

2004 SPECIFICATIONS

TSX

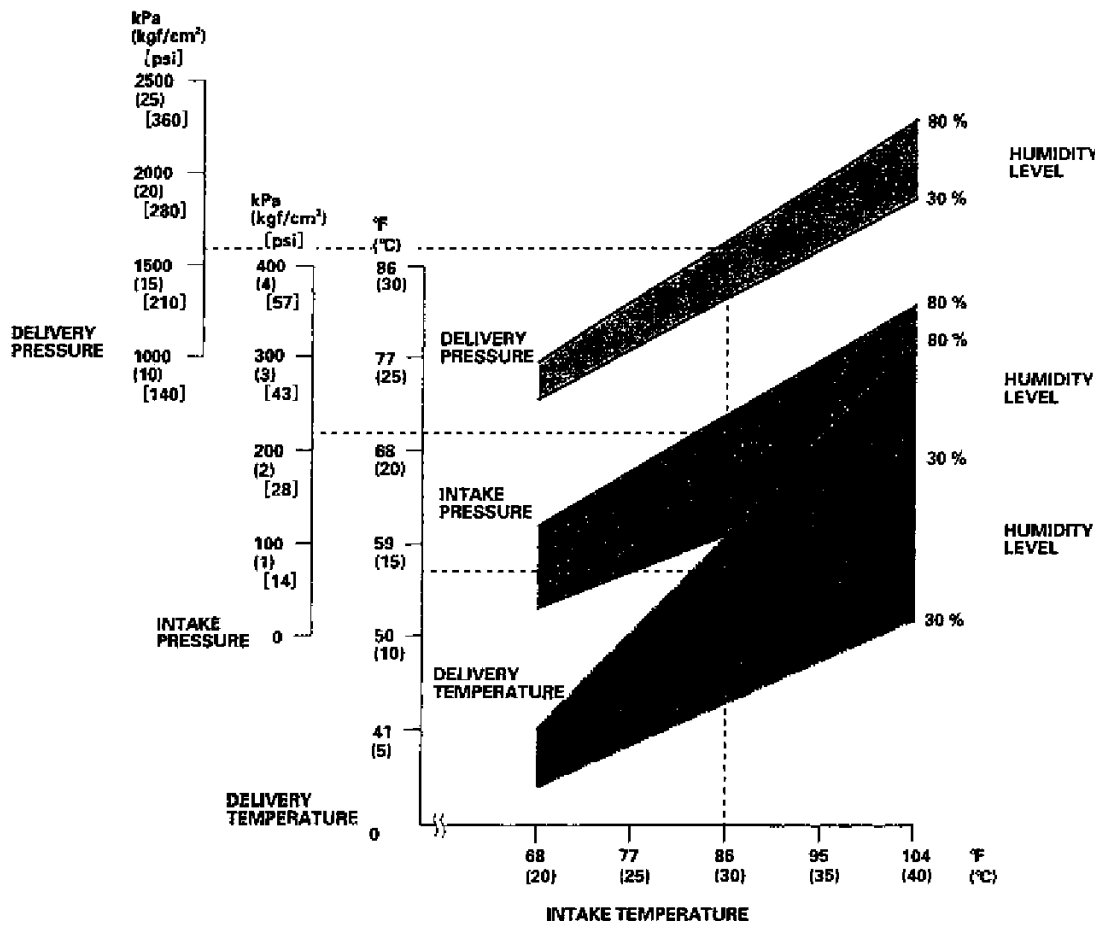
AIR CONDITIONING

AUTOMATIC SYSTEM

Air Conditioning Service Specifications

AIR CONDITIONING SPECIFICATIONS

Application	Specification
Compressor Type	N/A
Refrigerant Oil ⁽¹⁾	
Compressor Oil Capacity	4.3-5 ozs.
Condenser Oil Capacity	.83 ozs.
Evaporator Oil Capacity	1.5 ozs.
Line & Hose Capacity	.33 ozs.
Receiver/Drier Oil Capacity	.33 ozs.
Refrigerant (R-134a) Capacity	17.6-19.4 ozs.
System Operating Pressures	(2)
(1) Use DENSO: ND-Oil 8 (Part No. 38897-PR7-A01AH or 38899-PR7-A01).	
(2) See Fig. 1 .	



