

TUNE-UP

Accord
Civic
Prelude

ENGINE IDENTIFICATION

Engine serial number is stamped on a machined surface at rear of engine, near starter. Engine serial number is preceded by engine model number. Model numbers are as follows:

Application	Model 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.

Compression Pressure @ 400 RPM

Application	Pressure
Accord & Prelude	128-156 psi (9-11 kg/cm ²)
Civic	
1300	128-156 psi (9-11 kg/cm ²)
1500	156-185 psi (11-13 kg/cm 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. (mkg)
Accord & Prelude		
Calif. Auto.	.039 (1.0)	17 (2.3)
All Others	.028 (.7)	17 (2.3)
Civic	.039 (1.0)	13 (1.8)

Spark Plug Type

Application	Nippondenso	NGK
Accord & Prelude		
Calif. Auto.		B7EB-11
All Others		B7EB
Civic		
1300	W20ES-L11	
1500		B7EB-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.

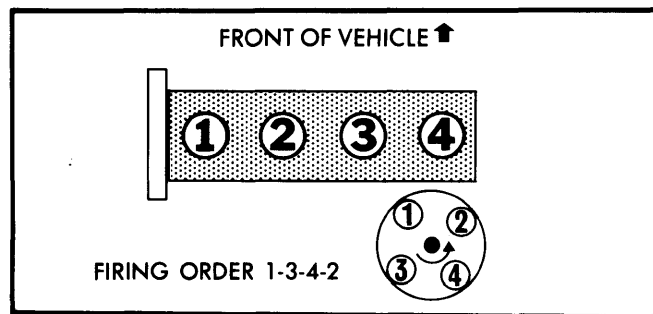


Fig. 1 Firing Order and Distributor Rotation (Accord, Civic and Prelude)

DISTRIBUTOR

All models are equipped with electronic breakerless ignition systems. California Accord and Prelude with automatic transmission use the same system as all Civic models. All other Accord and Prelude models use a different system, with igniter module mounted on firewall.

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.

TUNE-UP (Cont.)

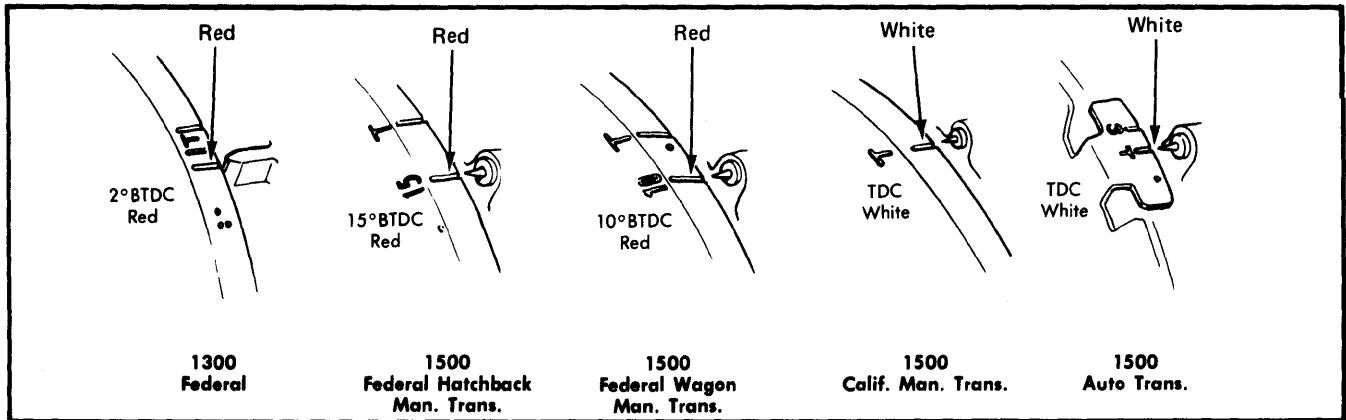


Fig. 2 Ignition Timing Mark Location (Civic 1300 & 1500)

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

Ignition Timing Specifications

Application	Man. Trans.	Auto. Trans.
Accord & Prelude	① TDC	TDC
Civic		
1300	2° BTDC	
1500		
Federal	② 15° BTDC	TDC
Calif.	TDC	TDC

- ① - Set Calif. 4-Dr. to 4° ATDC.
- ② - Set wagon to 10° BTDC.

