#### \* SYMPTOM CHECK LIST \*

#### 1990 Nissan 240SX

SYMPTOM CHECK LIST WORKSHEETS

#### \* PLEASE READ THIS FIRST \*

NOTE: This article is intended for general information purposes only. It does not apply specifically to one make or model.

#### **PURPOSE**

Why Use the Symptom Check List Worksheets? One of the most difficult and critical lines of communication is between the service customer and the technician. The clearer the technician understands the customer's concerns, the more likely the problem will be "fixed right the first time".

The Symptom Check List Worksheets in this article are designed to improve this communication. When used consistently, they can be helpful in reducing shop comebacks, increasing technician productivity, and producing satisfied customers. They also provide other benefits:

- Reduce "No Trouble Found" problems
- Increase customer involvement
  Customer perceive that "they really care and listen"
- Save time during peak write-up periods
- \* Reduce recontacting customers for additional information
- \* Improve night drop information
- \* Insure all the right questions are asked at write-up

Making the Worksheets a Part of Your Normal Routine The following information contains ideas that may be helpful in forming habits that promote daily use of the Symptom Check Lists:

- \* HAVE THE SERVICE ADVISER FILL OUT THE FORM(S) WITH THE CUSTOMER WHENEVER POSSIBLE.
- \* Place them in your night drop for the customer to fill out, along with an instruction sheet to help them understand what to do.
- Hand out the worksheets to customers while they wait in line during the peak morning rush and ask them to  $\bar{\text{fill}}$  it out. It will save time for all concerned and improve the quality of information received from the customer.
- Make sure it is attached to the hard copy when it goes to the technician.
- Place a copy with the final repair papers and review it with the customer at delivery.
- Put a new worksheet in the glovebox of all departing customers.
- Require that you personally see a copy of all worksheets filled out for shop comebacks.
- \* Hold a shop meeting to get employee buy-in and their ideas on how to make it effective in your shop.

There are many other ways to utilize the concept, but as with every other idea, successful implementation depends on employee involvement and buy-in.

### SYMPTOM CHECK LIST WORKSHEETS

# CONDENSED VERSION - ALL ON ONE PAGE

NOTE: Have the service adviser fill out this form with the customer whenever possible.

DRIVEABILITY WORKSHEET  { To Be Filled Out By Vehicle Owner }						
Name:	Date: Make:					
Model:	Year: Engine: Mileage:					
FA	ULT CHARACTERISTICS - SYMPTOMS - DESCRIPTION OF PROBLEM ( Please Check All That Apply In All Categories )					
Starting Problems	Will Not Crank ☐ Cranks, But Won't Start ☐ Starts, But Takes A Long Time					
Engine Quits/ Running Problems	Quits:       ☐ Right After Starting       ☐ When Put Into Gear       ☐ Right After Vehicle Comes To A Stop         ☐ During Steady Speed Driving       ☐ While Idling       ☐ During Acceleration       ☐ When Parking					
Poor Idling Conditions	Idle Speed: Is Too Slow At All Times Is Too Slow With A/C On Is Too Fast Is Rough Or Uneven Fluctuates Up and Down					
Poor Running Conditions	Runs Rough					
Auto. Transmission Problems	☐ Improper Shifting ( early/late ) ☐ Changes Gear Randomly On Its Own ☐ Vehicle Does Not Move When In Gear					
Poor Handling	Pulls To One Side Hard Steering Vehicle Shakes and/or Vibrates While Moving					
Noise Problems	Explain:					
Odor Problems	Explain:					
Problem Frequency	☐ Always ☐ Often ☐ Occasionally					
Usually Occurs	☐ Morning ☐ Afternoon ☐ Anytime					
Engine Temp.	Cold Warm Hot					
Vehicle Speed	□ Low □ Cruising □ High					
Driving Conditions During Occurrence	Short - Less Than 2 Miles					
Driving Habits	□ Drive Hard Before Engine Is Warmed     □ Allow Engine To Warm       □ Mostly City Driving     □ Highway     □ Park Vehicle Inside     □ Outside       DrIve Per Day:     □ Less Than 10 Miles     □ 10-50     □ More Than 50       Fuel Octane:     □ 87     □ 89     □ 91     □ More Than 91       Brand:     □ Gasohol     □ Propane Conversion					
Outside Weather	□ Cold         □ Warm         □ Hot         □ Wet/Rainy         □ Fog           □ Snow/Hail         □ Dust/Dirt         □ Dry         □ Humid					

Fig. 1: Entire Vehicle - Symptom Check List For Customer

# FULL VERSION - ALL ON FOUR PAGES

NOTE: Have the service adviser fill out these forms with the

#### **Dear Valued Customer:**

Our goal is to fix your problem correctly and get you back on the road as soon as possible in the unlikely event you experience a problem with your vehicle. Help us identify the exact nature of the concern by taking a few moments to complete the appropriate section of this diagnostic worksheet. Thank you.

