

# Hondamatic

## Stall Speed Test

1. Engage parking brake and block front wheels.
2. Connect tachometer, and start engine.
3. After engine has warmed up to normal operating temperature, shift into  $\star$ .
4. Fully depress brake pedal and accelerator for 6 to 8 seconds, and note engine speed.
5. Allow 2 minutes for cooling, then repeat same test in  $L$  and  $R$ .

Stall speed in  $\star$ ,  $L$ , and  $R$  must be the same, and must also be within limits:

### Stall Speed RPM:

**Specification: 2700 rpm**

**Service Limit: 2300–2900 rpm**

**CAUTION:** Do not test stall speed for more than 10 seconds at a time.

TROUBLE	PROBABLE CAUSE
Stall rpm high in $OD$ , $\star$ , $L$ , $R$	Low fluid level or oil pump output, clogged oil strainer, pressure regulator, slipping one-way clutch in torque convertor.
Stall rpm high in $OD$ , $R$	Slipping $OD$ clutch.
Stall rpm high in $L$	Slipping $L$ clutch.
Stall rpm high in $\star$	Slipping $\star$ clutch.
Stall rpm low in $OD$ , $\star$ , $L$ , $R$	<ul style="list-style-type: none"> <li>• Engine output low, throttle cable misadjusted at carburetor.</li> <li>• Oil pump seized, torque convertor thrust washer seized.</li> </ul>

## Maintenance

### Checking

With car on level ground unscrew transmission dipstick and check level of fluid immediately after (within one minute) engine is shut off. Fluid level should be between full and low marks. If level is at, or below, low mark, add DEXRON-type automatic transmission fluid. Do not screw dipstick in to check fluid level.

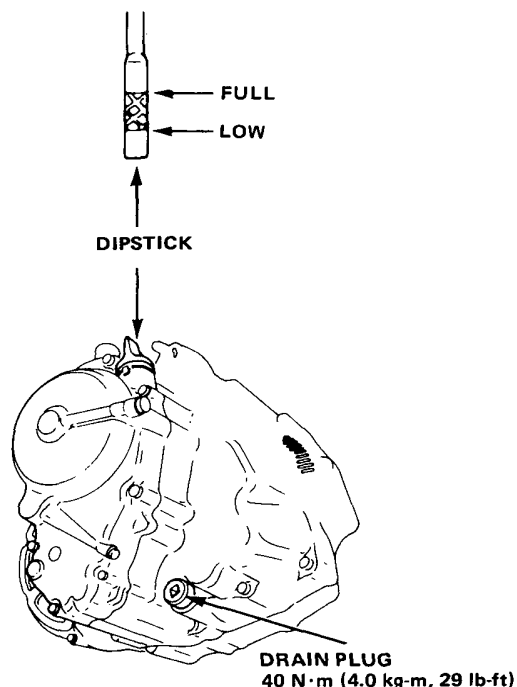
### Changing

1. Bring transmission up to operating temperature by driving car. Park car on level ground, turn engine off, then remove drain plug.
2. Reinstall drain plug with new washer, then refill transmission to the full mark on the dipstick.

### Automatic transmission Capacity:

**2.8ℓ (2.9 U.S. qts.) at change**

**5.4ℓ (5.6 U.S. qts.) at assembly**





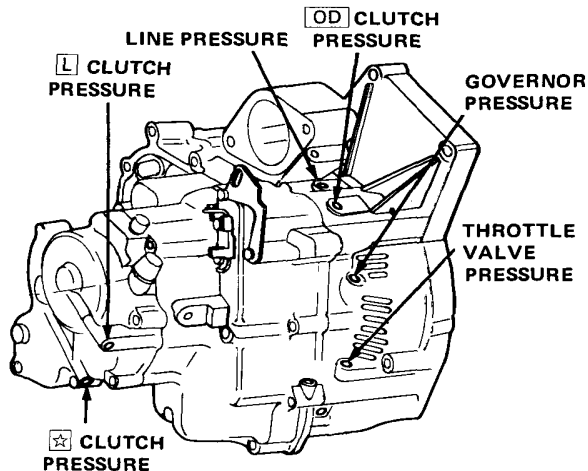
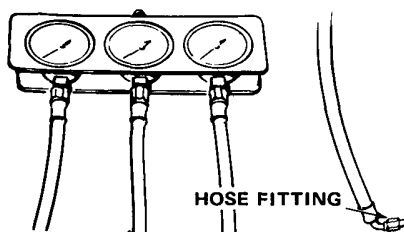
## Pressure Test

