



All types

Type S/Section

XXX X

21

21 MODIFICATIONS TO THE JB/JC GEARBOX MANUAL

- Engine : XXX
 - Gearbox : XXX
- Basic manual : JB/JC gearbox manual

Please affix a photocopy of the following pages in place of pages 21-49 and 21-61 in the JB/JC manual.

"The repair methods given by the manufacturer in this document are based on the technical specifications current when it was prepared.

The methods may be modified as a result of changes by the manufacturer in the production of the various component units and accessories from which his vehicles are constructed".

All copyrights reserved by Renault.

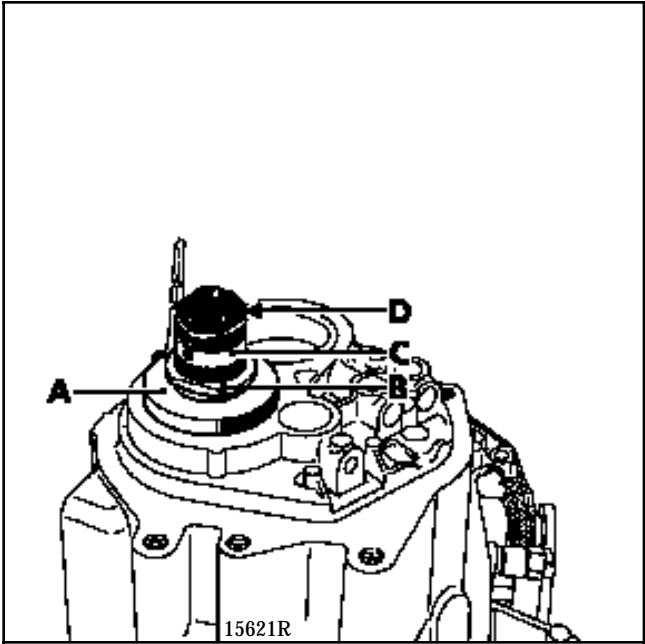
Copying or translating, in part or in full, of this document or use of the service part reference numbering system is forbidden without the prior written authority of RENAULT.

INPUT SHAFT (continued)

NOTE: This operation is only carried out if the bearings are replaced.

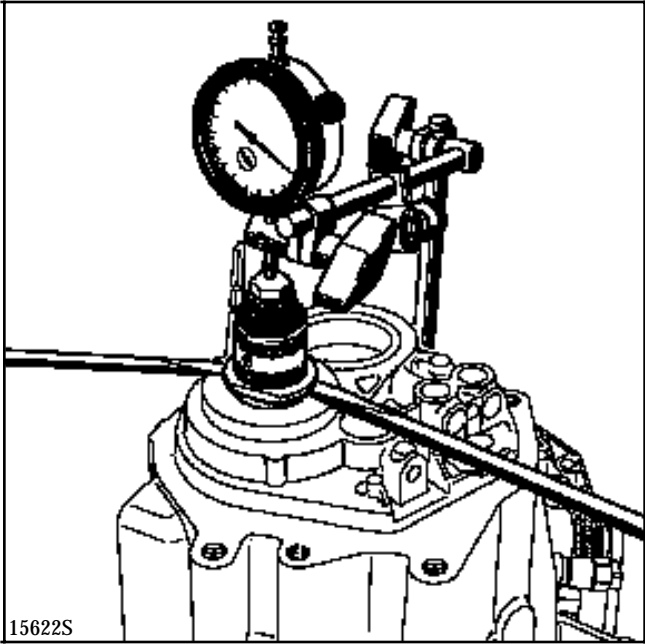
Adjusting the play of the input shaft bearings:

- Clutch housing without differential and without output shaft.
- Fit the input shaft with the bearings and the 0.62 mm pre-setting washer **B. Vi. 1161** (small external diameter).
- Fit the mechanism housing, **position the gearbox bolts and tighten them to the specified torque.**
- Fit the dial gauge support plate **B. Vi. 1161** on the driveshaft gaiter retaining position.



- Fit:
 - Spacer **B. Vi. 1161** (A),
 - Thrust washer (B),
 - Pinion ring (C),
 - The nut screwed in as far as possible (D),
 - The gauge with its magnetic base.

- A) Turn the input shaft by several revolutions to settle the bearings.
- B) Set the dial gauge to zero.
- C) Pull the input shaft upwards, applying a lever-type action using two screwdrivers.
- D) Read the value on the dial gauge.



Repeat the operations several times (A to D).

Take the average of the values read.

Calculating the value of the setting washer

Presetting washer value + average of the values read on the dial gauge - 0.02 (value to be subtracted to ensure minimum play) = value of the setting washer.

