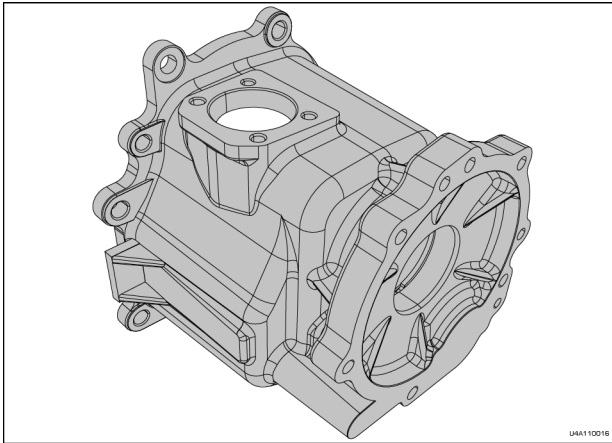
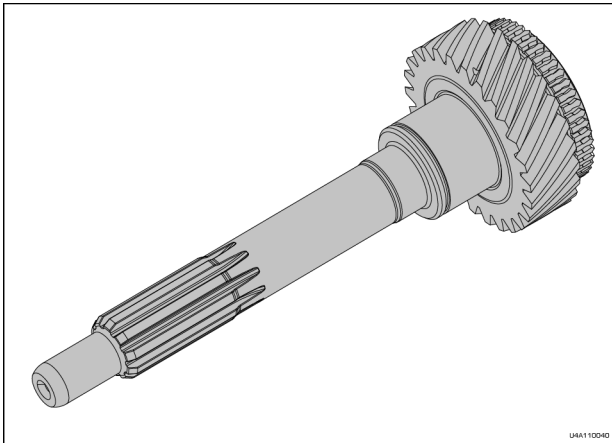


### 8.1.8 Rear Housing



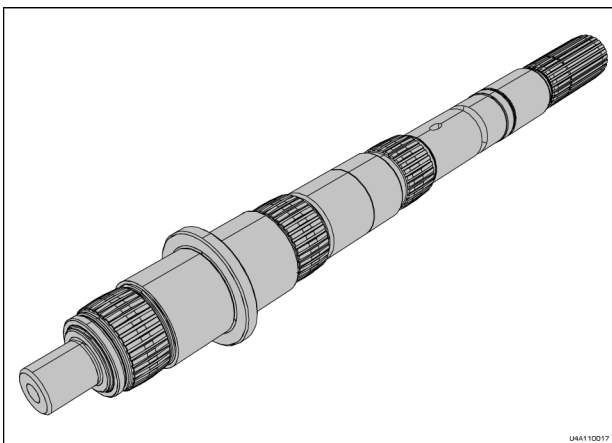
Rear housing is used to protect rear parts of transmission components from external environment. It is used to hold the shift lever assembly & Pivot adaptor.

### 8.1.9 Input Shaft



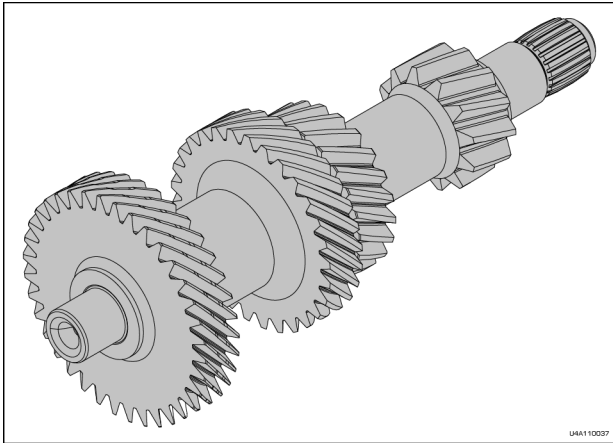
Input shaft is used to get power input from engine through clutch disc. Input shaft splined area is connected to clutch disc. It has primary reduction gear in the other side which is connected to counter shaft 4<sup>th</sup> gear.