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Fig. 1: Identifying A/C System Operating Pressures
 Courtesy of AMERICAN HONDA MOTOR CO., INC.

Air Conditioning Torque Specifications

AIR CONDITIONING TORQUE SPECIFICATIONS

Application	Ft. Lbs. (N.m)
Compressor-To-Bracket Bolts	16 (22)
Compressor Bracket-To-Engine Block Bolts	33 (44)
Compressor Clutch Center Bolt	13 (18)
INCH Lbs. (N.m)	
A/C Line-To-Condenser Nut	89 (10)
A/C Line-To-Evaporator Nut	89 (10)
Blower Unit Nuts	89 (10)
Compressor Relief Valve	89 (10)
Condenser Bolts	89 (10)
Discharge Hose-To-Compressor Bolt	89 (10)

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Discharge Hose-To-Condenser Bolt	89 (10)
Discharge Line-To-Compressor Nut	89 (10)
Discharge Line-To-Condenser Bolt	89 (10)
Fan Shroud Bolts	89 (10)
Heater Unit Nuts	
6 mm	87 (9.8)
8 mm	115 (13)
Radiator Bracket Bolts	89 (10)
Receiver Line-To-Condenser Bolt	89 (10)
Receiver Line & Suction Line-To-Evaporator Bolt	89 (10)
Suction Line-To-Compressor Bolt	89 (10)

BATTERY

Battery Service Specifications

BATTERY SERVICE SPECIFICATIONS

Application	Specification
Capacity	65 AH/20 HR
Battery Load Test	
Remove Surface Charge (15 Seconds)	300 Amps
Load Test (15 Seconds)	280 Amps

BRAKES

BLEEDING SEQUENCE

Start at the left front wheel, then proceed to the right front wheel, right rear wheel and finally, the left rear wheel.

DISC BRAKES

Disc Brake Service Specifications

DISC BRAKE SPECIFICATIONS

Application	In. (mm)
Brake Pad Thickness	
Front	.41-.45 (10.5-11.5)
Rear	.35-.36 (8.9-9.1)
Service Limit	.06 (1.6)
Maximum Runout	.004 (.1)
Standard Disc Thickness	
Front	1.10-1.11 (27.9-28.1)

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Rear	.35-.36 (8.9-9.1)
Maximum Disc Refinish Thickness	
Front	1.02 (26)
Rear	.31 (8)
Parallelism	.0006 (.015)

Disc Brake Torque Specifications**DISC BRAKE TORQUE SPECIFICATIONS**

Application	Ft. Lbs. (N.m)
Brake Booster Push Rod Lock Nut	13 (18)
Brake Booster Mounting Nut	10 (13)
Brakeline-To-VSA Modulator	11 (15)
Brakeline-To-Flex Hose	11 (15)
Brakeline-To-Master Cylinder	11 (15)
Brakeline-To-Proportioning Valve	11 (15)
Caliper Body Mounting Bolt	
Front	36 (49)
Rear	17 (23)
Caliper Mount Bracket Bolt	
Front	80 (108)
Rear	28 (38)
Flex Hose-To-Caliper Banjo Bolt	25 (34)
Master Cylinder Mounting Nut	11 (15)
Parking Brake Cable Mounting Bolt	16 (22)
Parking Brake Lever Bolt	16 (22)
Rear Caliper Arm Bolt	18 (25)
Rear Caliper Parking Brake Nut	20 (27)
Rear Hub Bearing Unit Bolt	16 (22)
Rear Spindle Nut	134 (181)
Strut Brace Nut	16 (22)
Wheel Lug Nut	80 (108)
INCH Lbs. (N.m)	
Accelerator Pedal Position Sensor Mounting Bolt	89 (10)
Brake Bleed Screw	80 (9)
Brake Disc Retaining Screw	89 (10)
Cable Clamp Bolt	89 (10)
Flange-To-Damper Bolt	106 (12)
Underhood Fuse/Relay Box Bolt	89 (10)

