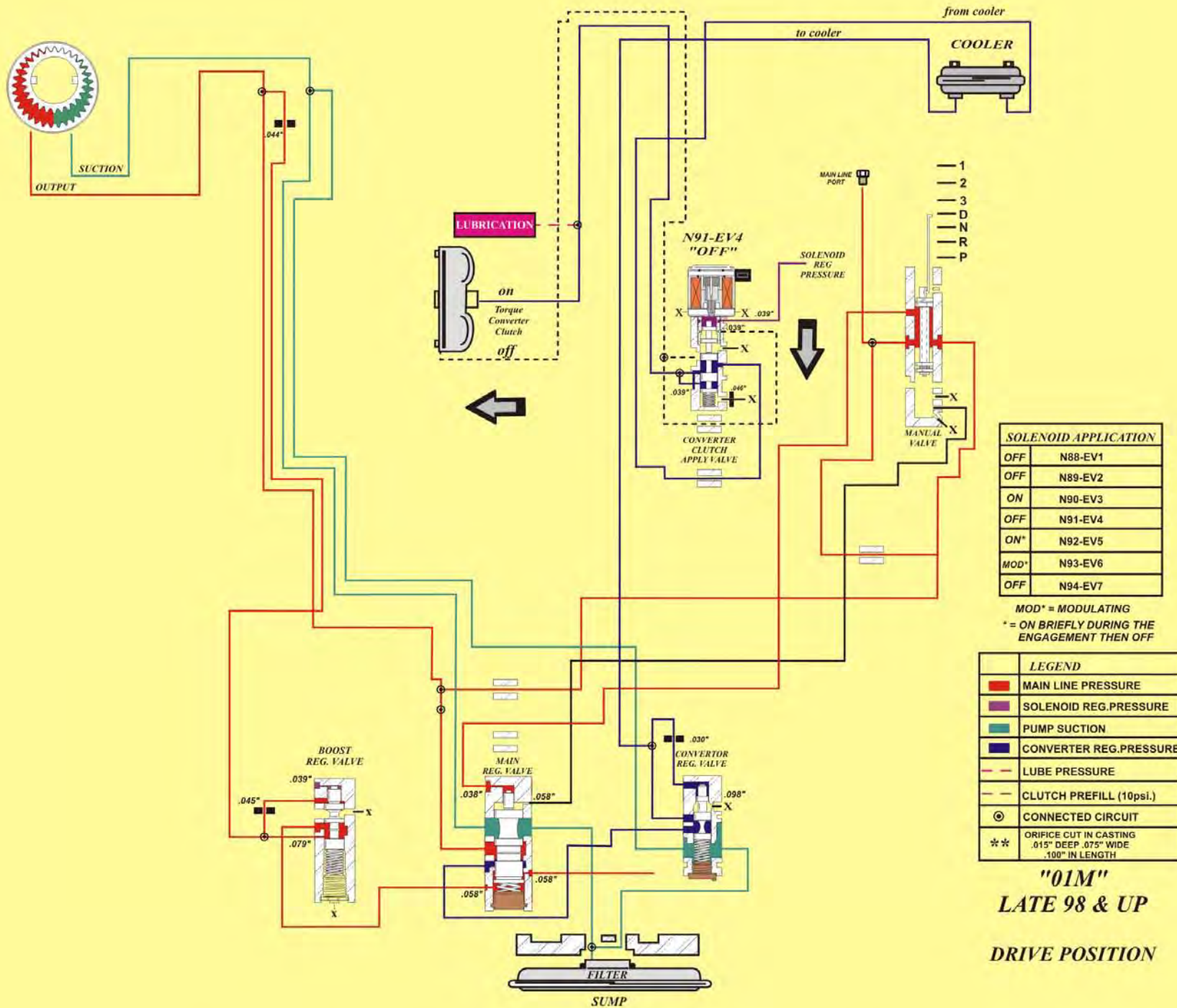
***VW/AUDI 01M/01N/01P
PARTIAL ENGINE STALL
RE-10***

EV4



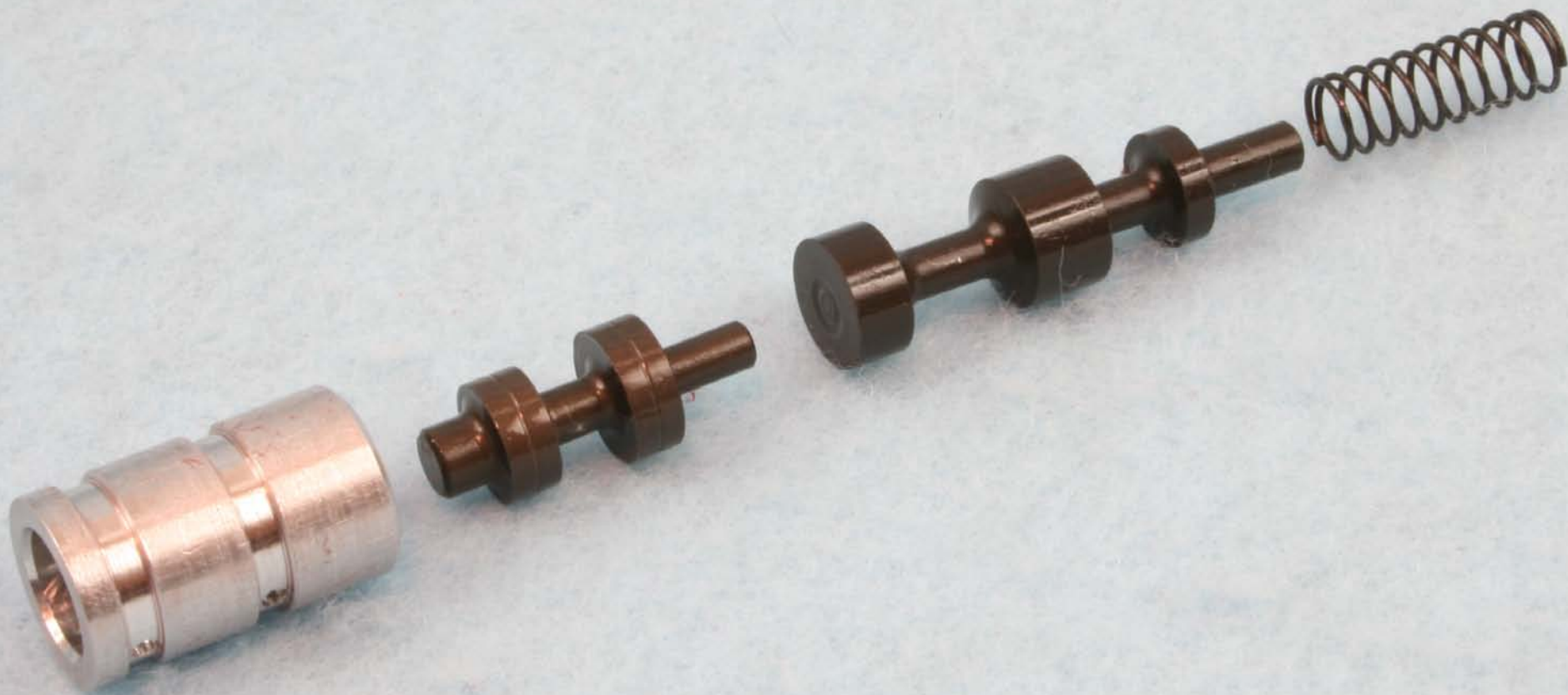
EXHAUST

SOLENOID FEED



The Torque Converter Clutch may be partially applied when EV4 is partially restricted