### 8.1.10 Output Shaft



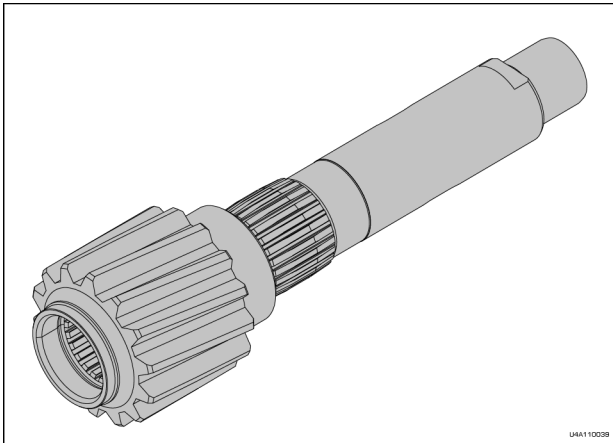
Output shaft is used to give power output from transmission. The end part of splined area is connected to transfer case.

### 8.1.11 Counter shaft



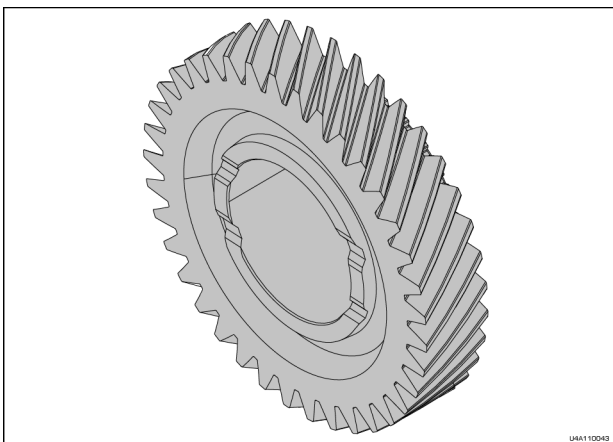
Counter shaft consist of various drive gears. 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> is integral with shaft & 5<sup>th</sup> and Reverse drive gear is splined. Counter shaft front end gear (4<sup>th</sup> gear) is connected to input shaft gear. It is called as primary gear pairs.

### 8.1.12 Drive Gear With Shaft



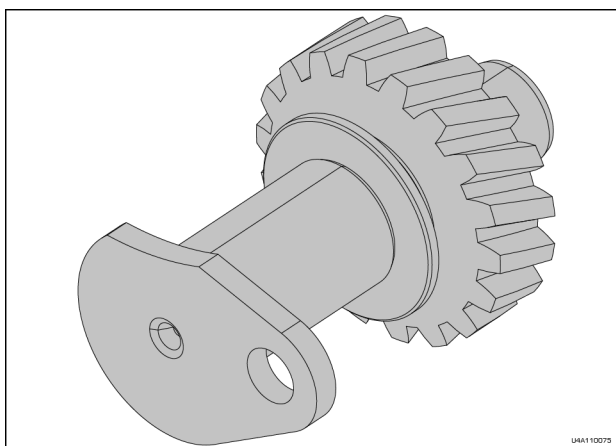
Drive gear are fixed gears. Which is usually splined or integral with shaft. It is used to provide speed reduction and varying the torque.

### 8.1.13 Driven Gear



Driven gear are freely rotating gears in the output shaft. Needle bearing is positioned between gears & shaft. Gear and shaft speed will be different. Synchro assembly will match the speed of the particular gear and shaft when that gear is engaged.

