

NEW TAIR INDV

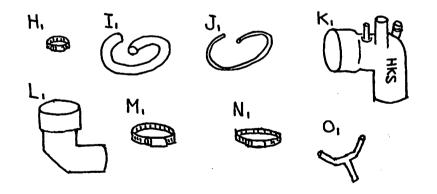
300ZX VG30ET
INSTALLATION MANUAL

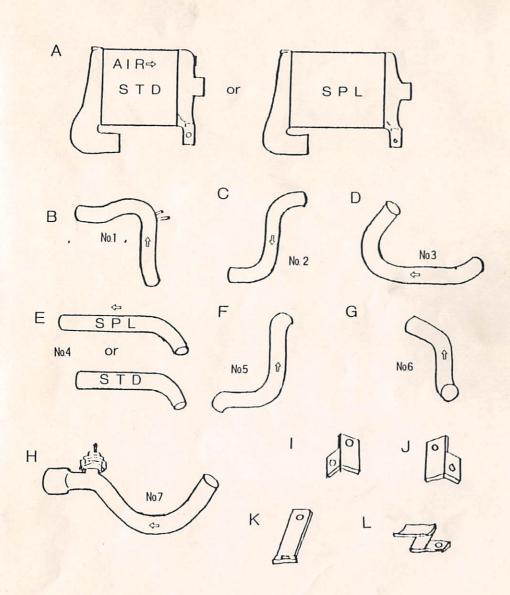
This HKS INTERCOOLER KIT has been developed for NISSAN VG30ET of 300ZX.

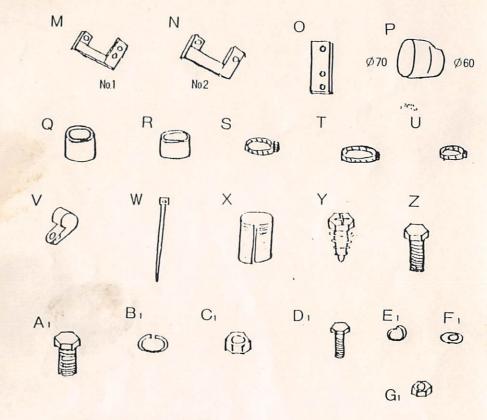
PARTS LIST

NO.	DESCRIPTION .	QTY
A	Intercooler Unit (STD. or SPL.)	1
B C D E F G H I J K L M N	Intercooler Pipe No.1 Intercooler Pipe No.2 Intercooler Pipe No.3 Intercooler Pipe No.4 Intercooler Pipe No.5 Intercooler Pipe No.6 Intercooler Pipe No.7 Intercooler Stay No.1 Intercooler Stay No.2 Intercooler Stay No.3 Intercooler Pipe Stay Air/Con Fan Stay No.1 Air/Con Fan Stay No.2	1 1 1 1 1 1 1 1 1 2
O P Q R S T U V W U	VCM Valve Stay Joint Hose Joint Hose 50¢ 1=70mm Joint Hose 50¢ 1=55mm Hose Band #36 Hose Band #40 Hose Band #28 Clamp Tie Wrap Thermo Tube	1 8 1 17 1 1 2 6
Y Z A1 B1 C1 D1 E1 F1	Tapping Screw Bolt M8-1.25 l=15mm Bolt M8-1.25 l=20mm M8 Spring Washer M8 Nut Bolt M6-1.0 l=10mm Spring Washer M6	2 3 3 6 3 5 7 5 3

NO.	DESCRIPTION	QTY
H ₁ I ₁ J ₁ K ₁ L ₁ M ₁ N ₁	Hose Band 22¢ Hose 4¢ 1=50cm Hose 22¢ 1=50cm Suction Pipe (Aluminum) Suction Hose 60¢-70¢ Hose Band #40 Hose Band #48	2 1 1 1 1 1
o_1	Three Way Joint 40	1







1. REMOVAL OF PARTS

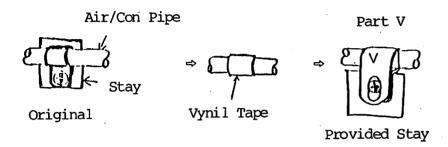
- a. Remove cable from negative terminal of battery.
- b. Remove the front grill under the bumper.
- c. Remove the stay of electric fan (Air/Con).
- d. Remove the clamp fixing air/con pipe to the condenser.
- e. Remove the cover of thermo sensor fitted behind the front bumper.



