

TOYOTA

SERVICE BULLETIN

TOYOTA MOTOR SALES, U.S.A., INC.

VOLUME

9

REFERENCE	PRODUCT GENERAL INFORMATION
NUMBER	003 REVISED
DATE	10-23-87
MODEL	1988 MODELS

Page 1 of 13

1988 NEW CAR PRE-DELIVERY SERVICE

NEW PDS FORM NON-PARTS # (00408-02008) AND NEW REQUIREMENTS

- We are introducing a new revised PDS form with fewer Item Numbers for 1988 models.
- Since both the condition of the vehicle at the time of delivery and the way it's delivered greatly influence customer satisfaction, proper use of the PDS form will help create a positive image for your dealership.

FIRST PAGE

- The first page of the two-part form remains substantially unchanged from the previous form with the exception of:
 - A location has been added for the dealership name.
 - New signature lines have been added for the Service Manager and technician, with a statement to your customer indicating their personal commitment to ensuring a complete PDS of the new vehicle.
- After completing page two of the form, the seven pre-delivery preparation boxes on page one should be checked off and both the technician and the Service Manager must sign the form and print their names on the lines indicated for this purpose.

SECOND PAGE

- The inspection procedures on the second page of the PDS form have been redesigned with a significant reduction in the number of individual check items.
- Perform and check off every inspection item on the second page of the form, including the road test and final inspection.

1988 NEW CAR PRE-DELIVERY SERVICE (Cont'd)

SECOND PAGE (Cont'd)

- When the PDS is performed by a qualified technician, the correct box must be checked off to indicate one of the following:

Box 1 OK – The indicated item(s) checked OK and no additional operation was required.

Box 2 Adjust/Add – A minor correction was performed or an addition such as fluid was required.

Box 3 Repair/Replace – A corrective operation was necessary, requiring a repair and/or replacement.

Explanation If an adjustment, addition, repair or replacement was required, briefly explain what was done on the line to the right of the boxes checked.

Note: The items marked with an asterisk –*– indicate optional equipment that may or may not be on some models.

COMPLETED PDS FORM

- The salesperson should then go over the form with the customer – informing him or her of the pre-delivery service performed. Then the salesperson and the customer should both sign the form.

Note: The salesperson should also make sure that the Dealer or General Manager has signed the form.

- The first or top page of the completed and signed form should be given to the customer. The second page must be kept in the dealer file.

This process shows your customers that your entire dealership staff wants them to be fully satisfied. It demonstrates a collective effort to treat customers with an extra special touch – THE TOYOTA TOUCH!

USE OF 1988 FORMS ONLY

- The new 1988 PDS form Non-Parts #00408-02008 must be used for all 1988 models.
- Please discard any of the previous 1988 PDS forms (00408-02007) once you receive the new revised forms mentioned in this bulletin.

1988 NEW CAR PRE-DELIVERY SERVICE (Cont'd)**ORDERING INFORMATION**

- Reordering information is printed on the bottom right corner of the first page of the PDS form.
- Additional forms can be ordered through the NON-PARTS ordering system. When ordering, keep in mind that forms (00408-02008) come in packages of 100 forms each. For large volume dealers, Toyota accepts a maximum of 20 packages for additional supply per order.

WARRANTY POLICY

- If additional repairs or adjustments are noted during the pre-delivery service, the required service should be performed under warranty and reimbursement should be requested via regular warranty claim channels.
- The 1988 Warranty Policy and Procedure Manual requires that you maintain the original copy of completed PDS forms in the customer file. If you cannot produce a completed form for each vehicle retailed, upon TMS and/or Region/Distributor audit, the PDS payment amount will be subject to debit.

