TUNE-UP

Accord
Civic
Prelude

ENGINE IDENTIFICATION

Engine serial number is stamped on a machined surface at the right rear of the engine, near the starter. Engine serial number is preceded by the engine code.

Engine Code

Application	Code
Accord & Prelude	EK1
Civic	
1300	EJ1
1500	EM1

COMPRESSION PRESSURE

Check compression with engine at normal operating temperature, air cleaner and spark plugs removed, throttle and choke valve wide open and engine at normal cranking speed (300 RPM). Crank engine at least 6 "puffs" per cylinder to determine engine compression.

Compression Pressure Specifications

Application	Pressure psi (kg/cm²)
All Models	
Normal (New Engine)	185 (13)
Minimum	156 (11)
Maximum Variation	28 (2)

VALVE CLEARANCE

1) Adjust valves with engine cold. Remove valve cover and set No. 1 piston at TDC. Cutaway notch in camshaft belt pulley should be at top (Civic) or word "UP" should be at top (Accord and Prelude). Adjust valves for No. 1 cylinder.

2) Repeat procedure for remaining valves in firing order sequence, rotating crankshaft 180° counterclockwise after each adjustment to position piston of next cylinder in sequence at TDC of compression stroke.

Valve Clearance Specifications

Application	Clearance
Accord & Prelude	
Intake & Auxiliary	.005-.007" (.12-.17 mm)
Exhaust	.010-.012" (.25-.30 mm)
Civic	
Intake & Auxiliary	.005-.007" (.12-.17 mm)
Exhaust	.007-.009" (.17-.22 mm)

VALVE ARRANGEMENT

All Models
Left Side — I-E-E-I-I-E-E-I
Right Side — All Auxiliary.

SPARK PLUGS

Application	Gap In. (mm)	Torque Ft. Lbs. (N·m)
Accord & Prelude	.041 (1.0)	17 (23)
Civic	.041 (1.0)	13 (18)

Spark Plug Type

Application	Nippondenso	NGK
Accord & Prelude	W21ES-L11	B6EB-L11
Civic	W20ES-L11	B6EB-11

HIGH TENSION WIRE RESISTANCE

Carefully remove ends of wire from spark plug and distributor. Using an ohmmeter, check resistance of wire while gently twisting wire. If resistance is not to specification, or fluctuates from infinity to any value, replace wire.

Resistance (Ohms) Per Wire

Application	Resistance
All Models (2 ft. length)	25,000 Max.

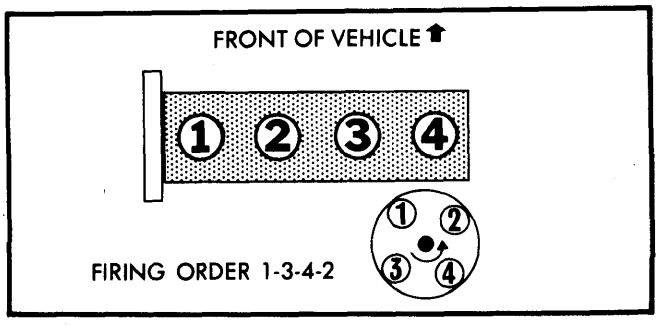

Fig. 1 Firing Order and Distributor Rotation

DISTRIBUTOR

All models are equipped with electronic breakerless ignition systems and no adjustments are necessary.

TUNE-UP (Cont.)

IGNITION TIMING

1) Remove rubber inspection cap from window on cylinder block. Attach timing light. Engine should be idling at normal operating temperature.

2) Timing is correct if specified mark on flywheel is aligned with index pointer on crankcase.

3) To adjust, loosen distributor bolt and turn body counterclockwise to retard timing and clockwise to advance timing.

Ignition Timing Specifications

Application	Man. Trans.	①Auto. Trans.
Accord & Prelude	TDC	TDC
Civic		
1300	2°BTDC	2°BTDC
1500		
Federal		
Hatchback	10°BTDC	2°ATDC
Sedan & Wagon	4°BTDC	2°ATDC
Calif.	2°ATDC	2°ATDC

① — Transmission in Drive.

