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## CHAPTER 5. CARBURETION

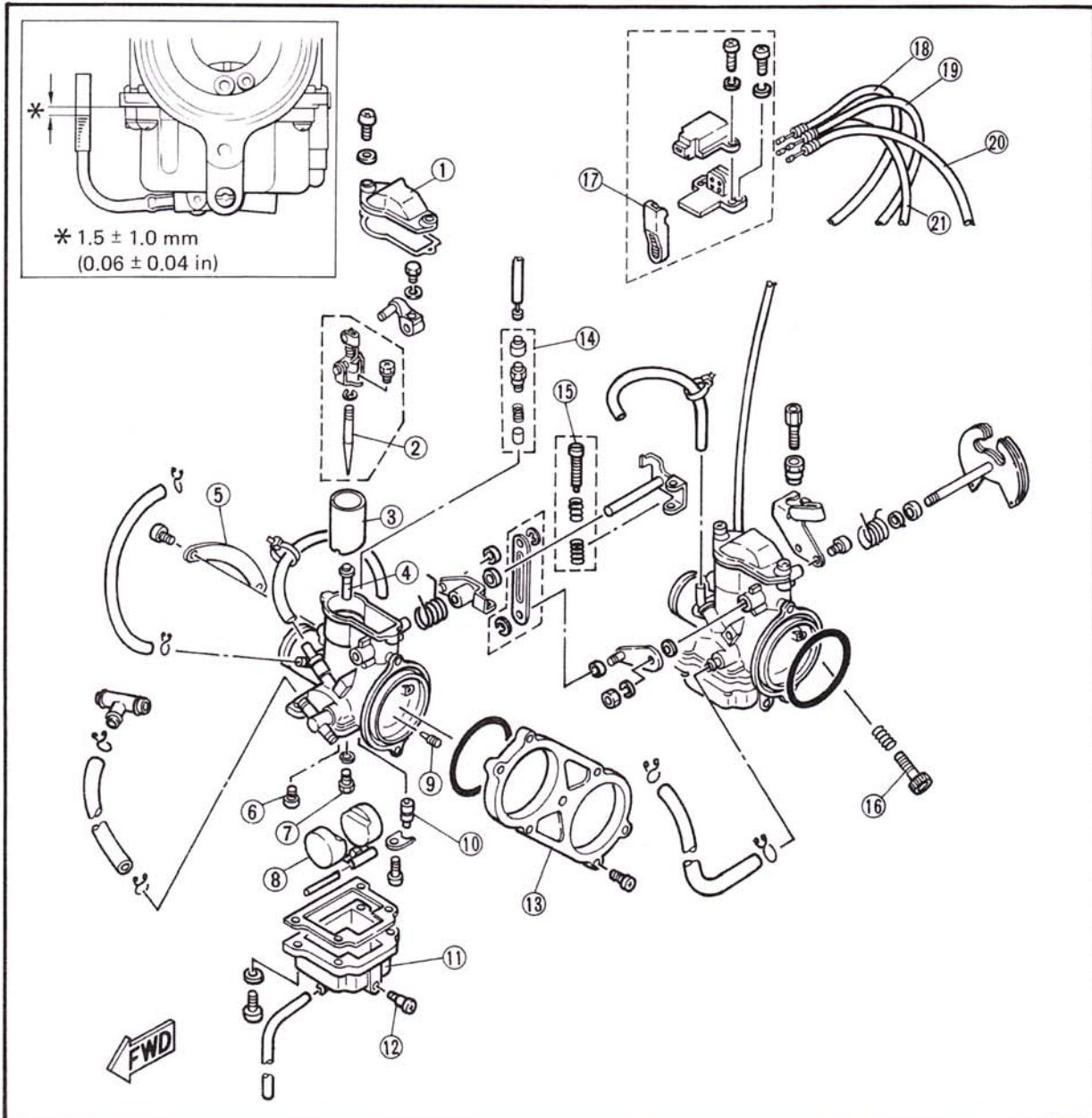
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**CARB****CARBURETOR****CARBURETION****CARBURETOR**

- |                   |                               |
|-------------------|-------------------------------|
| 1. Top cover      | 12. Drain screw               |
| 2. Jet needle     | 13. Carburetor holder         |
| 3. Throttle valve | 14. Starter plunger           |
| 4. Needle jet     | 15. Synchronizing screw       |
| 5. Bracket        | 16. Throttle stop screw       |
| 6. Pilot jet      | 17. Choke lever               |
| 7. Main jet       | 18. To right upper carburetor |
| 8. Pilot air jet  | 19. To right lower carburetor |
| 9. Valve seat     | 20. To left lower carburetor  |
| 10. Float         | 21. To left upper carburetor  |
| 11. Float chamber |                               |