1988 NEW CAR PRE-DELIVERY SERVICE (Cont'd)

1988 FLAT RATE TIME (HR)

Passenger Cars

AREA	MODEL	AL	EL	AE (3)	(4) FWD AW	(5) ST	(6) MA	SV	MX
General Area (1)		0.9	0.9	0.9	1.0	0.9	1.0	1.0	0.9
High Altitude Areas (2)		1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.0

- FWD = Front Wheel Drive
- RWD = Rear Wheel Drive

Commercial Models

AREA	MODEL	(7) YR	(8) RN	FJ	VZN
General Area (1)		0.9	0.9	0.9	0.9
High Altitude Areas (2)		1.5	1.0	0.9	1.0

- (1) General Area Vehicles operating below 4,000 feet
- (2) High Altitude Areas Vehicles operating above 4,000 feet in specified counties (see attached listing)
- (3) Including FX models
- (4) AW Time Includes Spoiler and Diffuser Installation
- (5) Convertible models – Add 0.2 hour
- (6) MA Time Includes Spoiler Installation
- (7) Including both Van and Cargo Van models
- (8) Including 4WD and 4Runner models

NOTE: The ST and SV ALLTRAC flat rate times are the same as that for standard models.

1988 NEW CAR PRE-DELIVERY SERVICE (Cont'd)

A. VEHICLE EXTERIOR

- A01 Inspect Paint Finish for Rust, Dents, Scratches, etc.
- A02 Inspect Exterior Body Parts for Installation, Damage, Rust, Alignment, etc.
- A03 Hood, Deck lid, Back door, Fuel Door Operation
- A04 Door Lock System and Door Lamp Operation

INSPECTION

- Inspect for any abnormal condition, operation, loose or missing parts.

B. VEHICLE INTERIOR

- B01 Inspect All Interior Parts for Dirt, Damage, Fit, Alignment, etc.
- B02 Seats, Seat Belt Operation

- B03 Window Regulator Operation
- B04 Inspect Carpet Fit/Alignment

INSPECTION

- Inspect for any abnormal condition, operation, loose or missing parts.
- For Supra and Convertible models, pass the shoulder belt through the seat belt hanger and inspect for normal operation and latching.

C. UNDERHOOD

- C01 Engine Oil Level Check
- C02 Brake & Clutch Fluid Level Check*
- C03 Power Steering Fluid Level Check*
- C04 Coolant and Washer Fluid Level Check
- C05 Battery Terminal Tightness
- C06 Wiring and Hose Condition

INSPECTION

- Inspect dipsticks or visually inspect see through reservoirs.

- Inspect connections and condition as required.

* Inspect or install when equipped

1988 NEW CAR PRE-DELIVERY SERVICE (Cont'd)

UNDERHOOD – ENGINE OPERATING

- Engine Operations
C07 Engine Cold
C08 During/After Warm-up

NOTE 1) VEHICLE EMISSION CONTROL INFORMATION LABEL

2) IDLE MIXTURE ADJUSTMENTS

INSPECTION

- Check engine operation while cold and after warm-up. (Check idle rpm, fast idle rpm, noise, engine vibration and rough idle, etc.)
If adjustments are required, always refer to VEHICLE EMISSION CONTROL INFORMATION LABEL AND/OR ENGINE REPAIR MANUAL.
- The Emission Control Information Label is always located on the underside of the hood, except Camry, Van and FJ models
 - The label for Camry is placed on the cowl panel.
 - The label for Van is placed on the floor panel under the driver's seat.
 - The label for FJ is placed on the cowl panel.
- The information on the label will vary with each model and engine specification.
- Do not attempt to adjust idle mixture setting, as it is preset and sealed at the factory.

