

---

## ■ COOLING SYSTEM [H3T]

id01121c002800

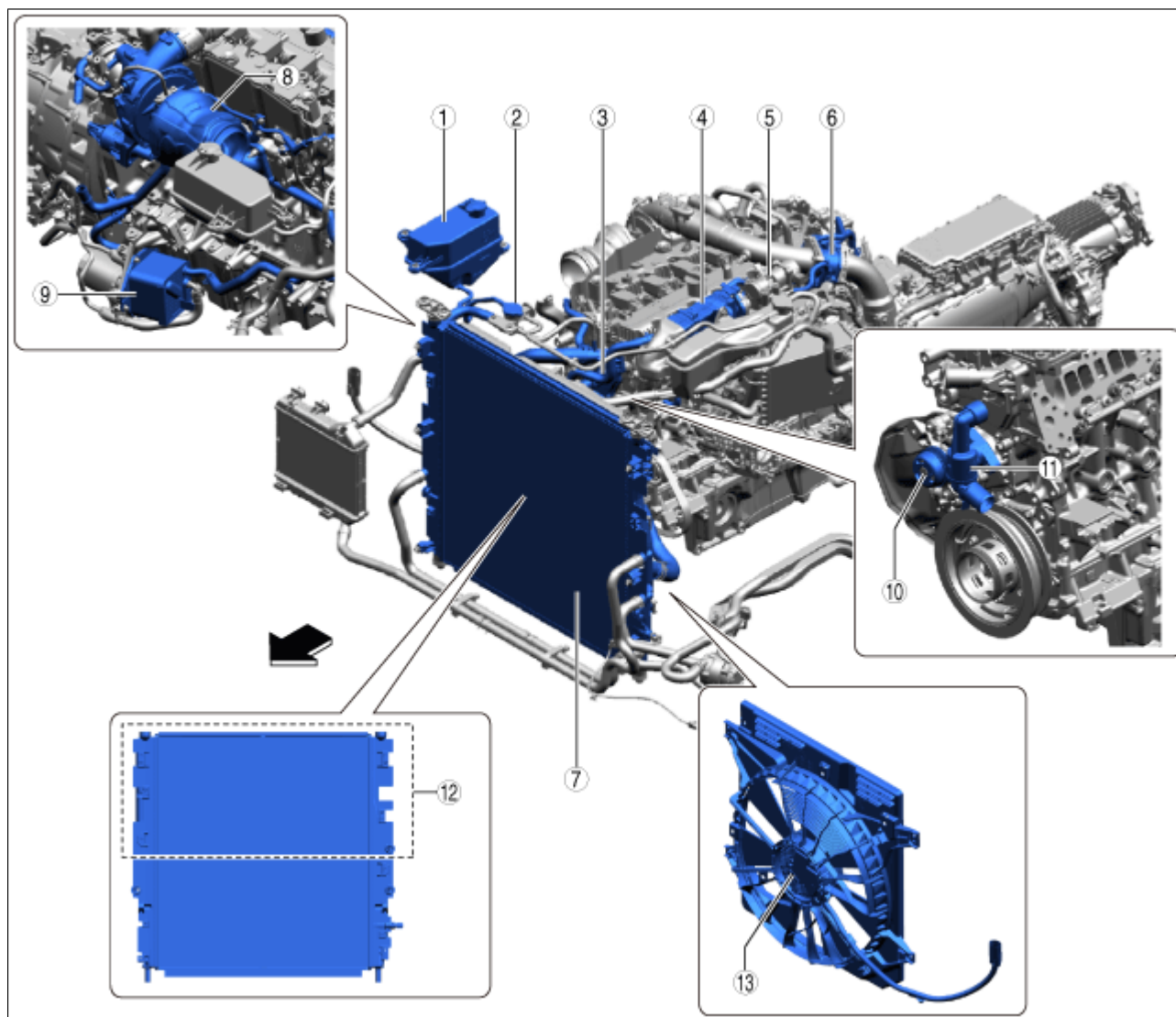
id01121c002800

### Outline

- The engine coolant passage has adopted the following parallel coolant passages.
  - Coolant passage (high temperature side) for engine cooling
  - Coolant passage (low temperature side) for water-cooled charge air cooler and M Hybrid Boost system cooling
- A side radiator has been adopted to enhance the cooling effect. (e-SKYACTIV G (HIGH POWER))