**SPECIFICATIONS**

Main jet	# 195
Main air jet	# 1.8 (upper cylinder) # 1.6 (lower cylinder)
Jet needle	5LT14-3
Needle jet	O-O
Pilot jet	# 22.5
Pilot air jet	# 1.1
Fuel level	1.5 ± 1.0 mm (0.06 ± 0.04 in)
Float height	21.0 ± 1.0 mm (0.83 ± 0.04 in)
Float valve seat	φ 2.8
Engine idle speed	1,250 r/min

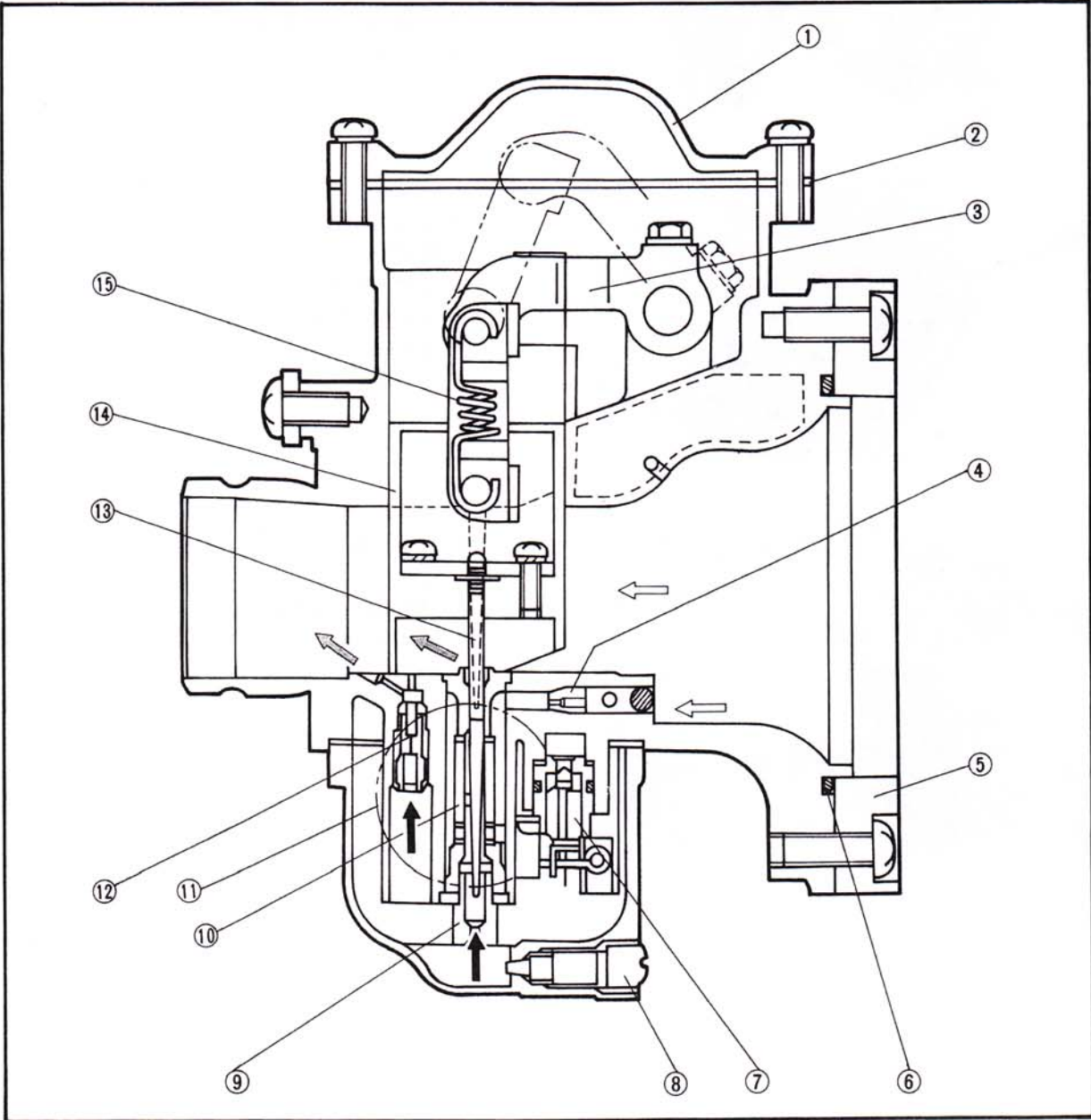




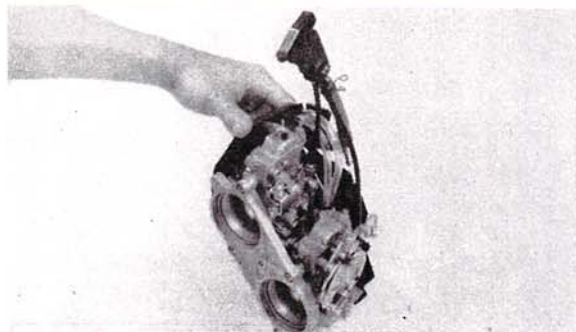
SECTION VIEW

- 1. Top cover
- 2. Gasket
- 3. Lever
- 4. Pilot air jet
- 5. Carburetor holder
- 6. O-ring
- 7. Valve seat
- 8. Drain screw
- 9. Main jet
- 10. Needle jet
- 11. Float
- 12. Pilot jet
- 13. Jet needle