CONVERTER CLUTCH APPLY VALVE







AUTOMATIC TRANSMISSION SERVICE GROUP

WWW.ATSG.BIZ

***VW/AUDI 01M/01N/01P
EXTREMELY INTERMITTENT
P0740/01192
RE-10***

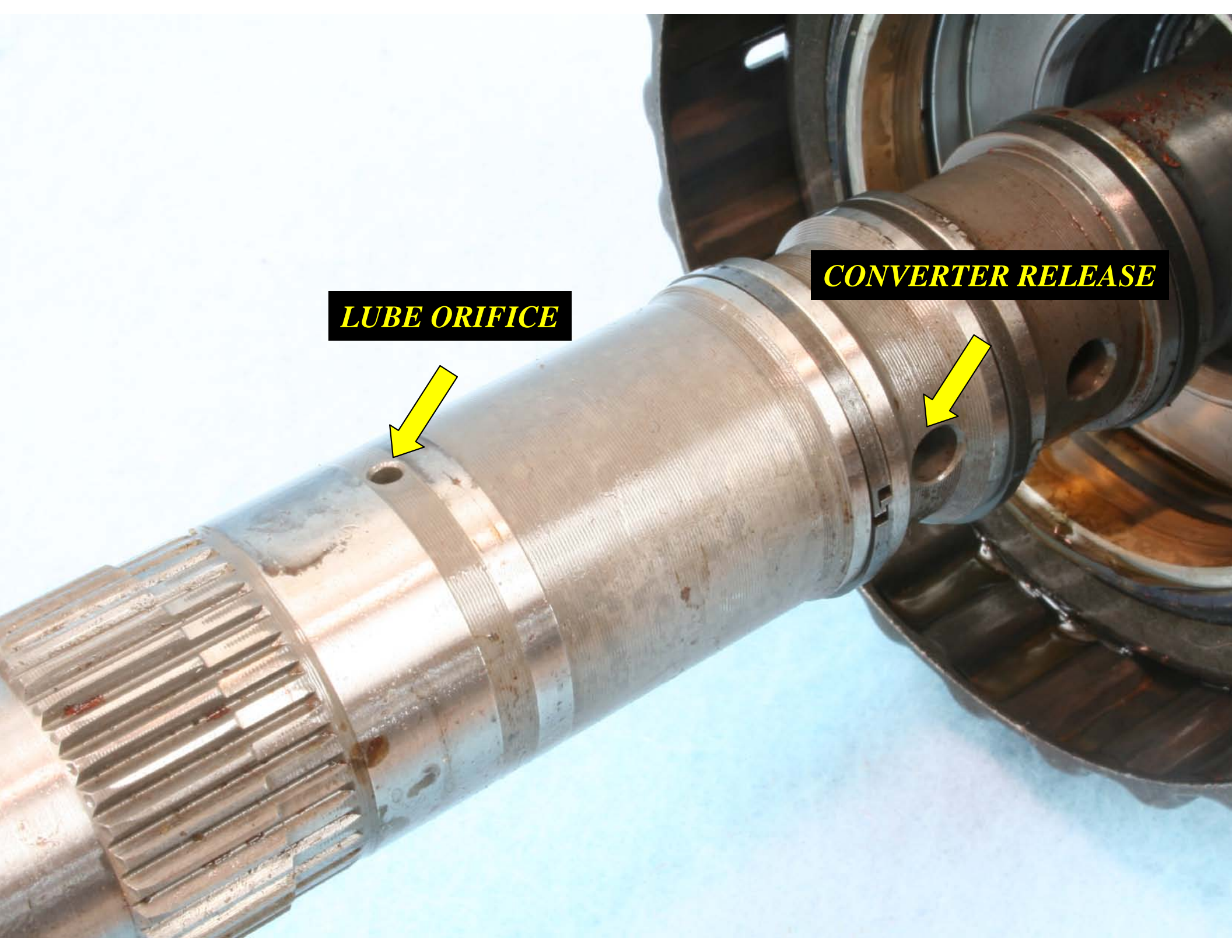
CONVERTER RELEASE



LUBE ORIFICE

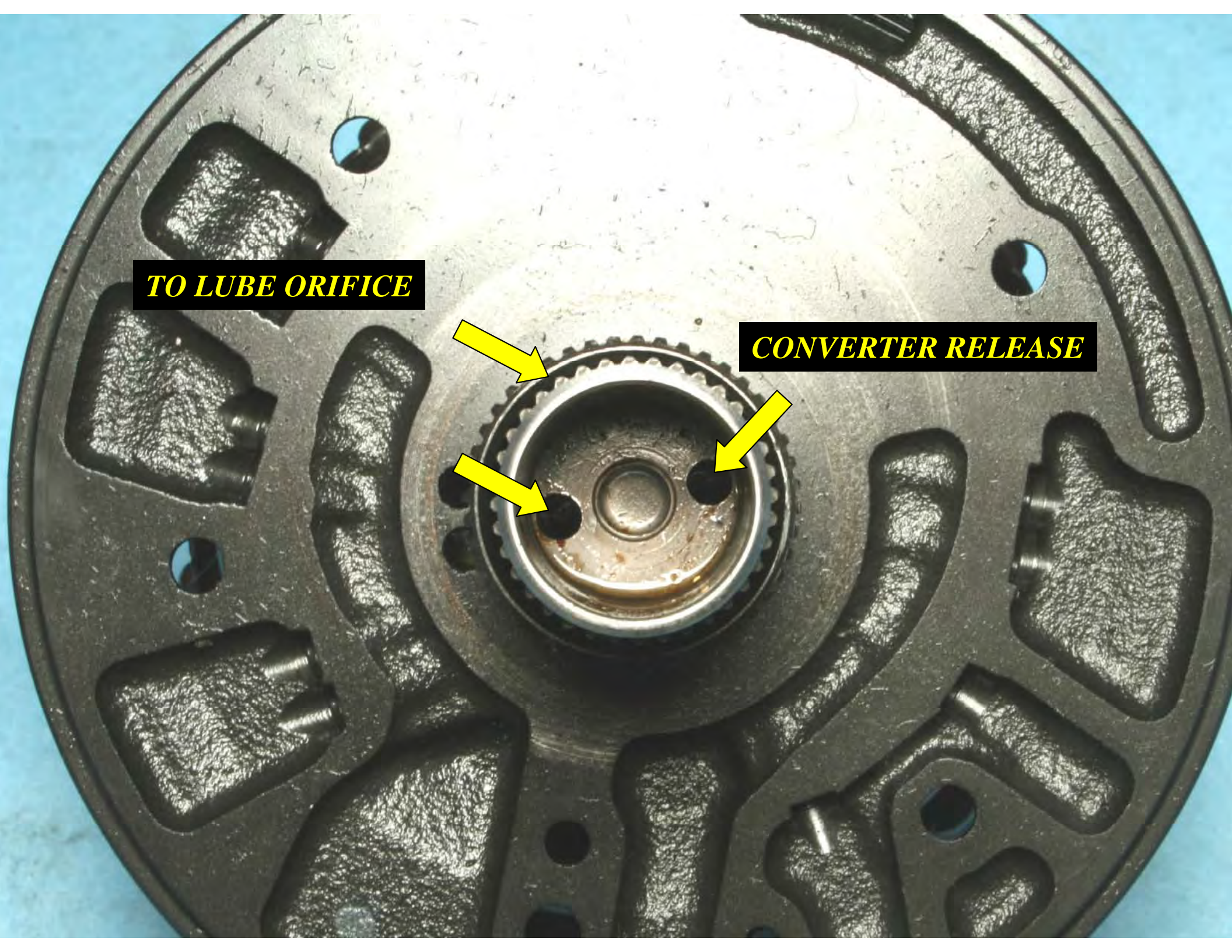