CUSTOMER NAME: PHONE NO.: REPAIR ORDER NO.:

# **DIAGNOSTIC WORKSHEET**

DRIVEABILITY - ENGINE - A	UTOMATIC TRANSMISSION		
SYMPTOM (CHECK ALL THAT APPLY) ENGINE	OPERATING CONDITIONS (CHECK ALL THAT APPLY) HOW OFTEN DOES IT OCCUR? (Engine and/or Transmission)		
□ "Service Engine Soon"/"Malfunction Indicator Light" on □ Hard start/no start (cranks OK) □ Won't crank □ Engine stalls □ Engine miss □ Miss while driving	□ Always       □ Few seconds       □ Few minutes         □ Few hours       □ Few days       □ Few weeks         □ Few months       □ Variable       □ Only during event         □ Every		
☐ Hesitates, stumbles or sags ☐ Rough idle	☐ Just started ☐ Getting better ☐ Getting worse ☐ Since new		
☐ Idle is too high ☐ Idle is too low ☐ Poor power/performance	WHEN DOES IT OCCUR? (Engine and/or Transmission) When Engine Temperature is:		
☐ Surge or chuggle, buck - jerk - skip ☐ Poor gas mileage ☐ Highway ☐ City ☐ Pings, detonates	☐ Cold ☐ Warm ☐ Hot☐ All the time ☐ Only during warmup		
□ Suphur, rotten egg odor □ Backfires (popping noise) - underhood/tailpipe □ Exhaust smoke □ Increased oil consumption □ Runs on after key is turned off □ Speed fluctuates without moving accelerator □ Engine noise (explain):	Weather Conditions:  ☐ Very cold - below 0 degrees F ☐ Cool - 32 to 60 degrees F ☐ Hot - Above 80 degrees F ☐ Raining ☐ Dry ☐ Humid ☐ Snow/Ice ☐ Wet roads ☐ Cold - 0 to 32 degrees F ☐ Warm - 60 to 80 degrees F ☐ Any environment ☐ Humid ☐ Other (explain below)		
(whine, rattle, groan, clunk, etc.)  Other:	Driving Conditions:  Light throttle		
TRANSMISSION  Does not shift properly Hard shift Will not shift Dun Down	☐ Anytime     ☐ Uphill     ☐ Downhill       ☐ Highway     ☐ City/town     ☐ Stop and go       ☐ Between     MPH and     MPH       ☐ Only with A/C or Defrost on     ☐ Only with A/C or Defrost on		
Will not shift	What Type of Fuel? What Brand?		
(whine, rattle, groan, clunk, buzz, etc.)  Shifts into gear too early Overdrive doesn't work with speed control, but is otherwise OK Highway speed - shudder, surge, etc.	When Gear Selector is in:  ☐ Park/Neutral ☐ Reverse ☐ Overdrive ☐ Drive/3 ☐ Drive/2 ☐ Drive/1		
EXPLAIN:	Between Gears:  Park to R or D Rev/Drive First/Second  Second/Third Third/Overdrive		
	SOCISO		