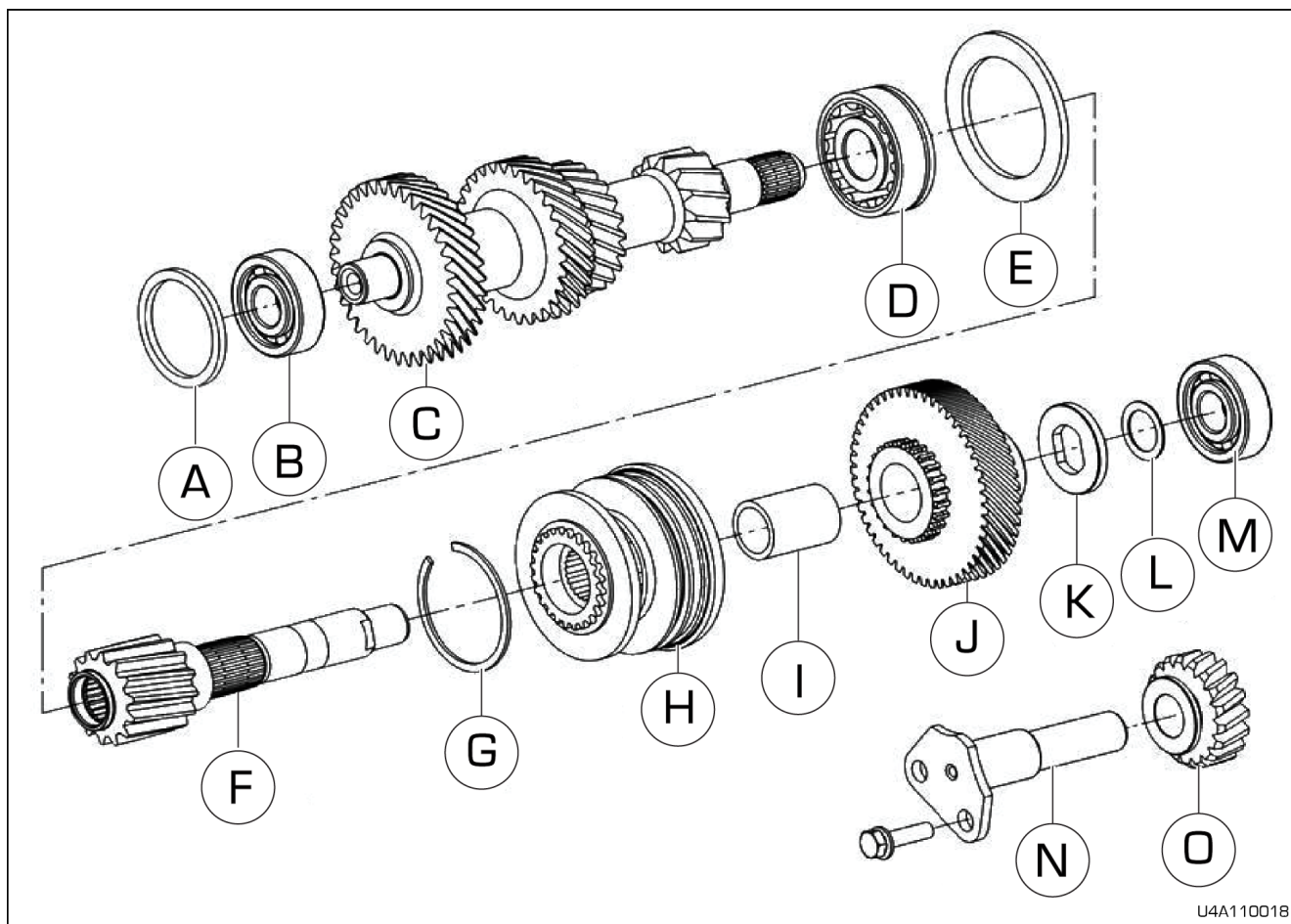
## 8.1.14 Reverse Idler



Reverse idler gear is positioned between reverse drive & driven gear. It is used to reverse the rotation of the driven gear this will make output shaft to rotate in reverse.