- 14. Throttle valve
- 15. Spring

A	←	AIR
B	←	MIXTURE
C	←	FUEL



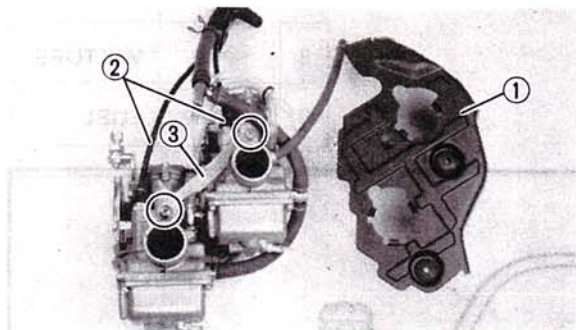
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**CARBURETOR OVERHAUL**

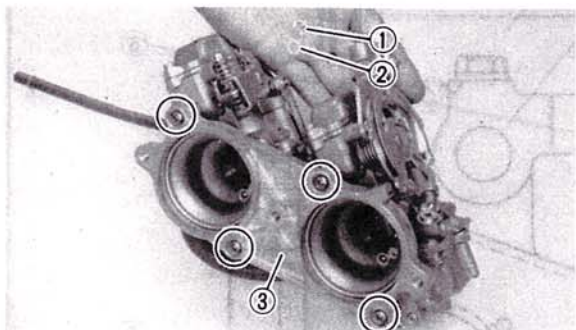
**REMOVAL**

1. Remove:
  - Carburetor assembly
 Refer to engine removal section.



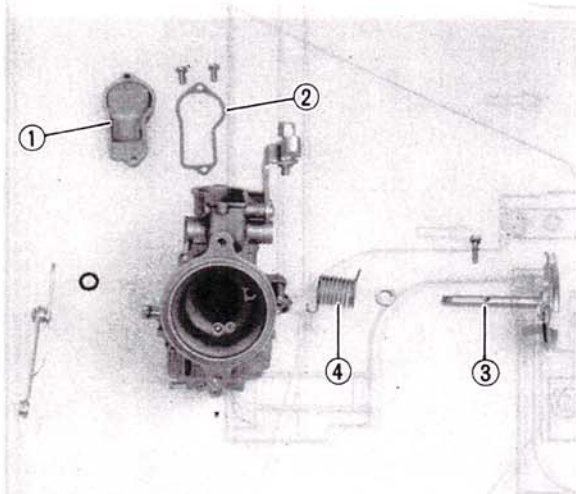
**DISASSEMBLY**

1. Disconnect:
  - Carburetor cover ①
  - Hoses
2. Remove:
  - Starter plungers ②
  - Bracket ③



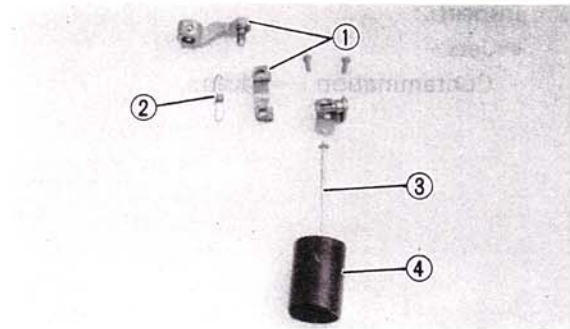
3. Remove:
  - Circlip ①
  - Washer ②
  - Carburetor holder ③
  - Carburetors
  - O-rings