CHARGING SYSTEM

GENERATOR**Generator Service Specifications****GENERATOR SPECIFICATIONS**

Application	Specification
Brush Length	
Standard	.75" (19.0 mm)
Limit (Minimum)	.20" (5.0 mm)
Rotor Resistance	1.84 - 2.10 ohms
Output ⁽¹⁾	90A
(1) Output at 13.5 V and normal engine temperature.	

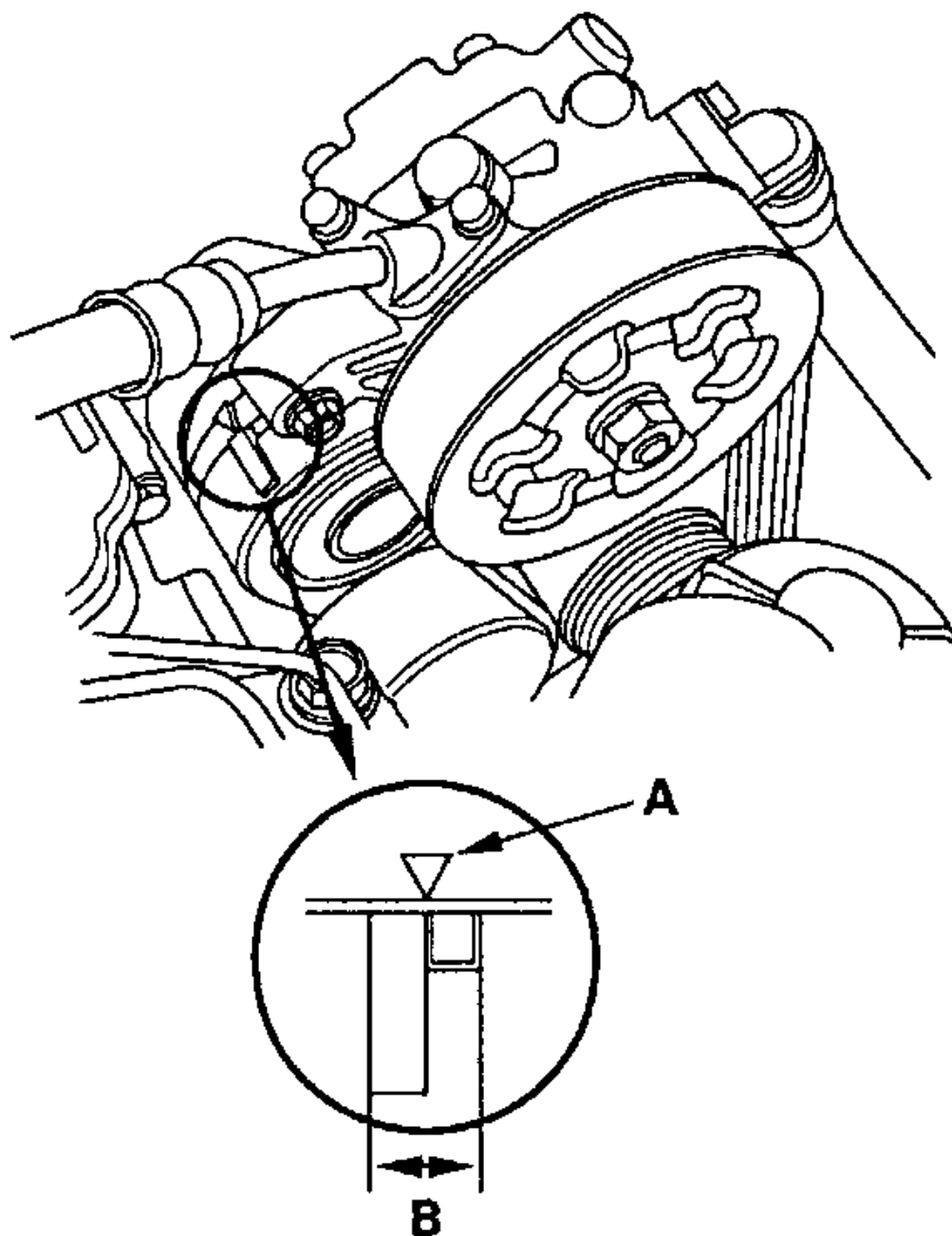
Generator Torque Specifications**GENERATOR TORQUE SPECIFICATIONS**