CONVERTER RELEASE

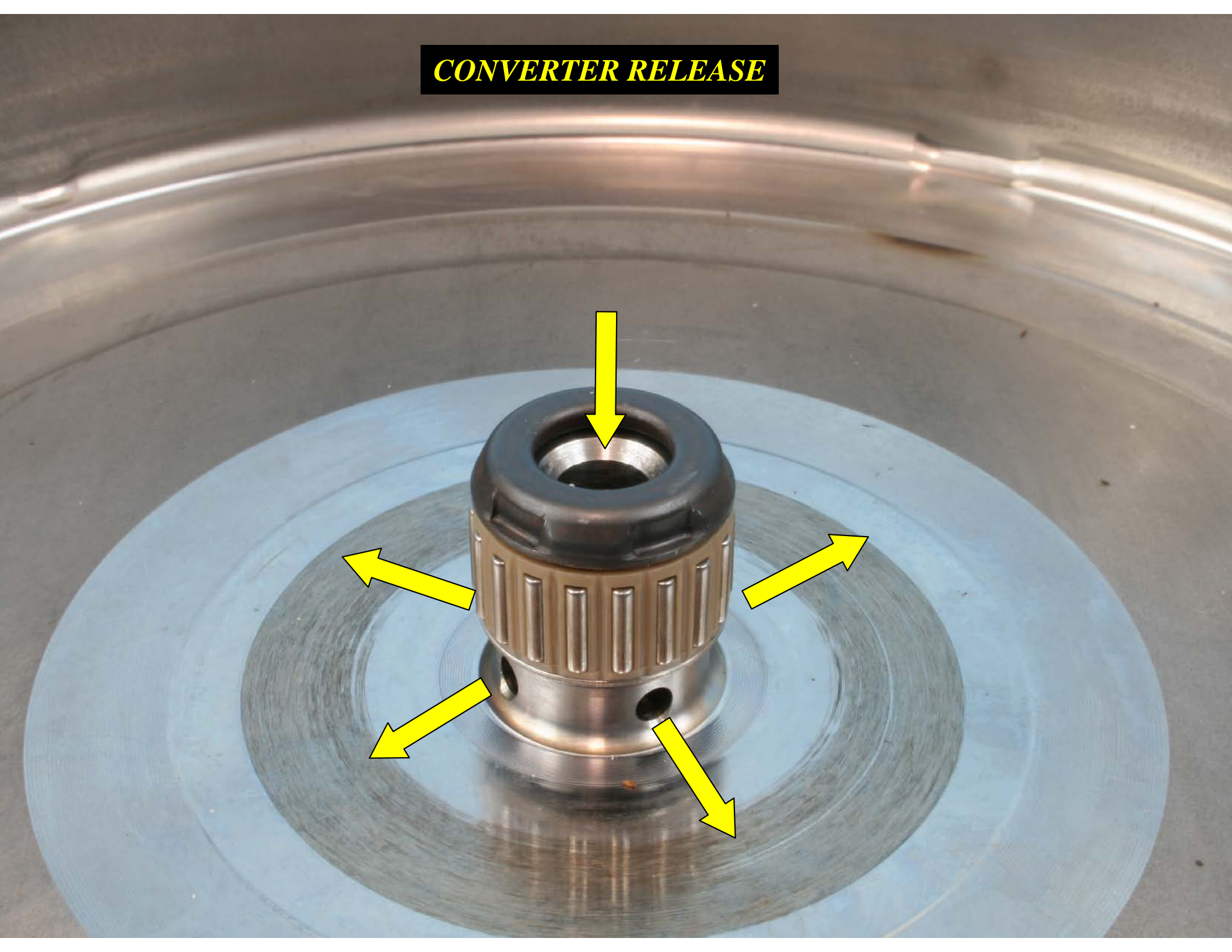


TO LUBE ORIFICE

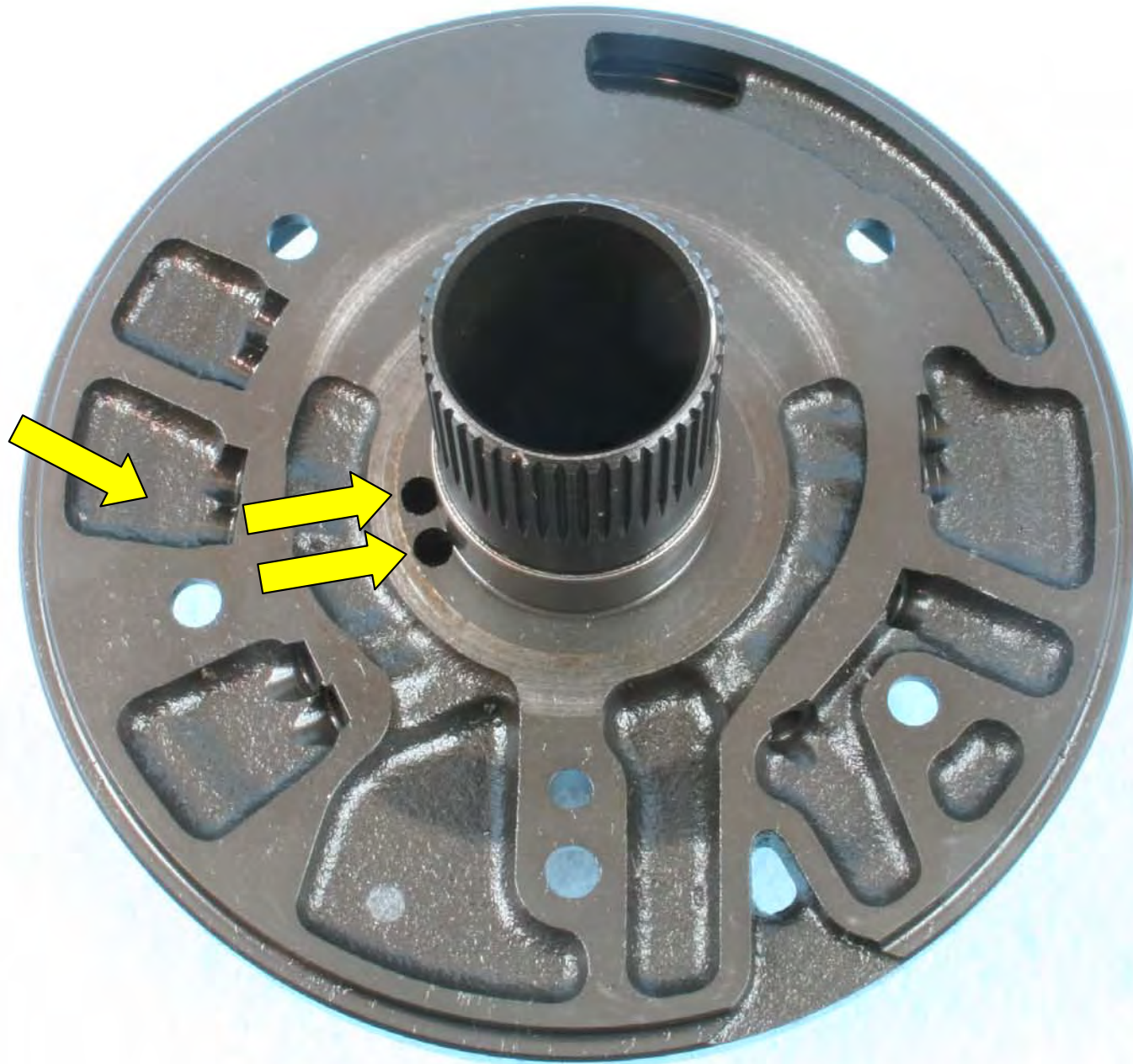