* Inspect or install when equipped

1988 NEW CAR PRE-DELIVERY SERVICE (Cont'd)

C. UNDERHOOD (Cont'd)

INSPECTION

- | | |
|---|--|
| <p>C09 High altitude inspection and/or adjustments.* High altitude areas (Federally designated high altitude counties are listed on page 12)</p> <p>C10 Inspect for fuel, oil, coolant, or other fluid leaks</p> <p>C11 Inspect automatic transmission fluid level*</p> | <p>Inspect the following items after warm-up using a tachometer and timing light according to the VEHICLE EMISSION CONTROL INFORMATION LABEL.</p> <ul style="list-style-type: none"> ○ Ignition Timing ○ Idle RPM ○ Fast Idle RPM ○ Throttle Positioner RPM <ul style="list-style-type: none"> ○ Check fluid level and look for fuel, oil, coolant or fluid leaks under the hood. ○ Inspect ATF levels on the dipstick with engine idling and transmission at operating temperature. |
|---|--|

D. LUGGAGE COMPARTMENT

INSPECTION

- | | |
|--|--|
| <p>D01 Light Operation</p> <p>D02 Trim Appearance/Trunk Mat Fit</p> <p>D03 Spare Tire Pressure Check</p> | <ul style="list-style-type: none"> ○ Visually inspect for any abnormal conditions |
|--|--|

E. UNDER VEHICLE (ON HOIST)

INSPECTION

- | | |
|---|--|
| <p>E01 Remove Disc Brake Anti-Rust Covers</p> <p>E02 Inspect for Fuel, Oil, Coolant, or Other Fluid Leaks</p> <p>E03 Install Rubber Body Plugs*</p> <p>E04 Check Wheel Lug Nut Torque</p> | <ul style="list-style-type: none"> ○ Remove brake disc anti-rust covers and check for rust. Except FX models. ○ Visually inspect for coolant, fuel, oil (engine, transmission, rear axle) and other fluid leaks. ○ Install the 2 rubber plugs provided in the glove box into the torque box holes. ○ Torque Specification – All Models |
|---|--|

900 to 1200 kg-cm
(66 to 86 ft-lb)
(88 to 118 Nm)

* Inspect or install when equipped

1988 NEW CAR PRE-DELIVERY SERVICE (Cont'd)

E. UNDER VEHICLE (ON HOIST) (Cont'd)

- E05 Wheel Covers/Caps Installation
- E06 Inspect Tires for Defects or Damage/Adjust Air Pressure

RECOMMENDED TIRE AIR PRESSURE

Tire pressure must be checked "cold," meaning the car must not have been driven for at least three hours.

All Toyota Passenger Cars

- | | | |
|------------------|----|----------------------------------|
| 1. All 4 wheels | -- | 26 psi (1.8 kg/cm ²) |
| 2. Regular spare | -- | 30 psi (2.1 kg/cm ²) |
| 3. Compact spare | -- | 60 psi (4.2 kg/cm ²) |

The recommended tires and inflation pressure may change according to tire size and driving conditions. For precise recommendations and more information, refer to the tire information label inside the glove compartment door or to the Owner's Manual.

Land Cruisers, Pickups and Vans (Tire Air Pressure)

The recommended tires and inflation pressure information changes with tire sizes, driving conditions and vehicle models. For precise tire pressure, refer to the Owner's Manual and tire information label normally placed inside of the glove compartment door.

- E07 Inspect Transmission/Transaxle/
Differential Lubricant Levels*
- E08 Install Front Spoiler, Mudguards
and/or Tailpipe Diffusers as Re-
quired*
 - AW and MA models are shipped with the spoiler removed to avoid shipping damage. Installation labor is included in the PDS time.
 - AW with supercharged engine model is shipped with tailpipe diffusers removed to avoid shipping damage. Installation labor is included in the PDS time.