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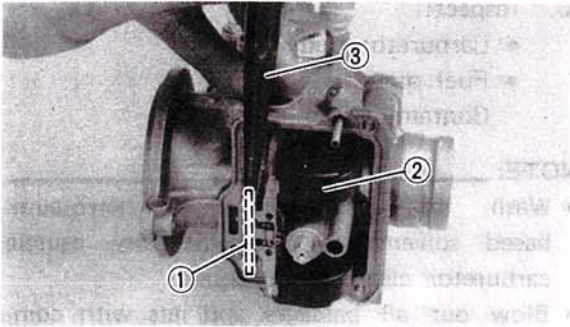


4. Remove:
  - Top cover ①
  - Gasket ②
  - Throttle pulley ③
  - Spring ④

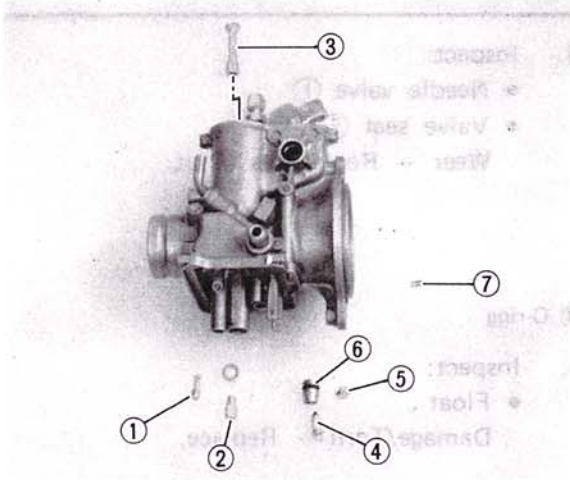
# CARBURETOR OVERHAUL



5. Remove:
  - Lever ①
  - Spring ②
  - Jet needle ③
  - Throttle valve ④
  - Float chamber
  - Gasket



6. Remove:
  - Float pin ①
  - Float ②

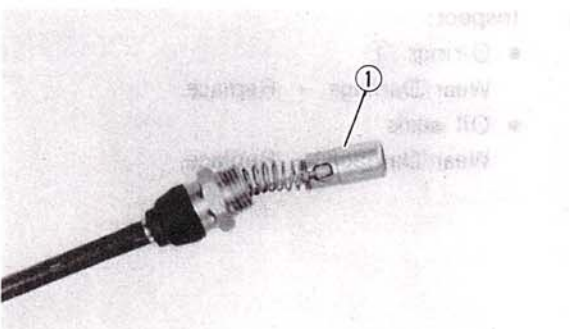


③ Center punch

7. Remove:
  - Pilot jet ①
  - Main jet ②
  - Needle jet ③
  - Needle valve ④
  - Screw ⑤
  - Valve seat ⑥
  - Pilot air jet ⑦

**NOTE:** \_\_\_\_\_  
 Remove the needle jet toward the throttle valve.  
 \_\_\_\_\_

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## INSPECTION

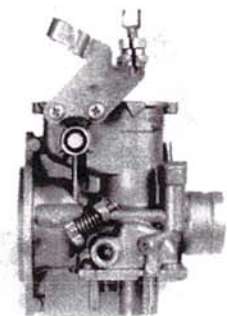
1. Inspect:
  - Starter plunger ①  
Damage/Wear → Replace.
  - Throttle valve  
Scratches/Wear → Replace.
  - Jet needle  
Bends/Wear → Replace.



2. Inspect:
  - Jets
  - Contamination → Clean.



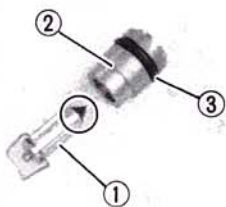
3. Inspect:
  - Carburetor body
  - Fuel passage
  - Contamination → Clean.



**NOTE:** \_\_\_\_\_

- Wash the carburetor in a petroleum-based solvent. Do not use any caustic carburetor cleaning solutions.
- Blow out all passages and jets with compressed air.