## 8.2 Component Location Index

### 8.2.1 Transmission View 1 (Counter Shaft Components)



**A.** Spacer counter shaft front bearing

**B.** Counter shaft front bearing

**C.** Counter shaft

**D.** Counter shaft rear bearing

**E.** Bearing retainer plate

**F.** Sub shaft 5th rev gear

**G.** Circlip

**H.** Synchro pack 5th rev strut type

**I.** NRB 5th drive gear plastic cage

**J.** Assembly 5th drive gear strut type

**K.** Adjusting washer 5th driving gear

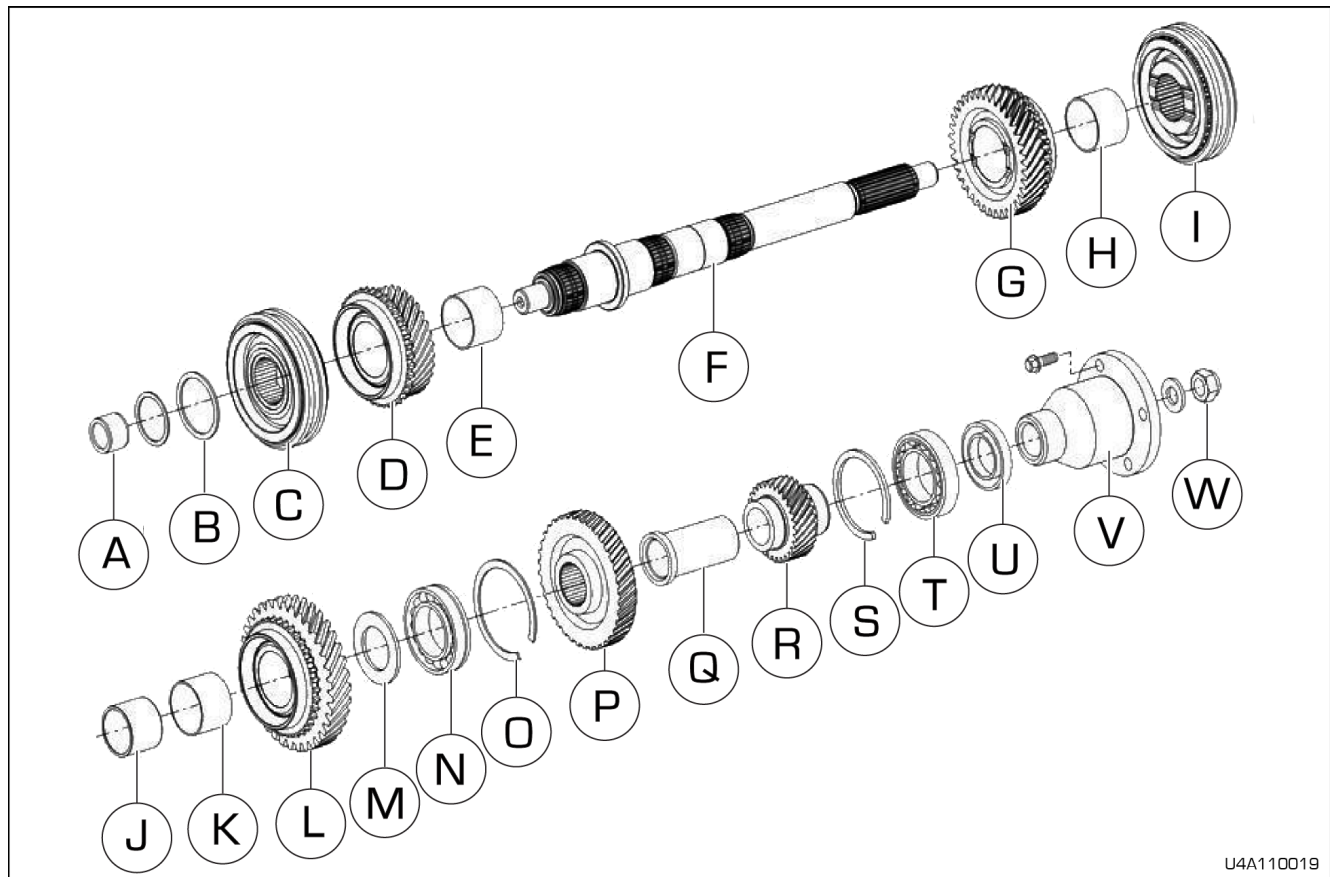
**L.** Adjusting shim sub shaft

**M.** DGB Bearing

**N.** Idler gear shaft for NGT 520

**O.** Rev sliding gear assembly NGT 520

## 8.2.2 Transmission View 2 (Output Shaft Components)



U4A110019