### Structural View

**Coolant passage (high temperature side) for engine cooling**



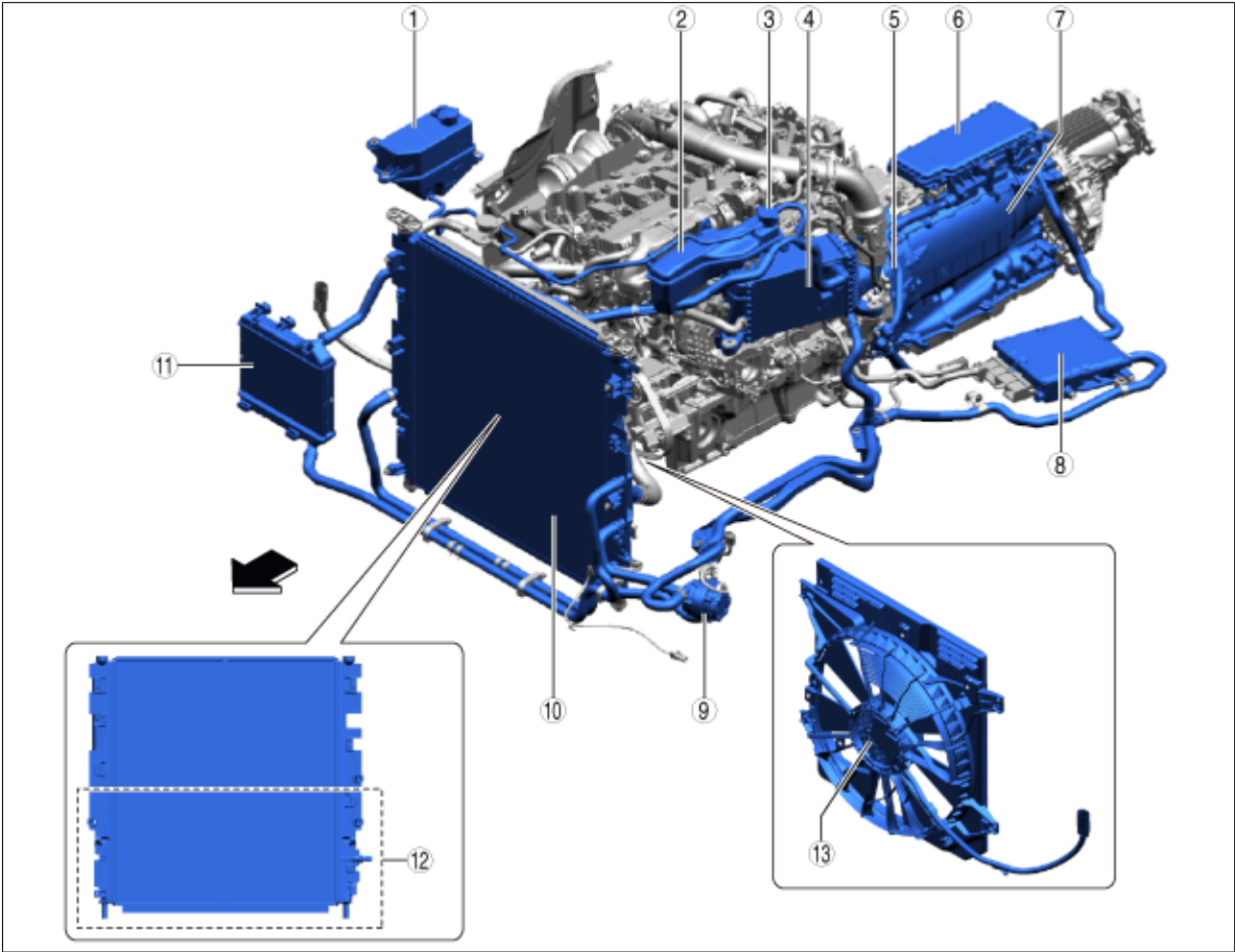
a90uun00000050

1	Coolant reserve tank
2	Cooling system cap
3	Water outlet
4	EGR cooler
5	EGR valve
6	Throttle body
7	Radiator
8	Twinscroll turbocharger
9	Oil cooler
10	Water pump

11	Thermostat
12	Radiator(Upper side)
13	Cooling fan component • Fan control module

- For details on the coolant passage on the heater system side, refer to [HEATER SYSTEM].