CONVERTER RELEASE

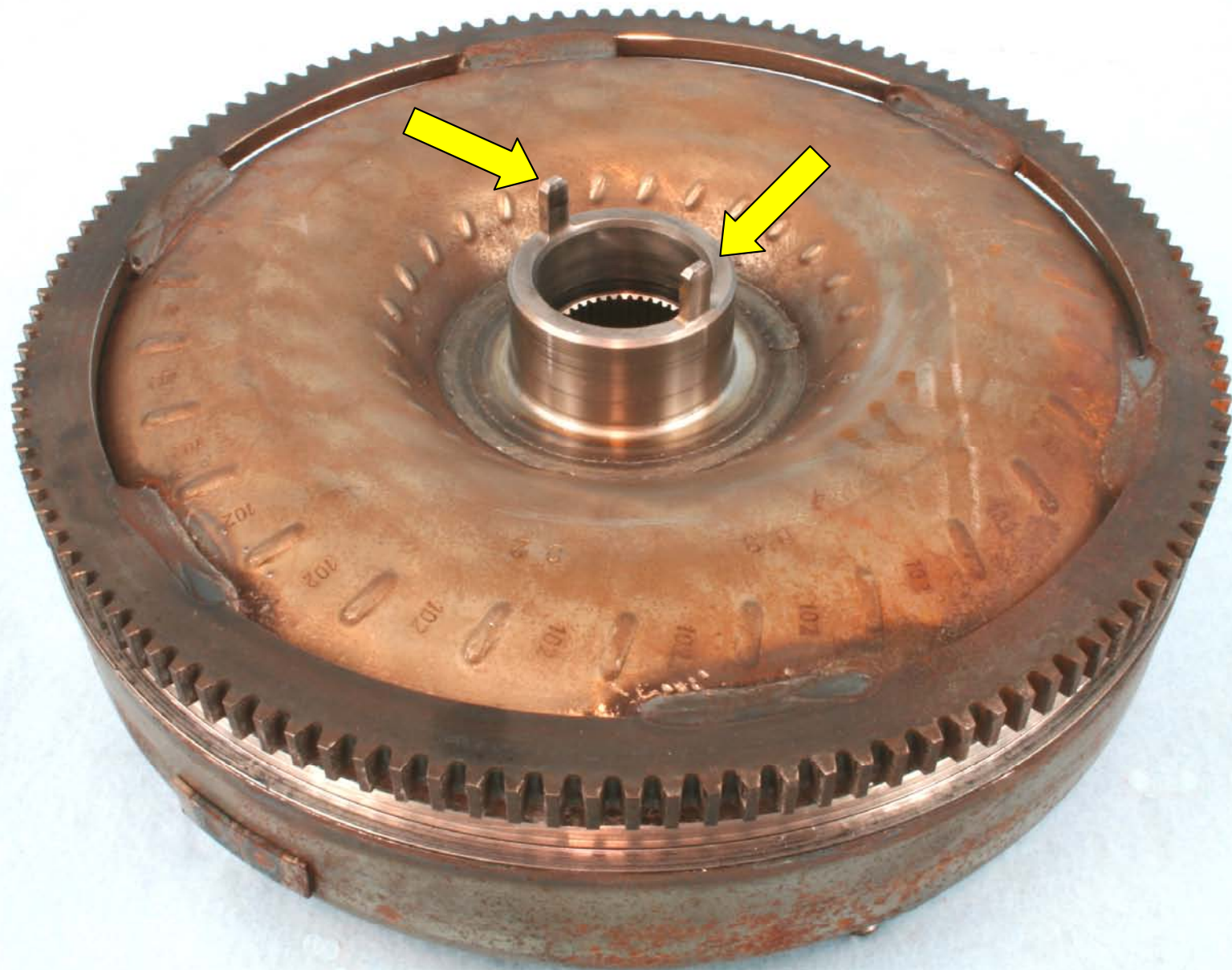


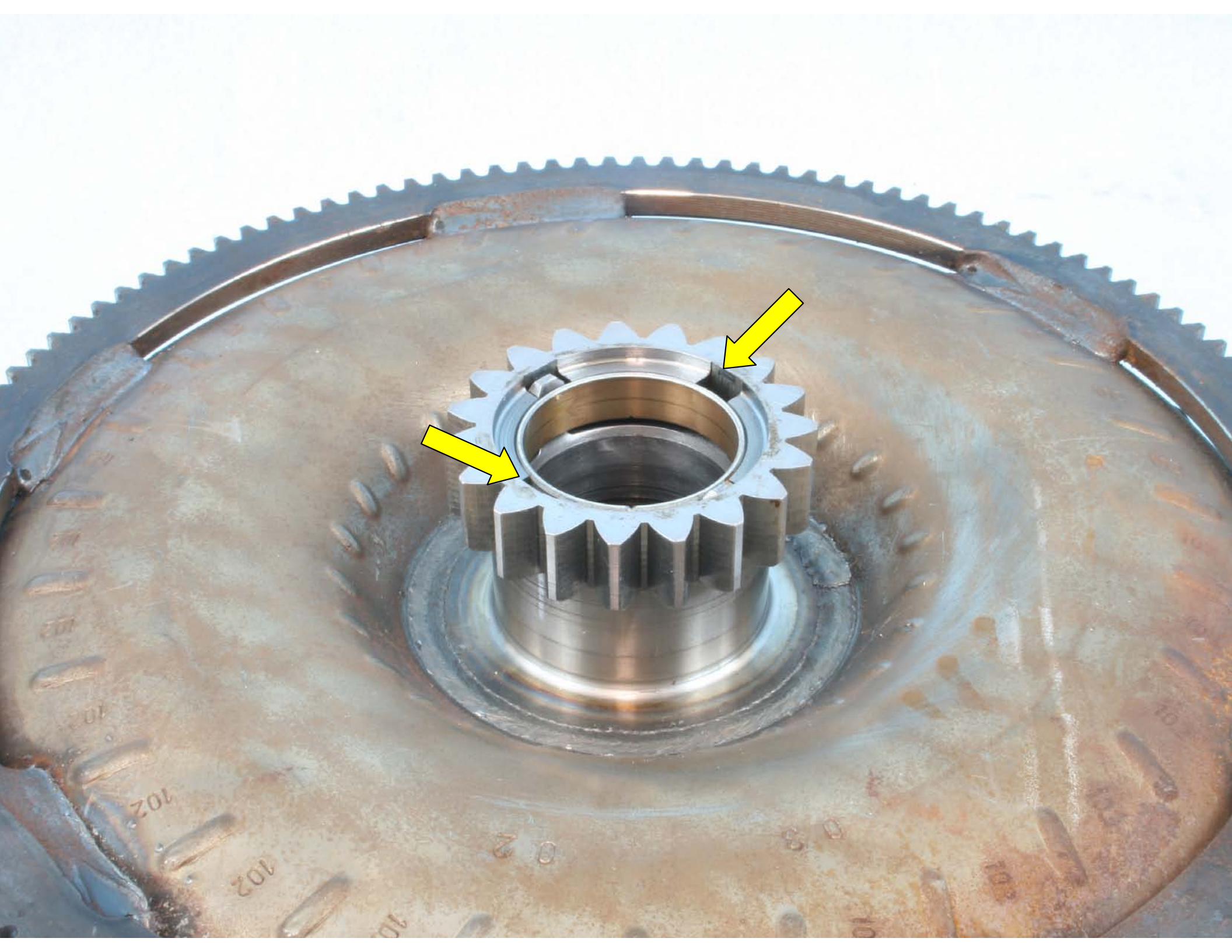
CONVERTER RELEASE