**A.** Main shaft pilot bearing

**B.** Washer elastic

**C.** Synchro pack assembly 3rd 4th

**D.** 3rd gear assembly

**E.** Needle cage

**F.** Output shaft

**G.** 2nd gear assembly

**H.** Needle cage

**I.** Synchro pack assembly 1st 2nd

**J.** Needle cage

**K.** Bush 1st gear

**L.** 1st gear

**M.** Spacer 1st gear

**N.** MD gear bearing

**O.** Snap ring MD gear bearing

**P.** Reverse driven gear

**Q.** Sleeve output shaft

**R.** Driven 5th gear

**S.** Circlip

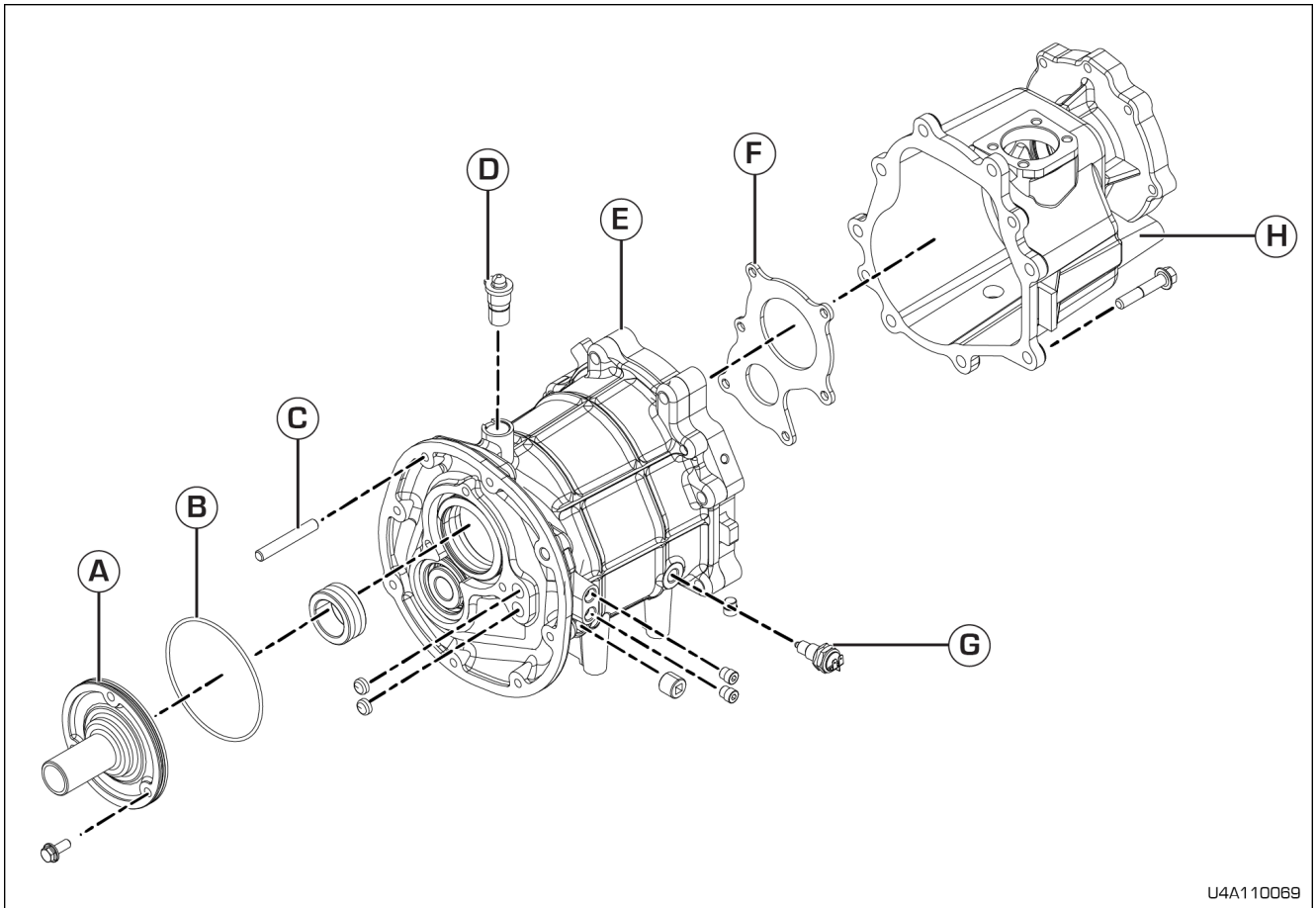
**T.** Bearing output shaft

**U.** Oil seal rear end

**V.** Companion flange

**W.** Flanged lock nut

### 8.2.3 Transmission View 3 (Casing Components)



A. Clutch release bearing sleeve

B. Snap ring

C. Dowel pin

D. Breather

E. Front housing

F. Bearing retainer plate

G. Reverse lamp switch

H. Rear housing