Application	Ft. Lbs. (N.m)
Alternator Bolt	16 (22)
Drive Belt Auto Tensioner Bolt	16 (22)
Power Steering Pump Bolt	16 (22)
Pulley Bolt	81(110)
Tensioner Pulley Bolt	41 (56)
	INCH Lbs. (N.m)
Alternator Wiring Locknut/Bolt	71 (8)

DRIVE BELTS**A/C COMPRESSOR, ALTERNATOR BELT & POWER STEERING BELT ADJUSTMENT**

Drive belt adjustment is not required as TSX is equipped with an automatic drive belt tensioner.

1. Inspect the belt for cracks and damage. If the belt is cracked or damaged, replace it.
2. Check that the auto-tensioner indicator (A) is within the standard range (B). See **Fig. 2** . If it is out of the standard range, replace the drive belt.



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Fig. 2: Identifying A/C Compressor/Alternator Belt Tensioner
Courtesy of AMERICAN HONDA MOTOR CO., INC.

DRIVE BELT ROUTING

Information not available from manufacturer.

ENGINE COOLING**SERVICE****Cooling System Specifications****COOLING SYSTEM SPECIFICATIONS**

Model	Specification
Coolant Replacement Interval	120,000 Miles ⁽¹⁾
Coolant Capacity	
A/T	5.6 Qts. 5.3 L)
M/T	5.7 Qts. (5.4 L)
Pressure Cap Opens	14-18 psi (93-123 kPa)
Thermostat Opens	
Starts	169-176° F (76-80° C)
Fully Open	194° F (90° C)
(1) Replace after 10 years.	

FUEL SYSTEM**FUEL PRESSURE****Fuel Pressure Specifications****FUEL PRESSURE SPECIFICATION**

Condition	Specification
At Idle	48-55 psi (3.4-3.9 kg/cm ²)

IDLE SPEED**IDLE SPEED SPECIFICATION**

Condition	Specification
Transmission	
A/T	750-850 RPM
M/T	700-800 RPM

IGNITION SYSTEM**FIRING ORDER**

Illustrations

To identify firing order, see **Fig. 3** .

