

Fitting Instructions

Hicas 4WS - Delete/Lock Bar

Application - S13 - 180SX, Sylvia & 240SX.
- R32 - Skyline GTR, GTS & GTS-4.
- Z32 - 300ZX.

(Always refer current catalogue listing)

Contents - 1 x HICAS disabling unit.
- Fabricated with internal thread.

The Nissan HICAS (High Capacity Actively Controlled Suspension) is Nissan's rear wheel steering system found on cars ranging from Skyline to 180SX. Disabling the HICAS unit with **WHITELINE** delete bracket has been proven to provide greater vehicle stability and more predictable handling at the limit, allowing faster lap times.



1. Raise rear of the vehicle, support on chassis safety stands, and remove wheels.
2. Clamp flexible hydraulic pipes (slightly forward of rear sway bar) to the HICAS unit to prevent oil leakage after hydraulic lines have been disconnected from the HICAS unit.
3. Remove 10 mm head bolts, securing steel hydraulic pipes to HICAS unit.
4. Disconnect steel hydraulic pipes from HICAS unit.
5. Remove clamps from flexible hydraulic hoses.
6. Remove inner tie-rod end dust-boots from HICAS unit allowing access to inner tie-rod ends. Remove the inner tie-rod ends from the HICAS unit.
It may be necessary to disconnect outer tie-rod ends from hub to aid the removal of the inner tie-rods from HICAS.
7. Remove HICAS rack unit from vehicle.
8. Bolt up the WHIELINE HICAS disabling unit to the location of the original HICAS unit using original bolts.

Note - WHITELINE recommends to apply thread locking compound to all threads.

9. Secure the inner tie-rod ends to the HICAS disabling unit as per RH image.. Tighten to manufacturers torque specifications.
10. Re-attach the outer tie-rod ends to the hub,
if disconnected during the removal procedure.
11. Re-fit dust boots & secure to HICAS disabling unit.

Refer page 2



Warning: Please drive carefully while you accustom yourself to the changed vehicle behaviour.

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Redundant P/S Lines



12. Proceed to remove the P/S lines from under the car.
13. Start at the rear - unbolt the 10mm bolts holding the clamps that are holding the pipes to the sub-frame. Refer RH image.



14. Work your way towards the front of car. Remove the solenoid unit near the rear swaybar. Refer LH image.

15. Continue towards front of car removing the clamps by un-bolting the 10 and 12mm bolts.

16. Next, the solenoid located on the RH front chassis rail needs to be removed. Un-bolt the 2 lines that head towards rear of car.

17. Disconnect the line from P/S cooler to the solenoid. Refer RH image.



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Remove Bracket

18. Remove the front under tray from vehicle.
19. Locate the pipe fitting where the pipe runs from the RH solenoid to pump (on LH side).
20. Loosen the pipe fitting and remove this bracket also. Refer RH image.

Disconnect Pipe



21. Using high pressure P/S hose, connect the line from the cooler to the line below - refer LH image.

22. Top up P/S fluid and bleed system.

23. Road test vehicle and re-check all bolts and hose clamps.

24. A wheel alignment is recommended soon after install.

← **Note new hose with hose clamp**

It is recommended that a licenced workshop or tradesperson carry out the above procedure and that workshop manual and relevant safety procedures are followed in addition to the above.