# GROUP 15

## INTAKE AND EXHAUST

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AIR INTAKE SYSTEM

AIR DUCT AND AIR CLEANER <134, 135>

Best tuning by means of following component contributes higher engine performance and vehicle silence with simple system.

- Air cleaner intake duct with restriction.
- Resonator integrated air cleaner.
- Cool air intake.

CONSTRUCTION DIAGRAM

AIR DUCT AND AIR CLEANER <639>

The air intake system consists of the air cleaner intake duct, the air cleaner assembly, the air cleaner air flow sensor, and the air intake hose.

CONSTRUCTION DIAGRAM

INTERCOOLER <639>

By mounting an air cooled intercooler to reduce the intake air temperature after boosting, engine output has been improved.
EXHAUST SYSTEM

EXHAUST PIPE AND MUFFLER <134, 135>

The exhaust system is compatible in the engine performance and the silence.

- Exhaust system: Commonize exhaust system with 1.1L & 1.3L and emphasize sporty sound for 1.5L.
- Front exhaust pipe (incorporating catalytic converter): Realization of the compatibility of the engine performance and the exhaust gas emission performance.
- Centre exhaust pipe (integrated with pre-muffler): Exhaust noise reduction in adopting the expansion type pre-muffler.
- Exhaust main muffler: Exhaust noise reduction in adopting the resonance and expansion type main muffler.
- Clamp: Weight reduction in adopting clamp connection which is alternative for flange connection.
- Hanger bracket: Weight reduction in adopting hollow pipe hanger bracket.
The exhaust system consists of the front exhaust pipe, the centre exhaust pipe, and the exhaust main muffler.