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

| D 21-130A | 21-130A Valve stem seal installer |
|-----------|---|
| 21155 | 21-155 Valve spring compressor |
| 2115502 | 21-155-02A Adaptor for 21-155 |
| 21156 | 21-156 Installer, valve collets |



Materials

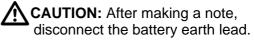
| Valve stem installer sleeve | |
|-----------------------------|------------------------------------|
| Hypoid oil | SQM-2C9002-AA |
| Engine oil | Refer to General Specifications |

Proprietary Tools

Brass drift

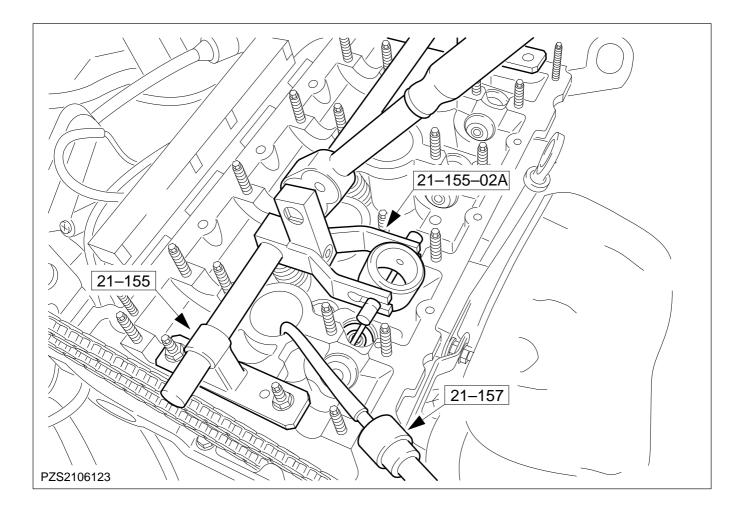
Remove

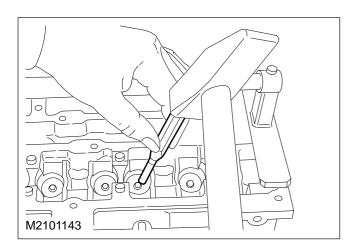
- 1. Standard preparatory measures:
- Make a note of the radio keycode.
- Remove the battery cover.



Make a note of the preset radio stations.

2. Remove the camshafts as described in operation 21 284 0.

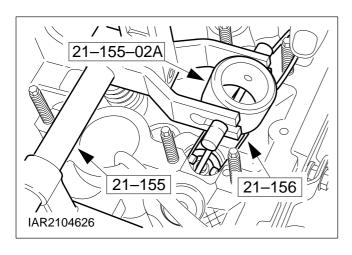


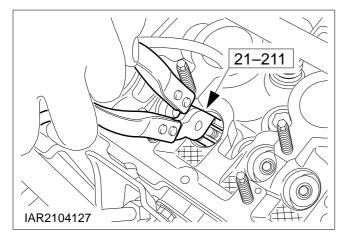


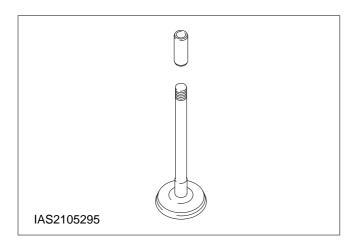
- 3. Fit the valve spring tensioner and the adaptor.
- 4. Pressurise the cylinder with compressed air (7-10 bar).



5. Loosen the valve collets with a light tap on the valve spring retainers.







21–130A 21–130A IAR2104627 **CAUTION:** Do not damage the valve stem when the valve spring retainer is pushed down.

6. Remove the valve springs.

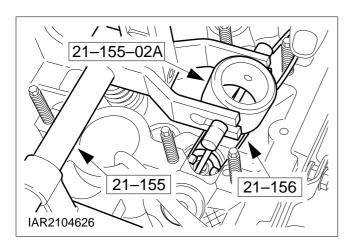
- Compress the valve springs.
- Remove the valve collets using the remover/installer.
- Release the valve springs and remove them with the valve spring retainers.
- 7. Remove the oil seal.

Install

8. Cover the collet groove with the valve stem installer sleeve.

Lubricate the valve stem with hypoid oil.

- 9. Fit a new valve stem seal.
 - Lubricate the valve stem sleeve with hypoid oil.
 - Remove the valve stem installer sleeve.



10. Install the valve spring.

- Install the valve spring and valve spring retainer.
- Compress the valve spring.

NOTE: Ensure the valve collets are seated correctly.

- Insert the valve collets.
- Release the valve spring.
- 11. Seat the valve collets with a suitable drift.
- 12. Repeat sub-operations 4. to 11. for all the other oil seals.
- 13. Detach the valve spring compressor and the adaptor.
- 14. Remove the compressed air connector.
- 15. Install the camshafts as described in operation 21 283 0.