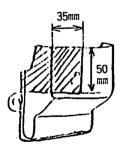
Thermo Sensor Cover

2. INSTALLATION OF INTERCOOLER UNIT

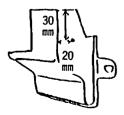
a. Plumbing of air/con pipe must be changed.
Replace the original clamp removed in
Procedure 1 with provided one as shown.



b. Modify the cover removed in Procedure 1 as shown.

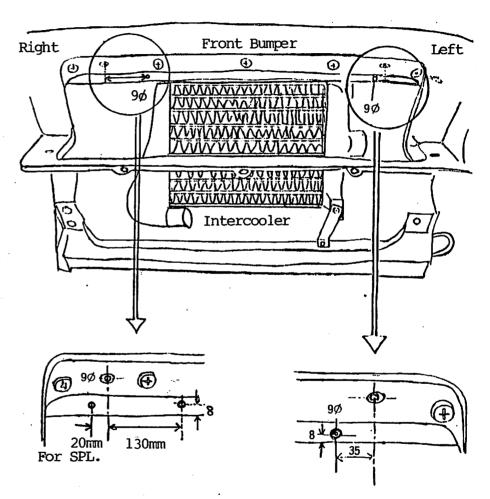


Cutting off



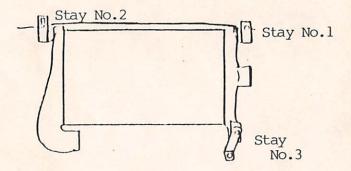
Drill a hole 60 at indicated place. The thermo sensor will be fitted to the hole and the cover will be fitted on the bumper.

c. Drill a hole at the lower part of bumper for installation of the intercooler unit.

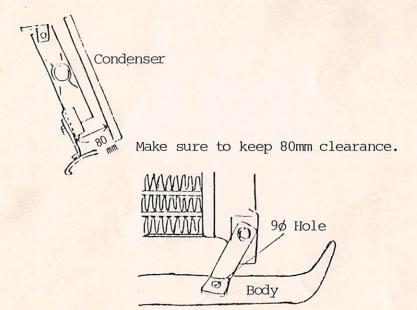


** Left-hand side hole will be the datum point.
For SPL intercooler, left-hand side hole must
be drilled, instead.

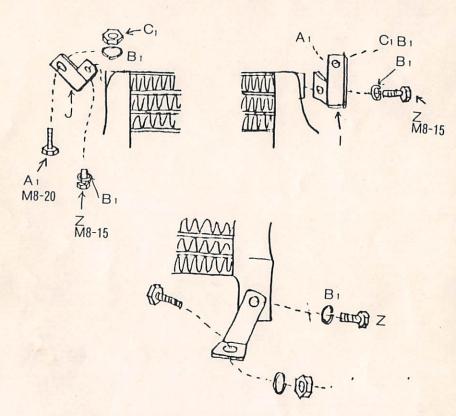
d. Fix the stay No.1, 2, 3, to the intercooler unit, then fit the intercooler to the holes on the bumper. The intercooler unit is fitted by two stays.



e. Drill a hole for Stay No.3.

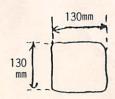


f. Fix the intercooler unit with provided bolts M8.

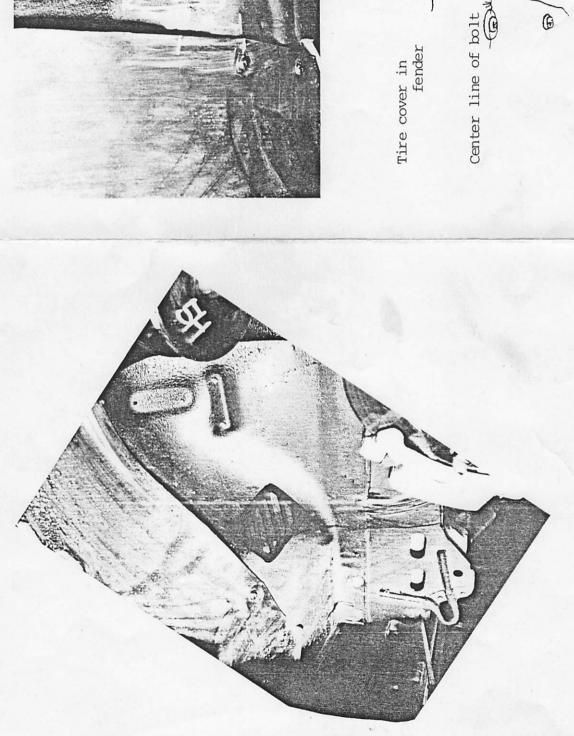


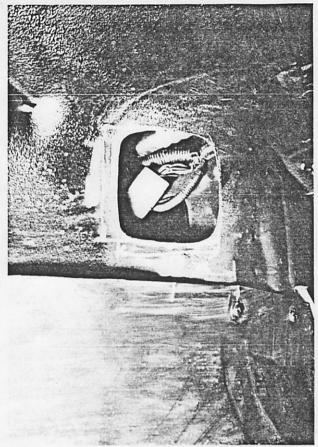
4. PLUMBING OF INTERCOOLER PIPES

a. Jack up the front part and remove front-left wheel. Drill hole in the tire house for piping. Refer the picture on the next page.