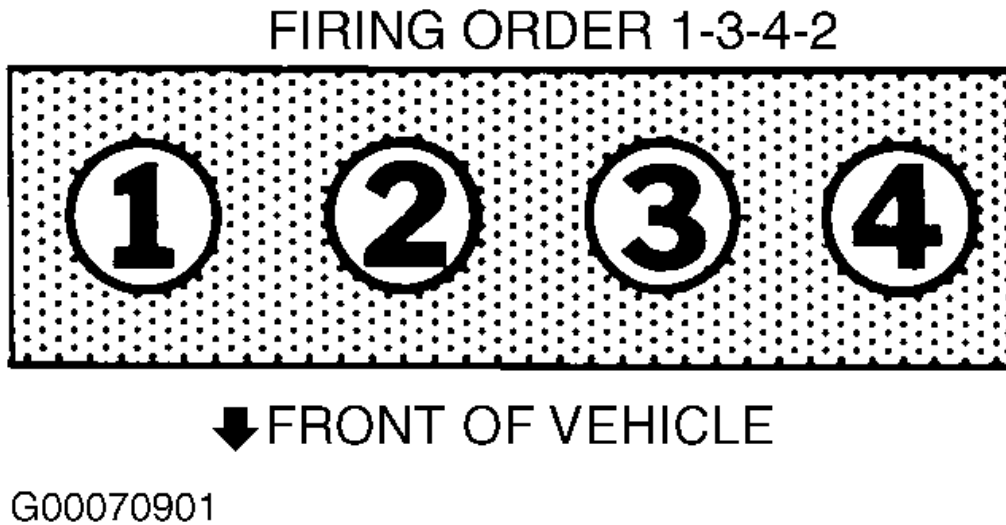
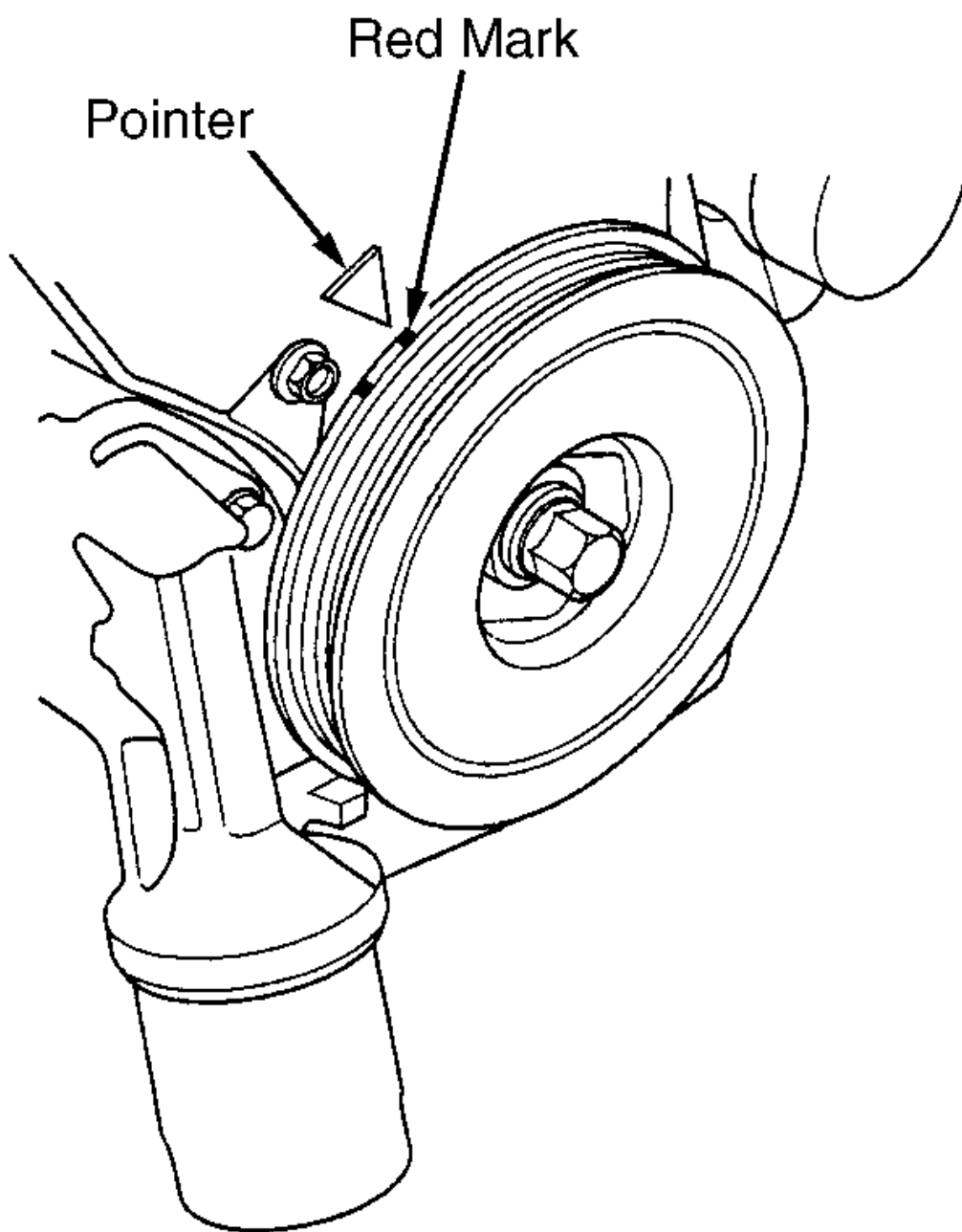