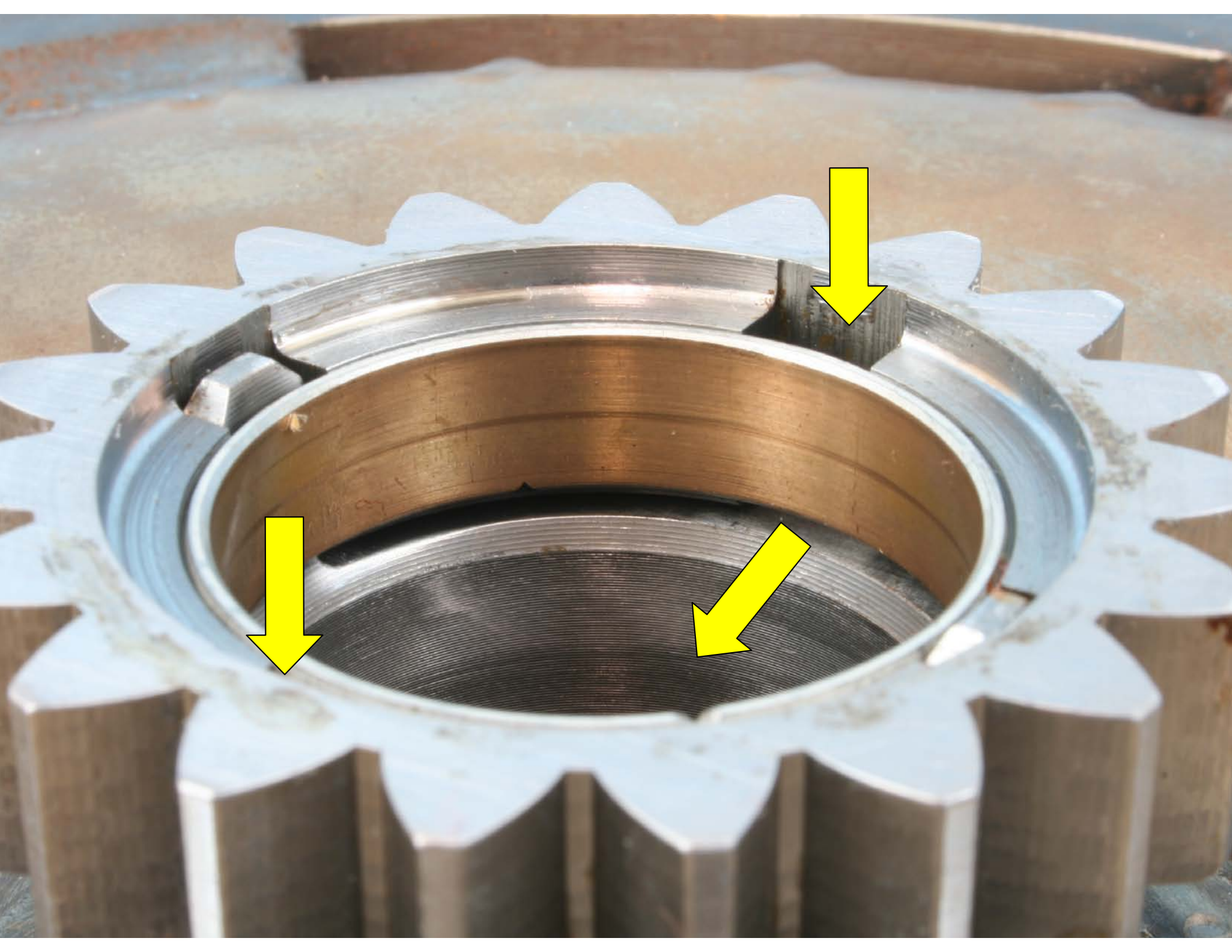


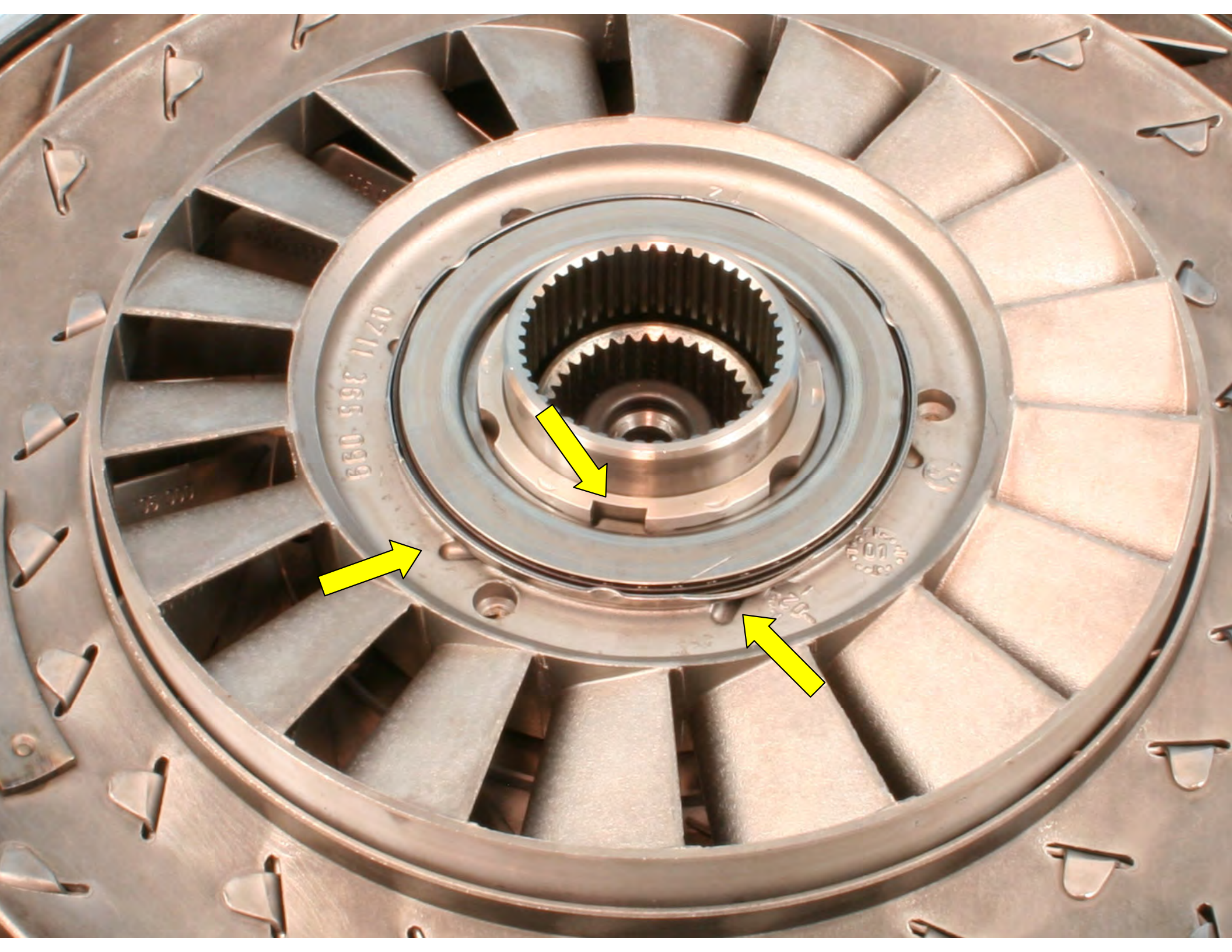
CONVERTER CLUTCH APPLY CIRCUIT

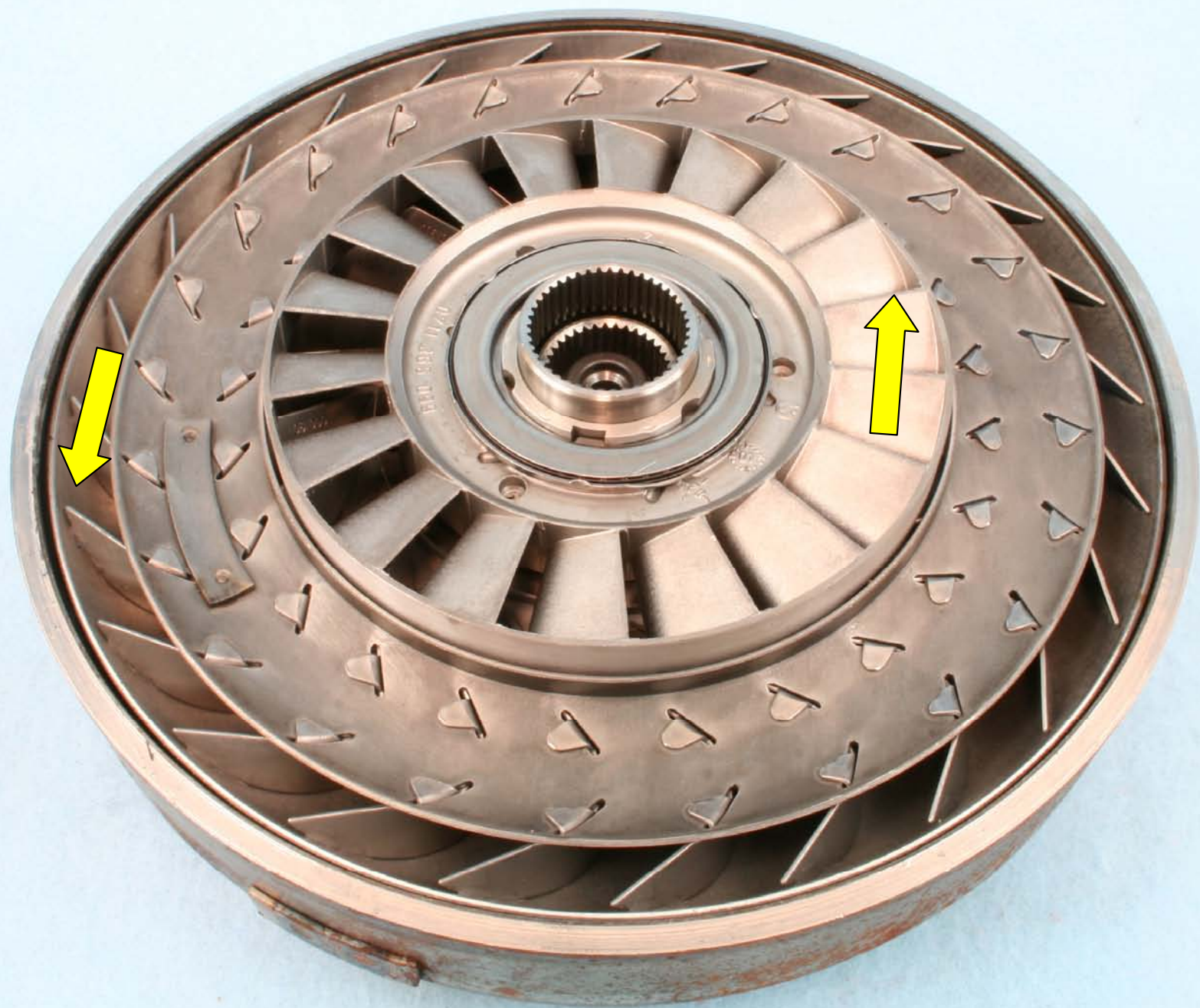