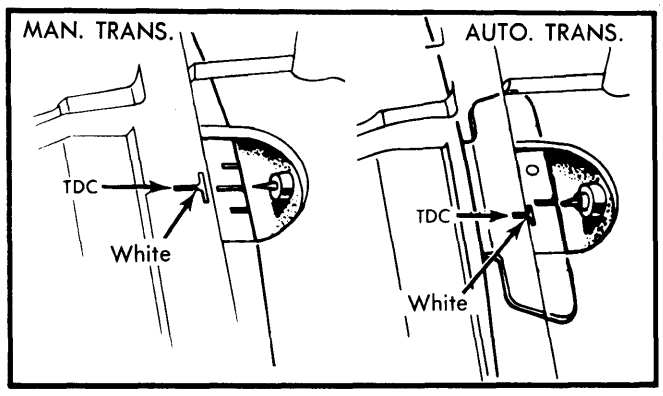

Fig. 2 Ignition Timing Mark Location (Accord & Prelude)

IDLE SPEED & MIXTURE

PROPANE ENRICHMENT PROCEDURE

NOTE — *Mixture adjustment is NOT a part of normal tune-up procedure and should not be performed unless carburetor is overhauled or vehicle fails emissions testing.*

1) Start engine and warm up to normal operating temperature. Remove vacuum tube from hot air door on air cleaner and plug tube. Connect tachometer and check idle speed with all electrical accessories off.

2) If necessary, adjust idle speed with throttle screw. If equipped with air conditioning, turn system on. Idle speed should not change. If necessary, turn adjusting screw on idle boost diaphragm to return idle to specification.

3) Pull air cleaner intake tube from air duct near radiator. Insert propane hose 4" into air intake tube and slowly open valve. Engine should be idling (in Drive on automatics).

4) Engine speed should increase to enriched RPM. If not, remove carburetor from engine, disconnect throttle opener linkage and remove throttle opener bracket. Remove mixture adjusting screw hole cap. Replace bracket and linkage. Reinstall carburetor.

5) Repeat steps 1) through 3). If peak RPM is below enriched RPM, turn mixture adjusting screw clockwise to lean out mixture and increase RPM. If above enriched RPM, turn mixture adjusting screw counterclockwise to enrichen mixture and lower RPM.

6) Run engine at 2500 RPM for 10 seconds to stabilize mixture, then test again. Repeat procedure until idle speed and increase are correct.

7) Remove propane equipment and reconnect vacuum hose to air cleaner hot air door. Recheck idle speed with air conditioning on, if so equipped, and adjust idle boost diaphragm screw. See *Fig. 4*. Replace idle mixture adjusting screw hole cap.

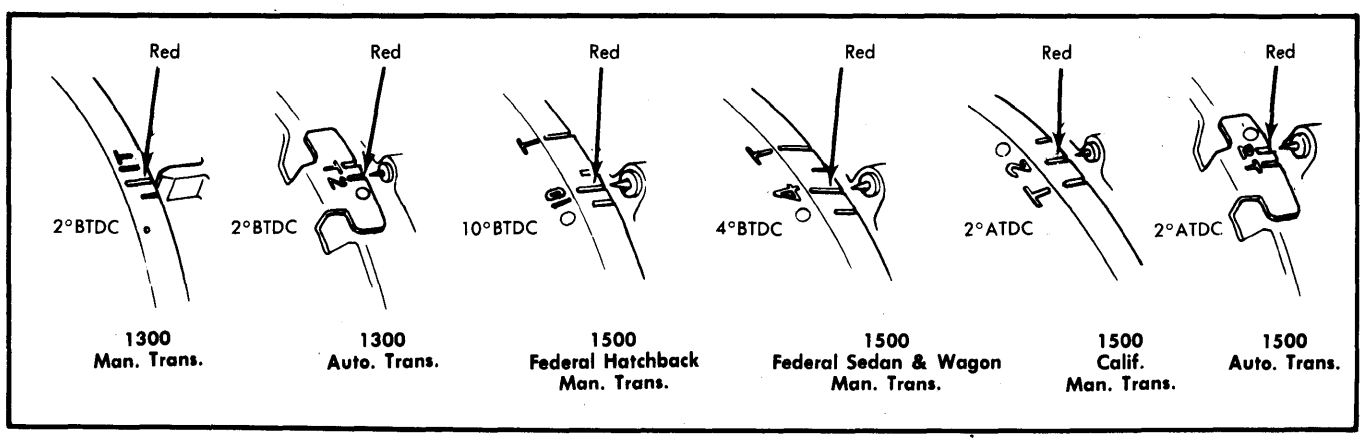

Fig. 3 Ignition Timing Mark Location (Civic 1300 & 1500)

TUNE-UP (Cont.)