* Inspect or install when equipped

1988 NEW CAR PRE-DELIVERY SERVICE (Cont'd)

F. ROAD TEST (Cont'd)

VEHICLE OPERATION (Cont'd)

F15 Engine Operation

F16 Clutch and Transmission Operation

F17 Brake and Parking Brake Function

F18 Steering Off-center and Operation

F19 Inspect for any Abnormal Noise or Vibration

F20 Inspect for Squeaks and Rattles

INSPECTION

- Check engine performance over a broad range of driving conditions including:
 - Idle quality, acceleration, cruise and deceleration
 - Ensure that engine performance is normal, smooth and responsive.
- Clutch: Inspect clutch pedal freeplay, height and reserve stroke after disengagement. Check clutch engagement, disengagement, chatter and noise.
- Transmission
 Manual transmission:
 - Check shift lever operation, noise, etc.
 Automatic transmission:
 - Check shifting operation in each range, and neutral start switch.
- Check brake operation and inspect brake pedal for freeplay, height and reserve height when depressed.
- Check brake function, noise, parking brake indicator light function.
- Check for steering wheel off-center and turning operation.
- Check for abnormal noise from suspension.
- Check Exhaust System for leaks.
- Inspect for abnormal noises from body or interior.

* Inspect or install when equipped

1988 NEW CAR PRE-DELIVERY SERVICE (Cont'd)

G. FINAL INSPECTION

G01 Remove Interior Protective Covers/
Remove Unnecessary Labels, Tags,
Stickers, etc.

G02 Install in Glove Compartment Owner's
Manual/Owner's Guide/Tire Warrant-
ty/Audio system Guide

Convertible Owner's manual
supplement**

G03 Spare Wheel, Jack and Tool
Installation

G04 Wash and Clean Vehicle

INSPECTION

- Remove plastic covers from side panels, seats, head-restraint and sunvisors as required.
- Also remove caution labels and other tags, labels as required.
- Make sure that Owner's Manual, Owner's Guide, Tire Warranty, Radio/Audio system guide, etc., are placed in the appropriate location.
- Include CONVERTIBLE OWNER'S MANUAL SUPPLEMENT as required.
- Make sure they are installed correctly.
- Thoroughly clean the vehicle's interior and exterior to present the best possible image.

* Inspect or install when equipped

1988 NEW CAR PRE-DELIVERY SERVICE (Cont'd)

The following counties have been designated High Altitude by the Federal EPA. If a vehicle is to be used principally within this area, follow the high altitude (above 4,000 ft) vehicle inspection instructions of this bulletin.

State of Colorado

Adams	Kit Carson
Alamosa	Lake
Arapahoe	La Plata
Archuleta	Larimar
Boulder	Las Animas
Chaffee	Lincoln
Cheyenne	Mesa
Clear Creek	Mineral
Conejos	Moffat
Costilla	Montezuma
Crowley	Montrose
Custer	Morgan
Delta	Otero
Denver	Ouray
Dolores	Park
Douglas	Pitkin
Eagle	Pueblo
Elbert	Rio Blanco
El Paso	Rio Grande
Fremont	Routt
Garfield	Saguache
Gilpin	San Juan
Grand	San Miguel
Gunnison	Summit
Hinsdale	Teller
Huerfano	Washington
Jackson	Weld
Jefferson	

State of Nevada

Carson City	Lyon
Douglas	Mineral
Elko	Nye
Esmeralda	Pershing
Eureka	Storey
Humboldt	Washoe
Lander	White Pine
Lincoln	

State of New Mexico

Bernalillo	Moro
Cantron	Rio Arriba
Colfax	Roosevelt
Curry	Sandoval
De Baca	San Juan
Grant	San Miguel
Guadalupe	Santa Fe
Harding	Sierra
Hidalgo	Socorro
Lincoln	Taos
Los Alamos	Torrance
Luna	Union
McKinley	Valancia
Otero	

State of Utah

Beaver	Morgan
Box Elder	Piute
Cache	Rich
Carbon	Salt Lake
Daggett	San Juan
Davis	Sanpete
Duchesne	Savier
Emery	Summit
Garfield	Tooele
Grand	Uintah
Iron	Utah
Juab	Wasatch
Kane	Wayne
Millard	Weber