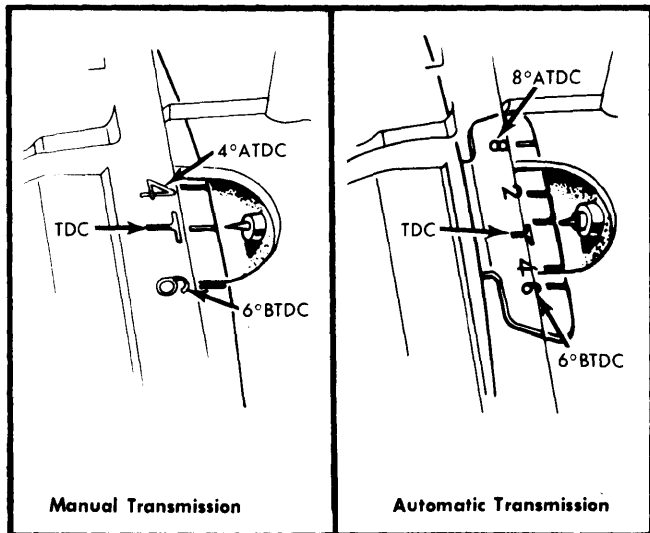


Fig. 3 Ignition Timing Mark Location (Accord & Prelude)

IDLE SPEED & MIXTURE

PROPANE ENRICHMENT PROCEDURE

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 by amount listed in table. If increase is not as specified, idle mixture must be adjusted. If peak RPM is below specification, lean out mixture. If above specification, enrich mixture.

NOTE - California and High Altitude vehicles have a shield over the mixture screw. Remove screw, swing tab out of the way, and use special tool 07974-6890200 to adjust mixture.

5) Turn mixture screw clockwise to increase RPM; counterclockwise to lower RPM. Run engine at 2500 RPM for 10 seconds to stabilize mixture, then test again. Repeat procedure until idle speed and increase are correct.

6) Remove propane equipment and reconnect vacuum hose to air cleaner hot air door. Recheck idle speed with air conditioning on, and adjust with idle boost diaphragm screw.

Idle Speed & Enriched Speed

Application	Idle RPM	Enriched RPM
Accord & Prelude		
Man. Trans.	800	870
Auto. Trans. ①	800	850
Civic		
1300	750	870
1500		
Man. Trans.	750	850
Auto. Trans. ①	750	800

- ① - With Auto. Trans. in Drive.

TUNE-UP (Cont.)

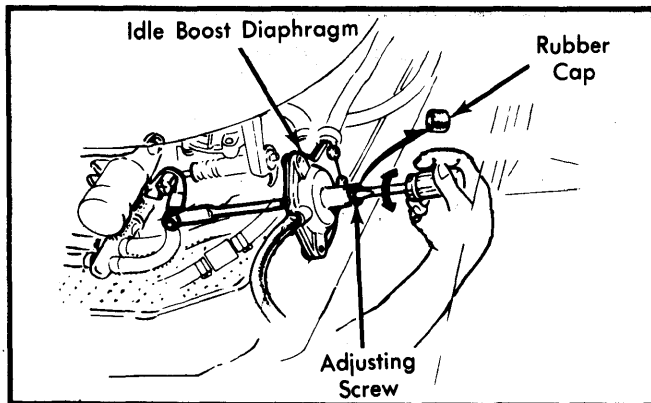


Fig. 4 Adjusting Idle Boost Diaphragm

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.

Fast Idle Speed

Application	RPM
Accord & Prelude	2000-3000
Civic	2500-3500

FUEL PUMP PRESSURE & VOLUME

Pressure	2-3 psi (.13-.18 kg/cm ²)
Volume	1.4 pts. in 30 sec.

EXHAUST EMISSION SYSTEMS

See EXHAUST EMISSION SYSTEMS section.

GENERAL SERVICING

IGNITION

DISTRIBUTOR

All models are equipped with Honda electronic ignition.

Other Data & Specifications - See Tune-Up article and appropriate article in DISTRIBUTORS & IGNITION SYSTEMS section.

IGNITION COIL

Coil Resistance (Ohms@68° F)

Application	Primary	Secondary
Accord & Prelude		
Calif. Auto.	1.06-1.24	7400-11,000
All Others	1.78-2.08	8800-13,200
Civic	1.00-1.30	7400-11,000

FUEL SYSTEMS

CARBURETORS

Application	Model
All Models	Keihin 2-Bbl.

Other Data & Specifications - See Tune-Up and Keihin Carburetors in FUEL SYSTEMS Section.

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

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.

GENERAL SERVICING (Cont.)

FILTERS

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

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.

CAPACITIES

Application	Quantity
Crankcase (Including Filter)	
Accord & Prelude	3.8 qts.
Civic	3.2 qts.
Cooling	
Civic 1300	5.2 qts.
All Others	6.4 qts.
Man. Transaxle (SAE 10W-40)	2.5 qts.
Auto. Transaxle (Dexron II)	
Drain & Refill	2.6 qts.
Overhaul	①5.2 qts.
Fuel Tank	
Accord & Prelude	13.2 gals.
Civic	10.8 gals.
① — Hondamatic 2-Spd., 4.4 qts.	