Coolant passage (low temperature side) for water-cooled charge air cooler and M Hybrid Boost system cooling



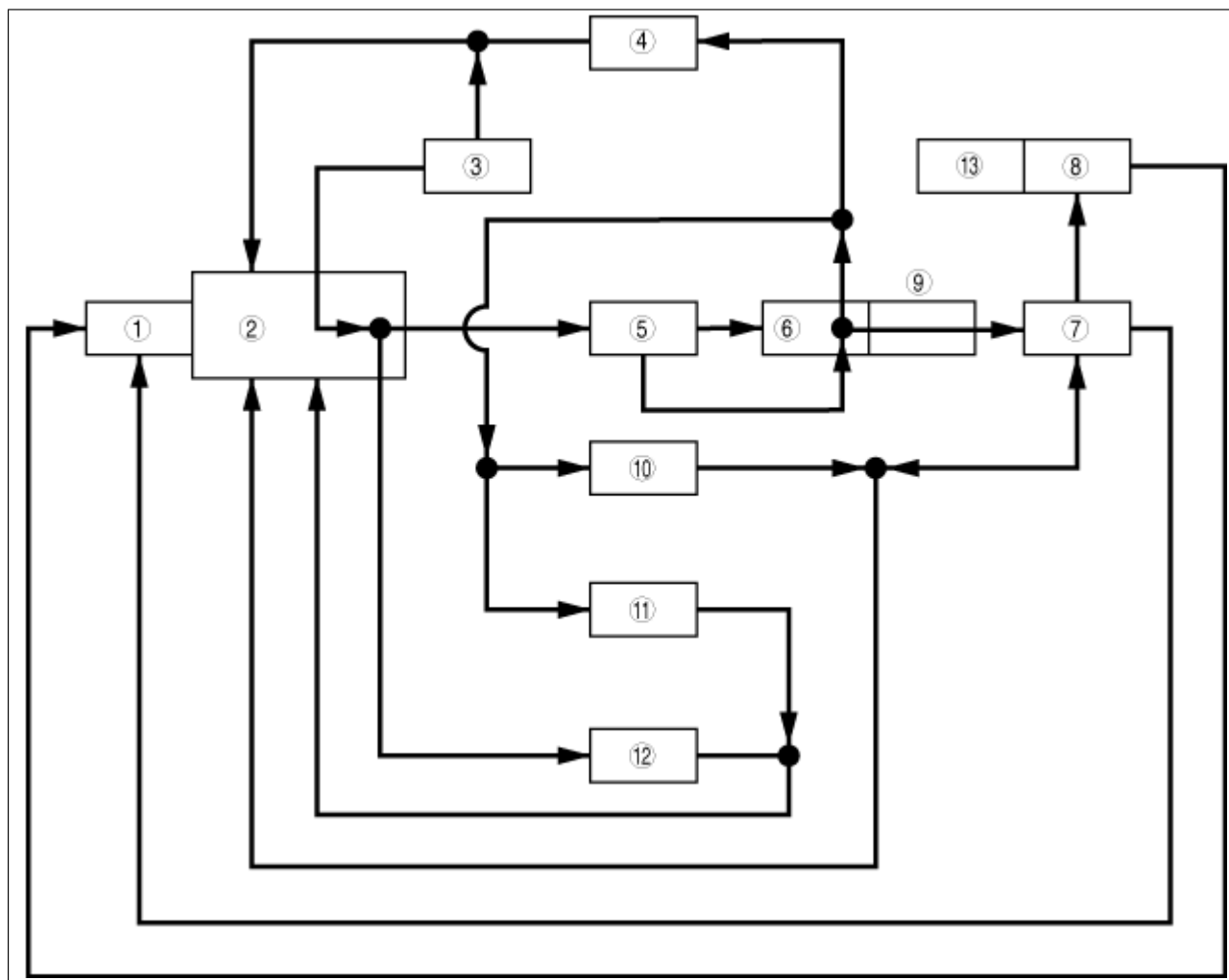
a90uun00000051

1	Coolant reserve tank
2	Water-cooled charge air cooler reserve tank

3	Water-cooled charge air cooler reserve tank cap
4	Water-cooled charge air cooler
5	Motor
6	Inverter
7	Transmission
8	DC-DC converter (M-hybrid boost)
9	Electric water pump
10	Radiator
11	Side radiator
12	Radiator(Lower side)
13	Cooling fan component • Fan control module