### NOTE:

- Stop engine when attaching hoses for pressure tests. Torque hose fittings to 18 N·m (1.8 kg·m, 12 lb-ft).
- Do not reuse aluminum washers.

### GAUGE SET

07406-0020003 (includes pressure hose set 07406-0020201)



**CAUTION:** Before checking, be sure transmission is filled to proper level.

PRESSURE	SELECTOR POSITION	MEASUREMENT	SYMPTOM	PROBABLE CAUSE	FLUID PRESSURE	
					SPECIFICATION	SERVICE LIMIT
LINE	N or P	<b>MEASUREMENTS</b> <ul style="list-style-type: none"> <li>• With parking brake applied, run engine at 2000 min<sup>-1</sup> (rpm).</li> </ul>	No (or low) LINE pressure	Torque converter, oil pump pressure regulator, torque converter check valve.	1500 736-785 kpa (7.5-8.0 kg/cm <sup>2</sup> , 106.7-113.7 psi) 1300/1200 637-687 kpa (6.5-7.0 kg/cm <sup>2</sup> , 91.8-98.9 psi)	1500 687 kpa (7.0 kg/cm <sup>2</sup> , 99.5 psi) 1300/1200 588 kpa (6.0 kg/cm <sup>2</sup> , 85.2 psi)
L CLUTCH	L	<b>MEASUREMENTS</b> <ul style="list-style-type: none"> <li>• With parking brake applied, raise front wheels off ground and support with safety stands.</li> <li>• Run engine at 2000 min<sup>-1</sup> (rpm).</li> </ul>	No (or low) L clutch pressure	L clutch	1500 687-785 kpa (7.0-8.0 kg/cm <sup>2</sup> , 99.5-113.7 psi) 1300/1200 588-687 kpa (6.0-7.0 kg/cm <sup>2</sup> , 85.2-99.5 psi)	1500 638 kpa (6.5 kg/cm <sup>2</sup> , 92.4 psi) 1300/1200 539 kpa (5.5 kg/cm <sup>2</sup> , 78.2 psi)
☆ CLUTCH	☆		No (or low) ☆ clutch pressure	☆ clutch		
OD	OD		No (or low) OD clutch pressure	OD clutch		
THROTTLE	☆ or OD	<ul style="list-style-type: none"> <li>• With parking brake applied, run engine at 1000 min<sup>-1</sup> (rpm).</li> <li>• Disconnect throttle cable at throttle lever.</li> <li>• Read pressure with lever released.</li> <li>• Manually push lever up simulating full throttle.</li> <li>• Read pressure with lever in full throttle position.</li> </ul>	No (or low) THROTTLE pressure	Throttle valve Throttle modulator valve	With lever in full throttle position. 1500 736-785 kpa (7.5-8.0 kg/cm <sup>2</sup> , 106.7-113.7 psi) 1300/1200 637-687 kpa (6.5-7.0 kg/cm <sup>2</sup> , 91.8-98.9 psi)	1500 686 kpa (7.0 kg/cm <sup>2</sup> , 100 psi) 1300/1200 588 kpa (6.0 kg/cm <sup>2</sup> , 85.2 psi)
GOVERNOR	☆ or OD	<ul style="list-style-type: none"> <li>• Place vehicle on chassis dynamometer, or jack up front of car, support with safety stands, block rear wheels, and set hand brake.</li> <li>• Run vehicle at 60 km/h (38 mph).</li> </ul>	No (or low) Governor pressure	Governor valve	221-230 kpa (2.25-2.35 kg/cm <sup>2</sup> , 31.9-33.3 psi)	98.0 kpa (2.2 kg/cm <sup>2</sup> , 31.2 psi)