1988 NEW CAR PRE-DELIVERY SERVICE (Cont'd)

1987 MODEL PRE-DELIVERY INSPECTION SPECIFICATION

MODEL	ENGINE	EMISSION	T/M	POWER STEERING	IDLE RPM	F/IDLE RPM	T/P RPM	VALVE CLEARANCE		CYLINDER HEAD BOLTS ENGINE COLD
								INTAKE ENGINE HOT	EXHAUST	
AL	3A-C		5/6M/T	w/o	650	3000	1400	0.20mm (.008")	0.30mm (.012")	600 kg-cm (43 ft-lb)
				with	800	3000	1400	0.20mm	0.30mm	600 kg-cm
			A/T	w/o	800	3000	1400	0.20mm	0.30mm	600 kg-cm
				with	900	3000	1400	0.20mm	0.30mm	600 kg-cm
EL	3E		M/T	-	700	3000	1100	0.20mm (.008")	0.20mm (.008")	1. 300 kg-cm (22 ft-lb)
			A/T	-	900	2800	1100	0.20mm	0.20mm	2. +500 kg-cm (36 ft-lb)
										3. +90 (1/4 turn)
AE/FX	4A-LC	All	M/T	-	650	3000	800	0.20mm (.008")	0.30mm (.012")	600 kg-cm (43 ft-lb)
			A/T	-	750	3000	900	0.20mm	0.30mm	600 kg-cm
AE	4A-F	All	M/T	-	650	3000	900	ENGINE COLD	.20/.30mm	610 kg-cm (44 ft-lb)
			A/T	-	750	3000	900	.15/.25mm	.20/.30mm	610 kg-cm
								(.006/.010")	(.008/.012")	
AE & AW	4A-GE	All	All	-	800	-	-	.15/.25mm	.20/.30mm	610 kg-cm (44 ft-lb)
			All	-	-	-	-	(.006/.010")	(.008/.012")	610 kg-cm
AW	4A-GZE	All	All	-	-	-	-	.15/.25mm	.20/.30	300 kg-cm + 90° + 90°
								(.006/.010")	(.008/.012")	(22 ft-lb)
ST & SV	3S-FE	All	All	-	700	-	-	.19/.29mm	.28/.38mm	650 kg-cm (47 ft-lb)
								(.007/.011")	(.011/.015")	
ST & SV	3S-GE	All	All	-	750	-	-	.15/.25mm	.20/.30mm	550 kg-cm (40 ft-lb)
								(.006/.010")	(.008/.012")	
ST (AWD)	3S-GTE	All	All	-	-	-	-	.15/.25mm	.20/.30mm	550 kg-cm + 90°
								(.006/.010")	(.008/.012")	(40 ft-lb)
MA	7M-GE 7M-GTE	All	All	-	-	-	-	0.15/0.25mm (.006/.010")	0.20/0.30mm (.008/.012")	800 kg-cm (58 ft-lb)
MX	5M-GE	All	All	-	-	-	-	-	-	800 kg-cm (58 ft-lb)
YR	4Y-E		M/T	-	700	-	-	-	-	900 kg-cm (65 ft-lb)
			A/T	-	750	-	-	-	-	(For 14mm bolt head)
										195 kg-cm (14 ft-lb)
										(For 12mm bolt head)
RN	22R 22R-E 22R-TE	All	M/T	-	700	3000*	-	ENGINE HOT	0.30mm (.012")	800 kg-cm (58 ft-lb)
			All	-	750	-	-	0.20mm (.008")	0.30mm	800 kg-cm
			All	-	800	-	-	0.20mm	0.30mm	800 kg-cm
VZN	SVZ-E	All	All	-	800	-	2000	ENGINE COLD	.27/.37mm	450 kg-cm (33 ft-lb)
								(.001/.014")	(.011/.015")	+90 (1/4 turn) +90 (1/4 turn)
										380 kg-cm (27 ft-lb)
										for 14mm bolts
FJ	3F-E	All	All	-	-	-	-	ENGINE COLD	0.35mm	1250 kg-cm
								(.008")	(.014")	(90 ft-lb)

*2600 RPM for California spec. only