Idle Speed & Enriched Speed

Application	Idle RPM	Enriched RPM
Accord & Prelude		
Man. Trans.	800	900
Auto. Trans.①	800	850
Civic		
Man. Trans.		
1300	800	925
1500	750	850
Auto. Trans.①	750	800

① — Transmission in Drive.

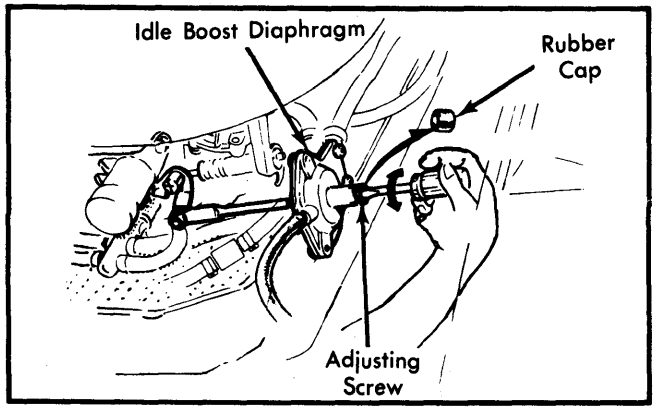

Fig. 4 Adjusting Idle Boost Diaphragm

COLD (FAST) IDLE RPM

All Models – 1) Connect tachometer to engine. Disconnect and plug vacuum hose to fast idle unloader. With the engine off, hold choke valve closed, then open and close throttle to engage fast idle cam.

2) Start engine, run one minute, and check idle. If not within specifications, adjust by turning fast idle screw.

Application	Fast Idle RPM Man. Trans.	Auto. Trans.
Accord & Prelude	2600	2700
Civic		
1300	3000	2850
1500		
Federal	3000	2800
Calif.	3200	2700

FUEL PUMP PRESSURE & VOLUME

Pressure	2.1-2.8 psi (.15-.20 kg/cm²)
Volume	
Accord & Prelude	.7 pts. in 30 sec.
Civic	.5 pts. in 30 sec.

EXHAUST EMISSION SYSTEMS

See EXHAUST EMISSION SYSTEMS section.

GENERAL SERVICING

IGNITION

DISTRIBUTOR

All models are equipped with Hitachi electronic ignition.

IGNITION COIL

Resistance Specifications (Ohms@68°F)

Application	Primary	Secondary
Accord & Prelude	1.06-1.24	7400-11,000
Civic	1.00-1.30	7400-11,000

FUEL SYSTEMS

CARBURETORS

Application	Model
All Models	Keihin 2-Bbl.

ELECTRICAL

BATTERY

Application	Amp. Hr. Rating
All	47

Battery Location – In engine compartment.

STARTER

Testing Specifications

Application	Volts	Amps	Test RPM
Accord & Prelude	11.5	90	3500
Civic			
Fed.	11.5	90	3000
Calif.			
Nippon.	11.0	50	5000
Hitachi	11.0	70	6000

GENERAL SERVICING (Cont.)

ALTERNATOR

All models are equipped with Nippondenso alternators.

Application	Rated Amp. Output
Accord & Prelude	50
Civic	45

ALTERNATOR REGULATOR

All models are equipped with Nippondenso alternator regulators with an operating voltage of 13.5-14.5 volts.

BELT ADJUSTMENT

All Models – Deflection of belt should be .5-.7" (12-17 mm) when 22 lbs. (10 kg) pressure is applied to belt midway between alternator and fan pulleys.

FILTERS

Filter	Service Interval (Miles)
Oil Filter	Replace every 7500
Air Filter	Replace every 30,000
Fuel Filter	Replace every 60,000

CAPACITIES

Application	Quantity
Crankcase (Including Filter)	
Accord & Prelude	4.2 qts.
Civic	3.6 qts.
Cooling System	
Civic 1300	5.6 qts.
All Others	6.4 qts.
Man. Transaxle (SAE 10W-40)	2.6 qts.
Auto. Transaxle (Dexron)	
Drain & Refill	2.6 qts.
Overhaul	5.2 qts.
Fuel Tank	
Accord & Prelude	13.2 gals.
Civic	
Hatchback & Wagon	10.8 gals.
Sedan	12.2 gals.