Fig. 3: Firing Order

Courtesy of AMERICAN HONDA MOTOR CO., INC.

IGNITION TIMING

Check ignition timing in no-load condition (headlights, blower fan, rear defogger and A/C off) with M/T in Neutral or A/T in Neutral or Park. Connect scan tool to 16-pin Data Link Connector (DLC) before checking timing. Ensure idle speed and ignition timing are set to 6-10° BTDC (Red mark). See **IDLE SPEED SPECIFICATION** table. For timing mark identification, refer to illustration. See **Fig. 4** .



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Fig. 4: Identifying Ignition Timing Mark

Courtesy of AMERICAN HONDA MOTOR CO., INC.

SPARK PLUGS**All Specifications****SPARK PLUG TYPE**

Application	Specification
Nippondenso	SKJ20DR-M11
NGK	IZFR6K-11

SPARK PLUG SPECIFICATIONS

Application	Specification
Standard (NEW) Gap ⁽¹⁾	.039-.043 In. (1.0-1.1 mm)
Torque	13 Ft. lbs. (18 N.m)
(1) DO NOT adjust gap on platinum spark plugs. If adjustment is required, replace with NEW platinum spark plug.	

STARTING SYSTEM**STARTER****Starting System Service Specifications****CRANKING TEST SPECIFICATIONS**

Minimum Cranking Volts	Maximum Current Draw (Amps)
8.5	380

STARTER NO-LOAD TEST SPECIFICATIONS

Maximum Amps	Minimum RPM
80	2600

STARTER PERFORMANCE TEST SPECIFICATIONS

Application	⁽¹⁾ Maximum Amps @ Minimum RPM
Starter	80 @ 2300
(1) Battery voltage must stay at 11.5 volts or more during test.	

STARTER SPECIFICATIONS

Application	Specification
Brush Length	
Standard	.44 -.45" (11.1- 11.5 mm)
Minimum	.17" (4.3 mm)
Commutator Diameter	
Standard	1.102-1.106" (28.0-28.1 mm)

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Minimum	1.083" (27.5)
Commutator Mica Depth	
Standard	.016-.020" (.40-.50 mm)
Minimum	.006" (.15 mm)
Commutator Runout	
Standard	.001" (.02 mm)
Minimum	.002" (.05 mm)

Starting System Torque Specifications

STARTING SYSTEM TORQUE SPECIFICATIONS

Application	Ft. Lbs. (N.m)
Starter Bolts (12 x 1.25 mm)	47 (64)
Starter Mounting Bolts (10 x 1.25 mm)	33 (44)
INCH Lbs. (N.m)	
Starter Cable Nut	80 (9)

WHEEL ALIGNMENT

WHEEL ALIGNMENT SPECIFICATIONS

Wheel Alignment Service Specifications

For wheel alignment service specifications, see **WHEEL ALIGNMENT SPECIFICATIONS** in SPECIFICATIONS & PROCEDURES article in WHEEL ALIGNMENT.

Wheel Alignment Torque Specifications

For wheel alignment torque specifications, see **TORQUE SPECIFICATIONS** in SPECIFICATIONS & PROCEDURES article in WHEEL ALIGNMENT.