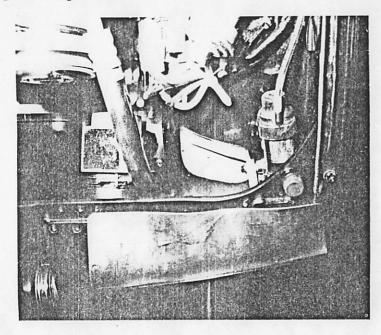




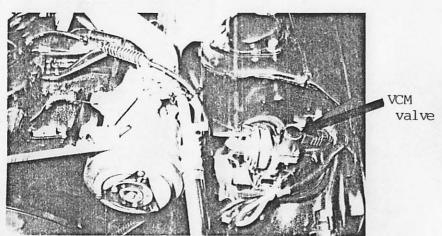




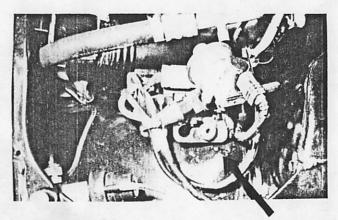
Engine compartment



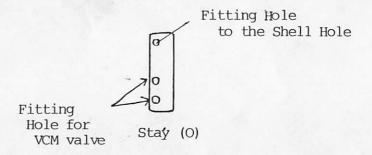
Transfer of VCM valve

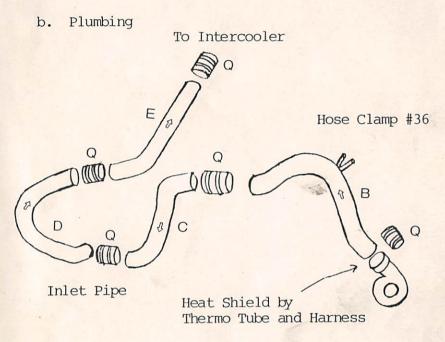


Remove VCM valve and transfer it using provided stay (0), tapping screw, and bolt M6.

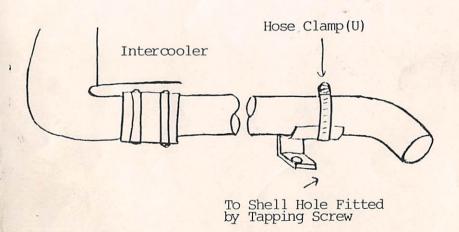


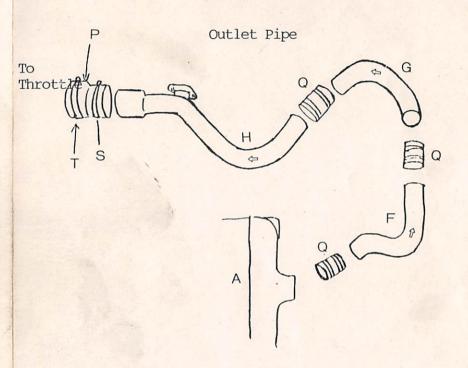
Original Hole on Body Shell



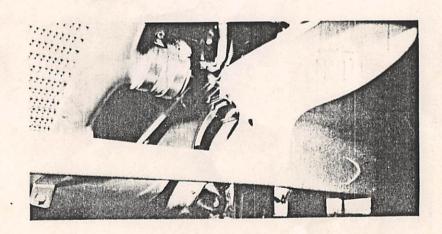


**Pipe(E) should be fitted on the body shell by the pipe stay.

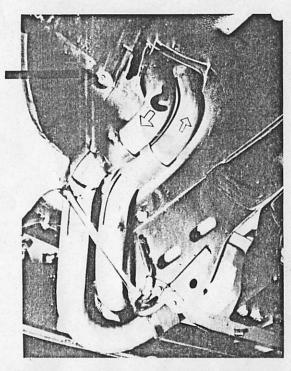




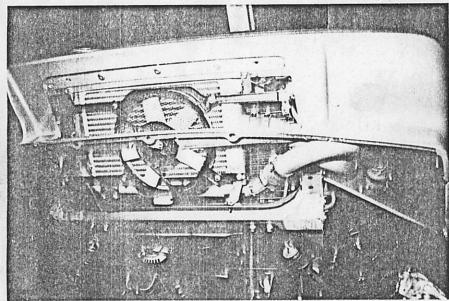
When plumbing pipe(F), cut off bumper rubber to allow piping. (See picture below)



Fix the clamp removed in Procedure 1-d to this bolt and hang the pipe(C) by tiewrap.

