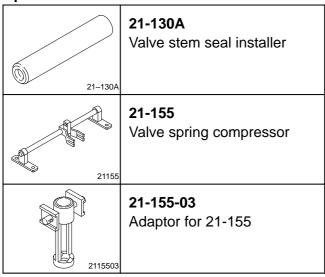
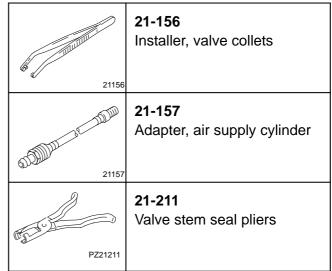
## Seals – Valve Stem – Renew (all) (21 238 0) Special Tools





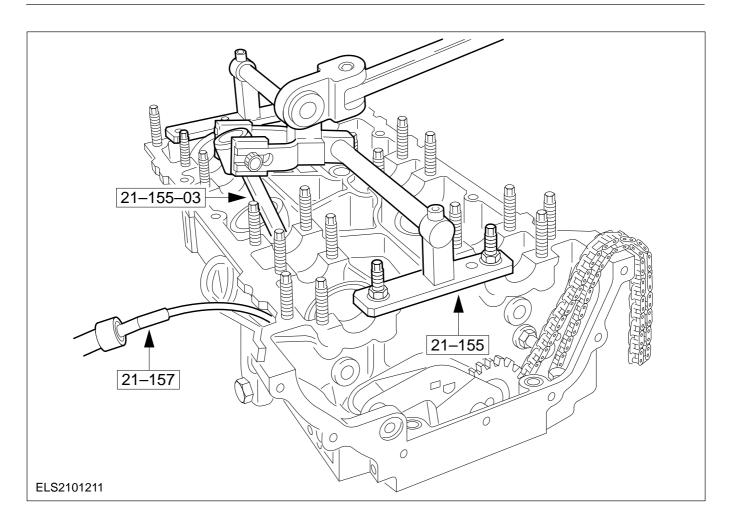
## Remove

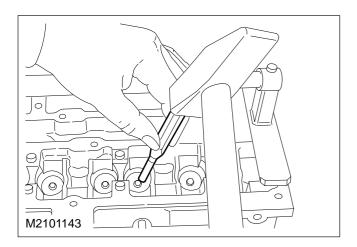
## 1. Standard preparatory operations

- Make a note of the radio keycode.
- Make a note of the preset radio stations.
- Detach the battery cover.

**CAUTION:** Disconnect the battery earth lead.

- 2. Remove the camshafts as described in Op.no. 21 284 0.
- 3. Remove hydraulic tappets and place to one side in order.

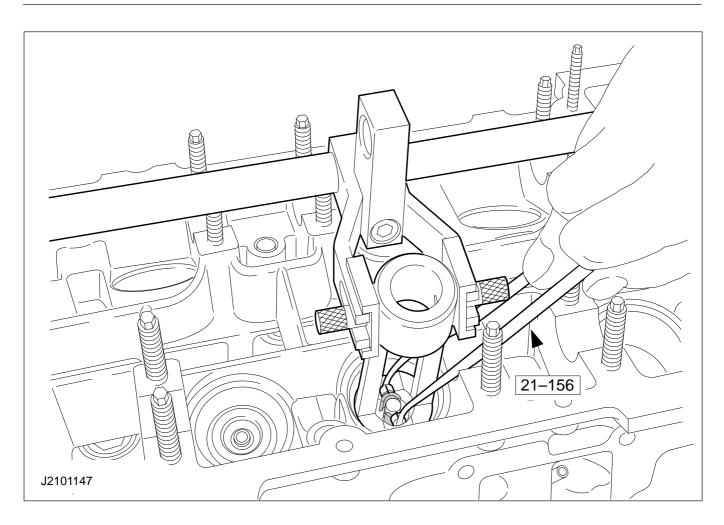




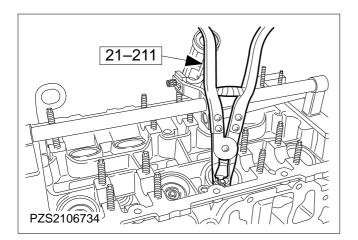
- 4. Fit the special tools.
- 5. Apply compressed air (7-10 bar) to the cylinders.

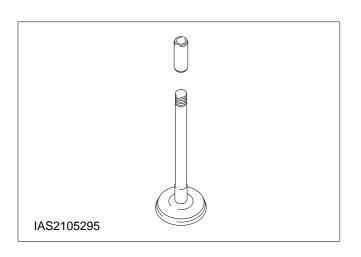
**CAUTION:** Use a brass drift to release the valve spring retainers.

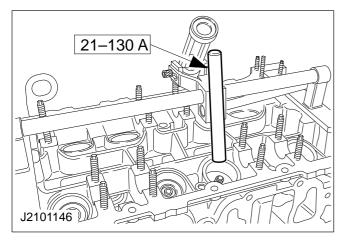
6. Lightly tap the valve spring retainer to release it.

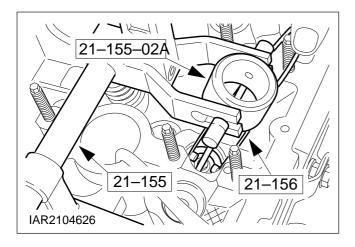


- 7. Remove the valve springs together with the valve spring retainers and the valve collets.
- **CAUTION:** Do not damage the valve stem when pushing down the valve spring retainer.
- Compress the valve spring.
- Remove the valve collets with the special tool.
- Release the valve spring and remove it together with the valve spring retainer.
- 8. Remove the valve stem oil seals.









## Install

9. Push protective sleeves onto the valve stems.

Lubricate the valve stems with Hypoid oil.

- 10. Install new valve stem oil seals.
  - Lubricate the valve stem oil seals with Hypoid oil and install them.
- Remove the protective sleeves from the valve stems.

- 11. Fit the valve spring and the valve collets.
  - Insert the valve spring and the valve collets.
- Compress the valve spring.

**NOTE:** Correct seating of the valve collets.

- Insert the valve collets.
- Release the valve spring.
- 12. Repeat the steps for all valve stem oil seals.
- 13. Remove the valve spring compressor and the adapter.
- 14. Disconnect the compressed air supply.
- 15. Fit the hydraulic tappets.
- 16. Fit the camshafts as described in Op.no. 21 283 0.