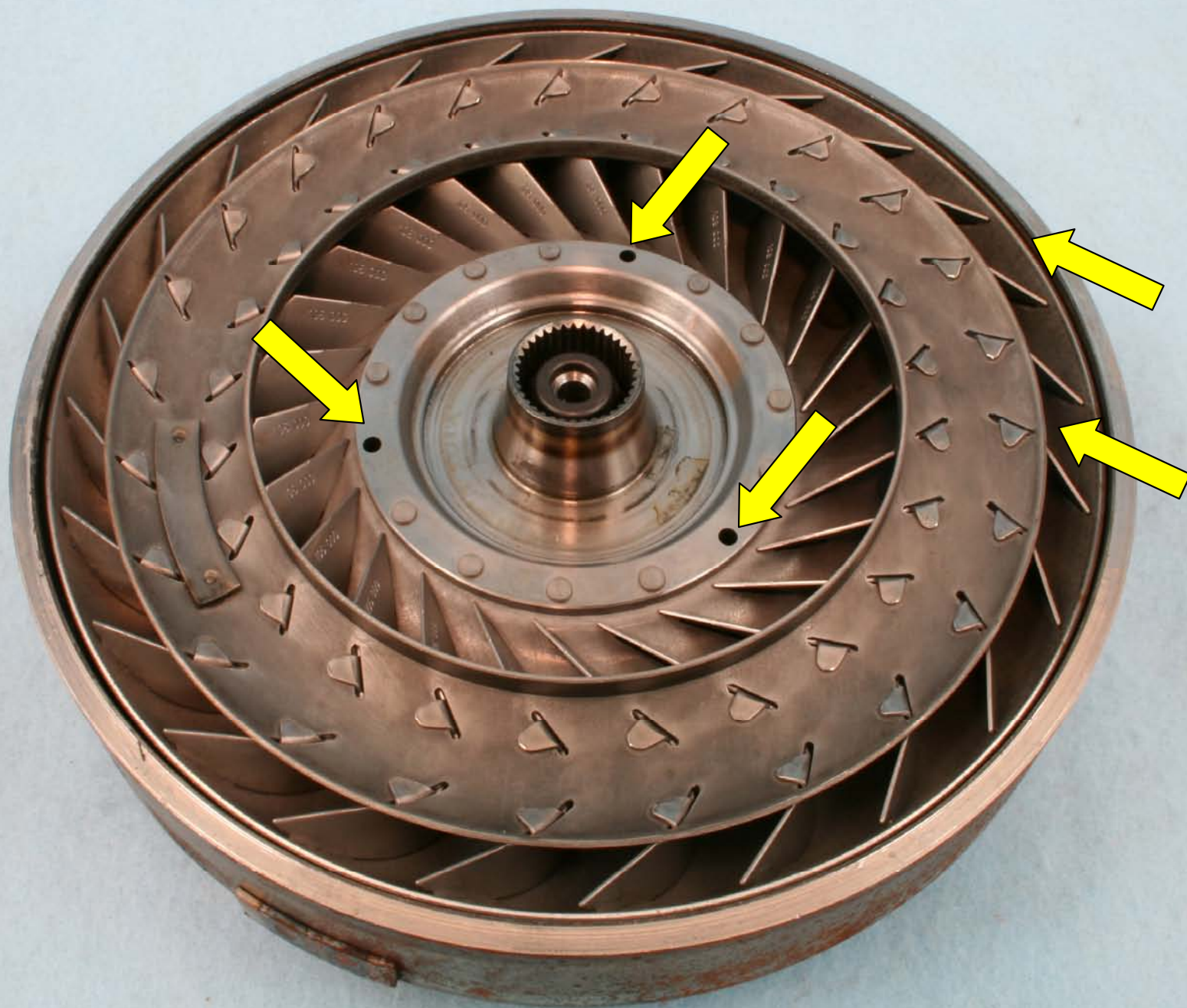


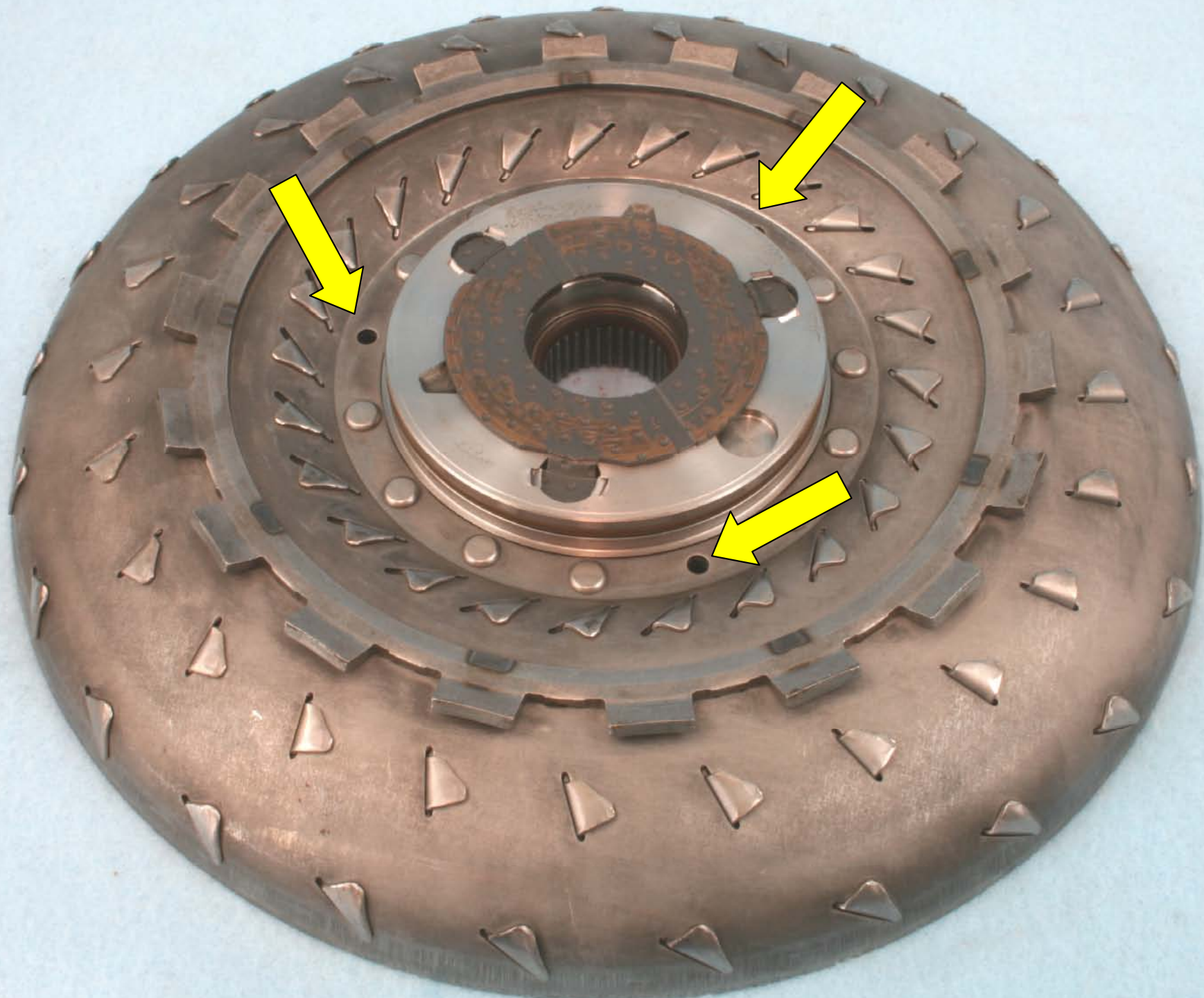


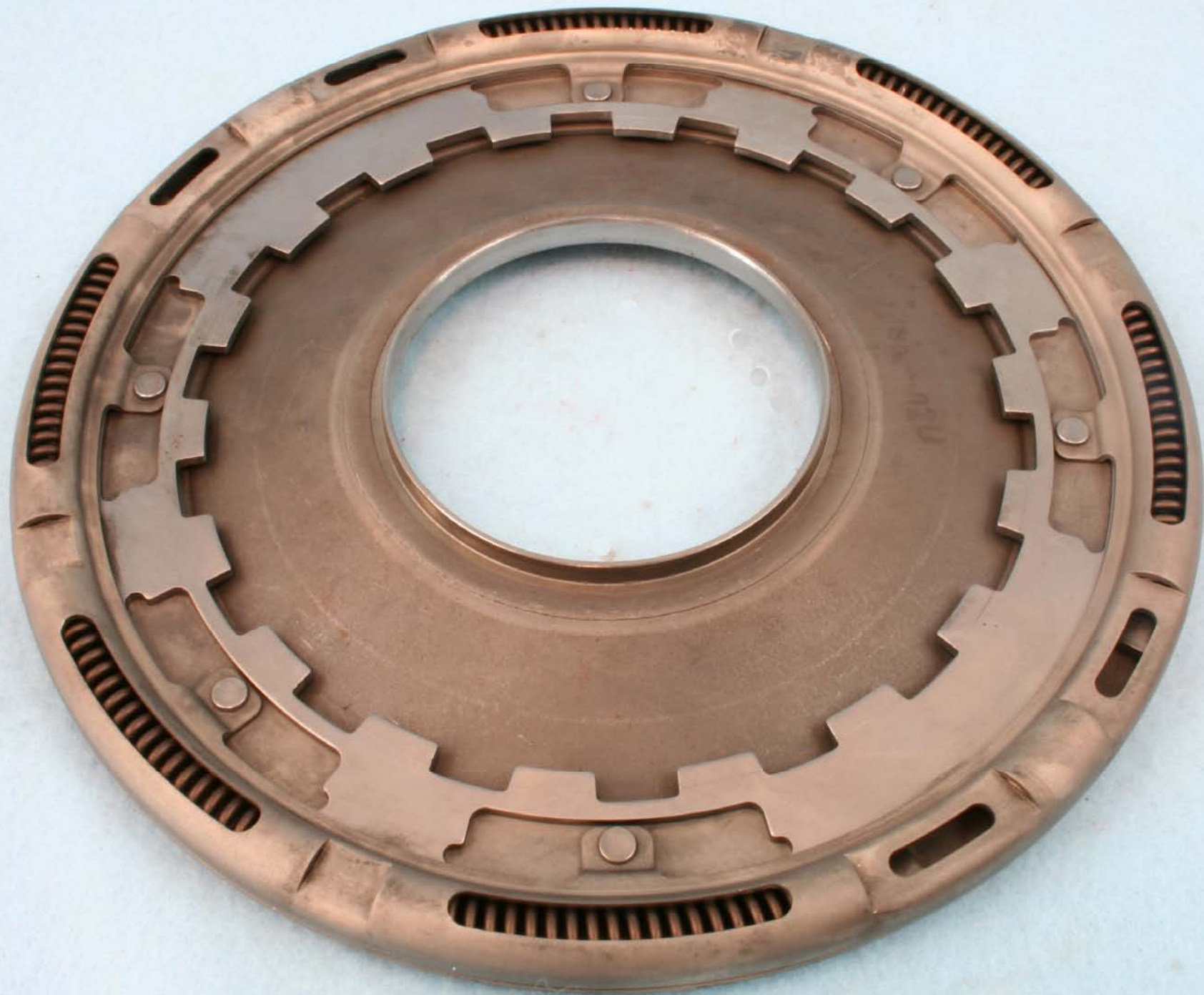