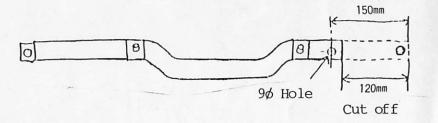


Refer picture

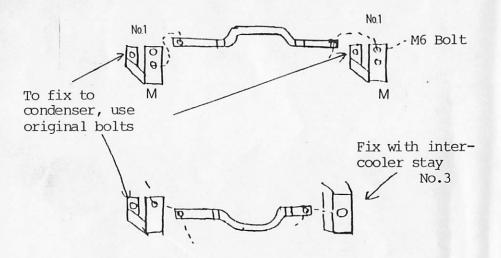


5. INSTALLATION OF ELECTRIC FAN OF AIR/CON

a. Modify the stay.



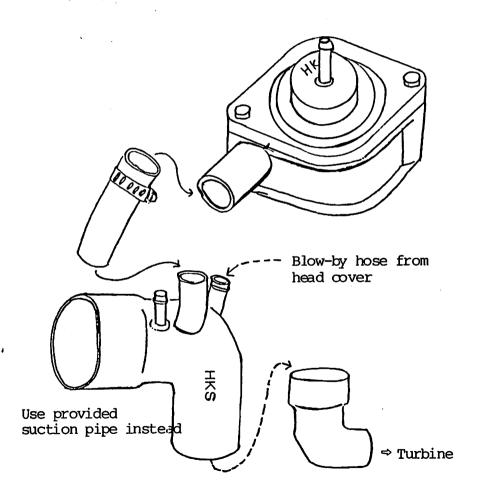
Using fan stay No.1 x 2 pcs. and No.2, fix the stay and fan.

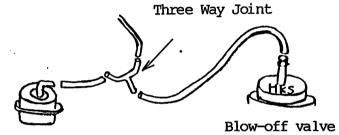


- ** Shave off bumper rubbler where the electric fan touches.
- ** Cut off a part of the front grill where the fan touches.

6. INSTALLATION OF BLOW-OFF VALVE

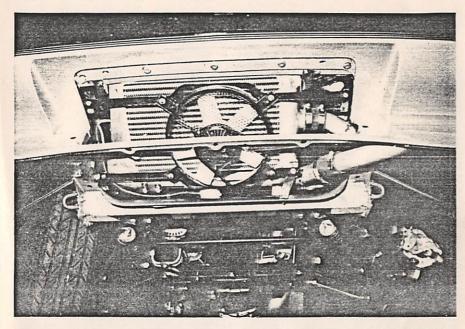
Connect 22ϕ hose with the blow-off valve fitted on the intercooler pipe No.7 and make connection with provided suction pipe 22ϕ .

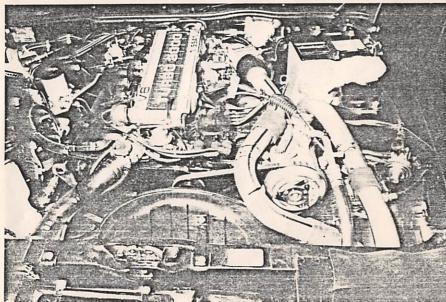


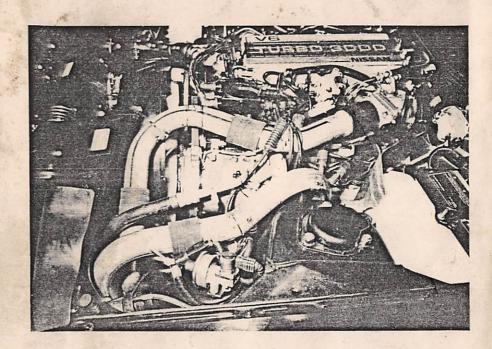


Fuel regulator

** Blow-off valve functions to improve throttle response at acceleration and deceleration and minimize load to the turbocharger and turbo lag. Page 18







Wrap rubber cushion around the intercooler pipe (H) to prevent the pipe from touching to the engine.

7. ADJUSTMENT

Installation of the intercooler can advance the ignition timing from 20° (BTDC) to 25° and increase the boost pressure up to 8.5 PSI (0.6kg/cm²) at maximum.