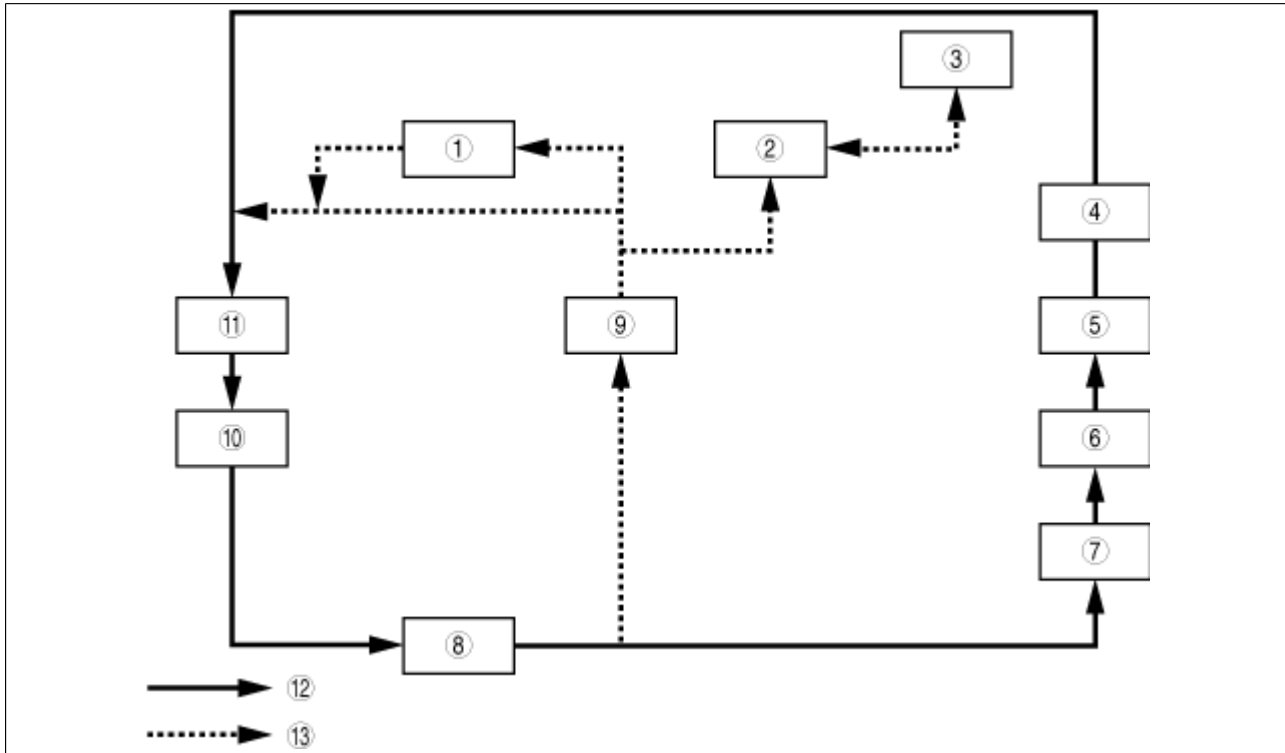
## Flow view

## Engine body side



a90uun00000052

1	Thermostat
2	Water pump
3	EGR cooler
4	Throttle body
5	Cylinder block
6	Cylinder head
7	Water outlet
8	Radiator(Upper side)
9	ECT sensor No.1
10	Twinscroll turbocharger
11	Heater core
12	Oil cooler

**Water-cooled intercooler side**

a90uun00000053

1	Radiator(Lower side)
2	Water-cooled charge air cooler reserve tank cap
3	Water-cooled charge air cooler reserve tank
4	Transmission
5	Motor
6	Inverter
7	DC-DC converter (M-hybrid boost)
8	Electric water pump
9	Water-cooled charge air cooler
10	ECT sensor No.2
11	Side radiator
12	Water flow direction 1
13	Water flow direction 2