Example : (values in mm)

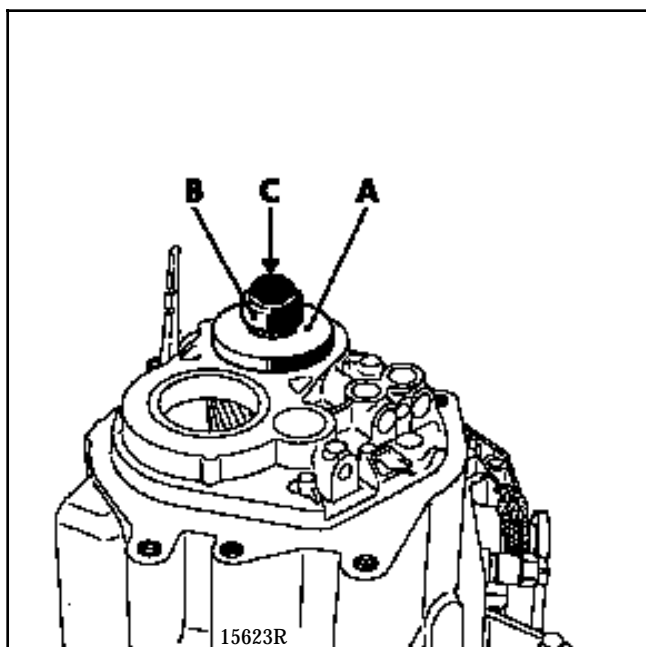
0.62	+	0.50	-	0.02	=	1.10
↓		↓		↓		↓
Pre-setting value		Average of values read		Value of specified min. play		Value of setting washer

Note :
A set of washers of thickness **0.86 mm** to **1.30 mm** rising in stages of **0.04 mm** are supplied as a replacement part.

Adjusting the pre-load of the output shaft bearings

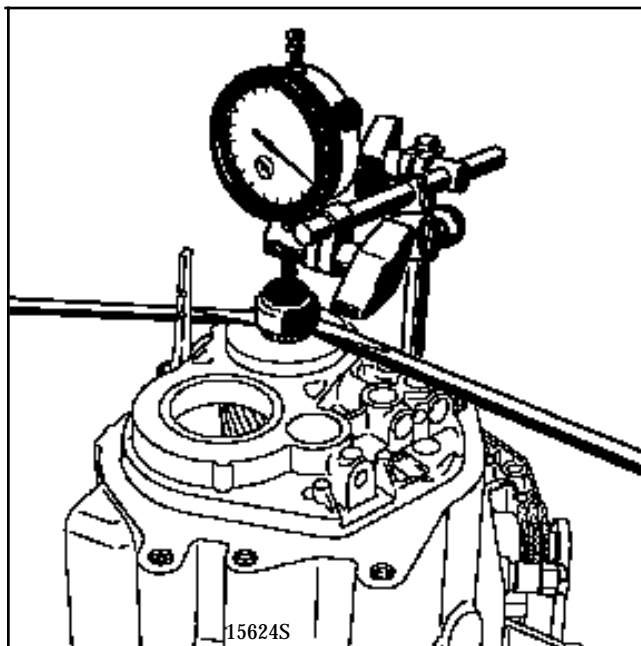
NOTE : This operation is only carried out if the bearings are replaced.

- Clutch housing without the differential and without the input shaft.
- Position the output shaft in the clutch housing with the bearings and the **1.60 mm** pre-setting washer **B. Vi. 1161** or equivalent (large external diameter).
- Fit the mechanism housing.
- Fit the gearbox bolts and tighten them to the specified torque.
- Fit dial gauge support plate **B. Vi. 1161** or equivalent on the the driveshaft gaiter retaining position.



- Fit:
 - The special spacer for **B. Vi. 1161** (A),
 - The cover (B),
 - The cover bolt screwed in as far as possible (C),
 - The dial gauge with its magnetic base

- Turn the output shaft by several revolutions to settle the bearings.
- Set the dial gauge to zero.
- Pull the output shaft upwards, applying a lever-type action using two screwdrivers.
- Read the value on the dial gauge.



Repeat the operations several times (A to D).

Take the average of the values read.

Calculating the value of the pre-load setting washer

Specified value + pre-setting washer value + average of values read on the dial gauge = value of the pre-load setting washer.

Example : (Values in mm)

0.26	+	0.49	+	1.60	=	2.35
↓		↓		↓		↓
Specified value		Average of values read		Pre-setting washer value		Pre-load setting washer value

Note:

A set of setting washers of thickness **2.15 mm** to **2.43 mm** rising in steps of **0.04 mm** is supplied as a replacement part.