4. Inspect:
  - Needle valve ①
  - Valve seat ②
  - Wear → Replace as a set.

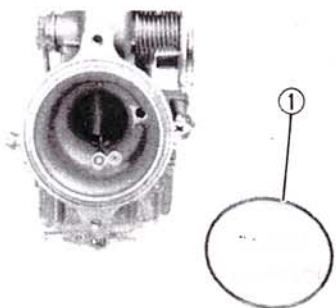


③ O-ring

5. Inspect:
  - Float
  - Damage/Torn → Replace.



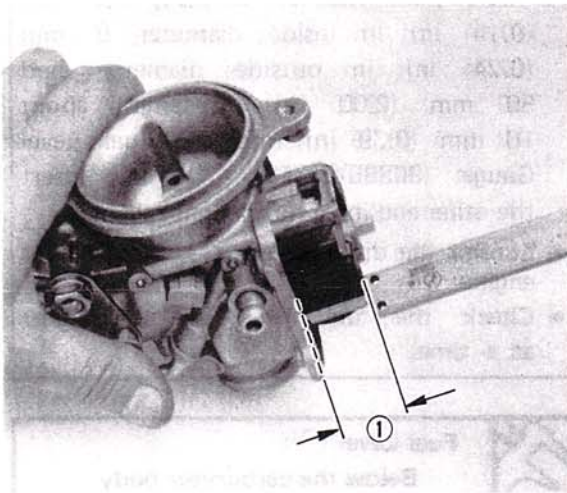
6. Inspect:
  - O-rings ①
  - Wear/Damage → Replace.
  - Oil seals
  - Wear/Damage → Replace.



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**ASSEMBLY**

1. Assembly:
  - Carburetors  
Reverse the disassembly procedures.



**FLOAT HEIGHT ADJUSTMENT**

1. Measure:
  - Float height ①  
Out of specification → Adjust.

**Float height measurement steps:**

- Hold the carburetor in an upside down position.
- Incline the carburetor at 60 ~ 70° (so that the end of the float valve does not hang down as a result of float weight).
- Measure the distance from the mating surface of the float chamber (gasket removed) to the top of the float.

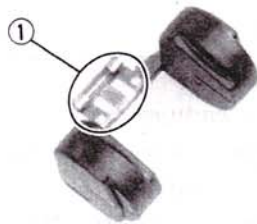
**NOTE:**

The float should be just resting on, but not depressing, the spring loaded inlet needle.



**Float Height ①:**  
21.0 ± 1.0 mm (0.83 ± 0.04 in)

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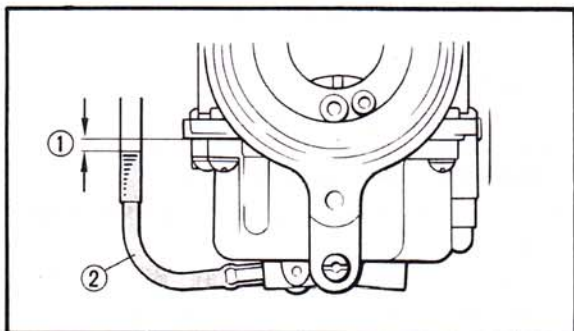
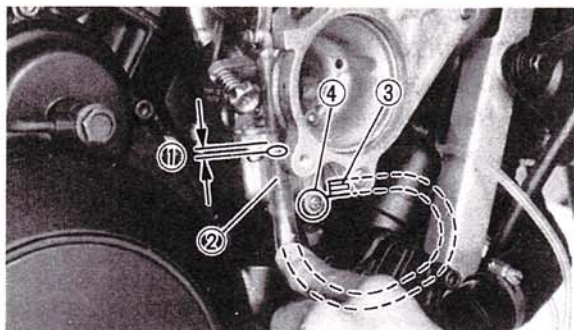


**Float height adjustment step:**

- Remove the float.
- Adjust float height by bending the float tang ① slightly.
- Repeat the procedure for other carburetors.

**INSTALLATION**

1. Install:
  - Carburetors  
Reverse the removal steps.



**FUEL LEVEL ADJUSTMENT**

1. Measure:
  - Fuel level ①
  - Out of specification → Adjust.

**Measurement steps:**

- Place the motorcycle on a level surface.
- Use a garage jack under the engine to ensure that the carburetor is positioned vertically.
- Insert one end of a pipe, 3.5 mm (0.14 in) in inside diameter, 6 mm (0.24 in) in outside diameter, and 50 mm (2.00 in) in length about 10 mm (0.39 in) into the Fuel Level Gauge (90890-01312) ②, and insert the other end into the drain nozzle ③.
- Loosen the drain screw ④ and start the engine.
- Check the fuel level, one carburetor at a time.

**Fuel Level ① :**  
 Below the carburetor body  
 $1.5 \pm 1.0 \text{ mm } (0.06 \pm 0.04 \text{ in})$

- ② Carburetor body
- ③ Float chamber

2. Adjust:
  - Fuel level
  - If necessary.

**Adjustment steps:**

- Remove the carburetors.
- Adjust float level by bending the float tang ① slightly.
- Repeat the procedure for the other carburetors.

3. Adjust:
  - Carburetor cables
  - Carburetor synchronization
  - Engine idle speed
 Refer to CHAPTER 2 for adjustment.

**Engine Idle Speed:**  
 1,250 r/min

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