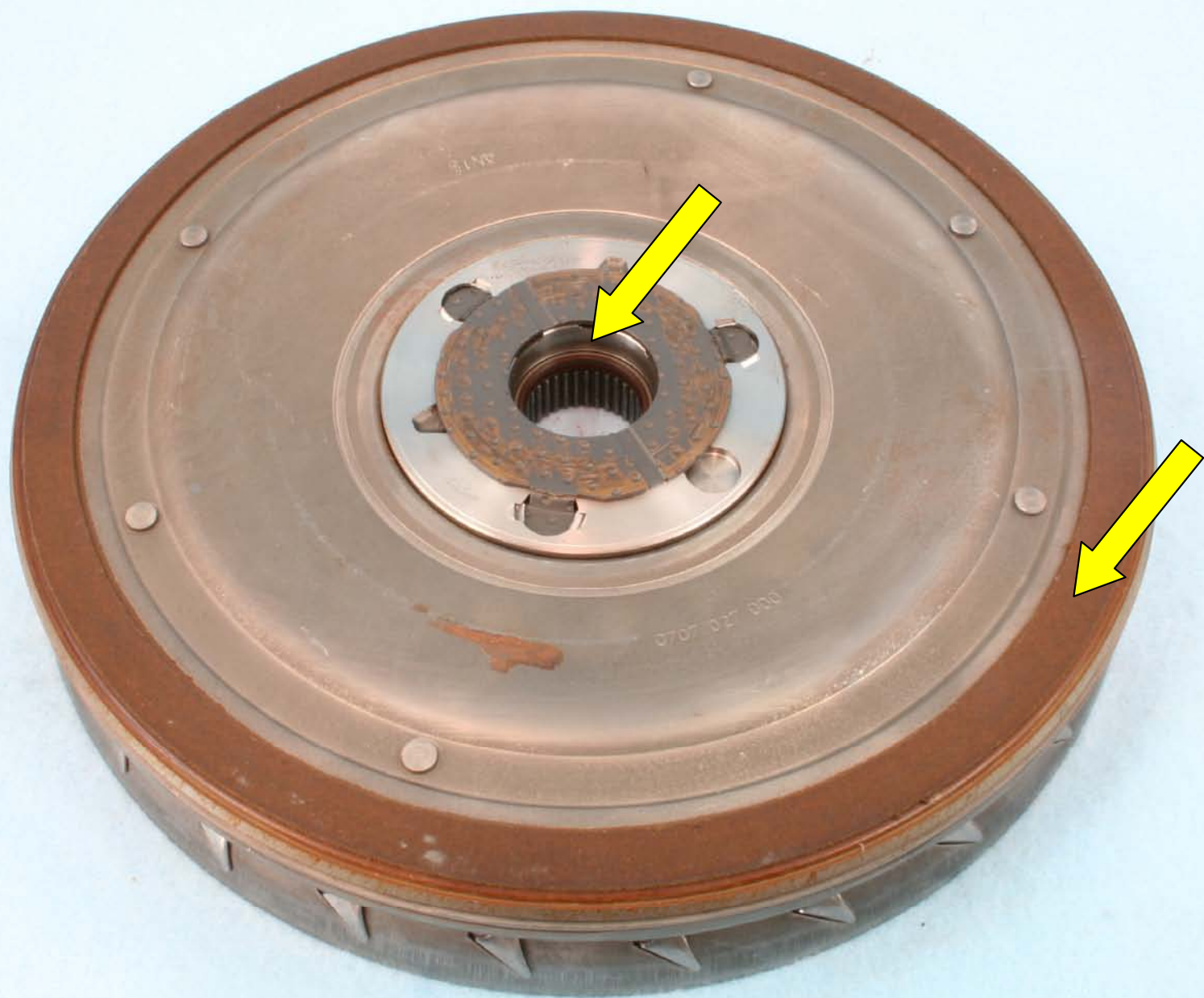












CONVERTER APPLY



2 TYPES EARLY NO BEARING

STATOR SIDE

CONVERTER SIDE