	BRAKES - STEERING - SUSPENSION							
SYMPTOM  Vehicle pulls right - When  Vehicle pulls left - When  Steering wheel vibrates at MPH  Excessive play in steering  Erratic steering when braking  Poor steering wheel return after cornering			☐ Suspension bottoms out ☐ Leans or sways in corners ☐ Brake light on ☐ Traction control light on ☐ Uneven tire wear		☐ Sits uneven ☐ "Dog" tracks ☐ ABS light on ☐ Soft ride			
Hard to steer ☐ Effort ☐ Steering wheel off cen	☐ Wanders ter		Shimmy/v  Front Seat	ribration (d	ear	below for loca ☐ Don't know ☐ Other	tion)	
Brake pedal ☐ Noise	☐ Pulses		☐ Squeaks	s □H	ard	☐ Mushy	☐ Excessive travel	
WHEN DOES IT OCCU ☐ Cold days ☐ Parking manuevers	JR? ☐ Hot days ☐ At road speed	ł	☐ Wet/rain		☐ All th	ne time elerating	☐ Intermittent	
SQUEAK - RATTLE - NOISE CONDITIONS								
AREA OF NOISE  Engine Compartment Front Suspension Rear Suspension Passenger Compartm Instrument Panel Doors Rear seat area	☐ Left ☐ Left ☐ Left ☐ Left ent ☐ Left ☐ Left ☐ Left ☐ Cons	sole	☐ Right ☐ Other _	□ c	enter enter enter enter	Don Don Don Don Don Don Don	't know 't know 't know 't know	
NOISE SOUNDS LIKE  ☐ Knocks ☐ Hard ☐ Squeaks ☐ Ratt	d metal	☐ Light		□ R □ 0		☐ Ticking	☐ Whine	
HOW OFTEN DOES IT	OCCUR?	☐ Inter	mittent	□ Ju	ust started	☐ Sinc	e new	
WHEN DOES IT OCCU  ☐ All the time ☐ Hard throttle ☐ Hot days ☐ Heavy bumps	JR?  Speed Light throttle Cold days Light bumps	☐ Hum	elerate id or rainy		-	☐ On turns ☐ Idle in gear	☐ Braking ☐ Idle out of gear	
EXPLAIN:					-			
CUSTOMER NAME:			F	PHONE NO	).:	REPA	AIR ORDER NO:	
SHOP USE ONLY: VIN#:		MILES	S:	TE	CHNICIAN	:	ADVISOR#:	

50H15062 Fig. 3: Symptom Check List - Page 2

AIR CONDITIONING - HEATER - VENTILATION							
SYSTEM OR AREA AF	FECTED						
☐ Air conditioner☐ Max A/C	☐ Heater ☐ Automatic Ter	☐ Defroster nperature Control	☐ Vent ☐ Mix/blend	☐ Bi-Level ☐ Economy	☐ Fan/blower ☐ All		
SYMPTOM							
☐ Does not work ☐ Noisy (explain) ☐ Leaks	☐ Blows wrong t☐ Broken☐ Insufficient he	Odor	☐ No air comes ☐ Air comes fro ☐ Other (explain	m wrong outlets	☐ Rapid cycling ☐ Blows fuse		
WHEN DOES IT OCCU	JR?						
☐ All the time ☐ When change controls	☐ Hot only	☐ Cold ☐ Inter ☐ Other (explain below)	mittent	☐ Right after startup☐ Fan blower speed High	n / Med / Low		
EXPLAIN:							
		ELECTRICAL - RADIO	- TAPE/CD PLA	VER			
SYMPTOM - MUSIC S		ELECTRICAL - HADIO	- TAI LOOT LA				
☐ Does not work ☐ Controls do not work	☐ Noisy	☐ Static ☐ Blows fuse	☐ Won't load ☐ Other (explain	•	reception		
SYSTEM AFFECTED							
☐ Radio only ☐ Tape player ☐ Speakers ☐ Antenna	☐ AM ☐ CD player ☐ Front ☐ Clock	☐ FM ☐ Whole system ☐ Rear ☐ Radio or player contro	☐ FM stereo ☐ Steering when ☐ Left	☐ Graphic equa el buttons ☐ Right ☐ Rear seat col	☐ Phone		
ALL OTHER ELECTRI Please list the compla			applicable sym	otom(s) from the list th	at follows:		
		☐ Inoperable ☐ Check light on or flash ☐ Blows fuse	□ Noisy ing □ Intermittent	☐ No control ☐ Works improperly (exp☐ Related system affect			
		☐ Inoperable ☐ Check light on or flash ☐ Blows fuse	☐ Noisy ing ☐ Intermittent	☐ No control☐ Works improperly (exp☐ Related system affect			
WHEN DOES IT OCCU	JR?	☐ Inoperable ☐ Check light on or flash ☐ Blows fuse	☐ Noisy ing ☐ Intermittent	☐ No control ☐ Works improperly (exp☐ Related system affect	•		
☐ All the time ☐ Intermittent ☐ Other (explain below)	☐ Hot ☐ After runs for	☐ Cold minutes	☐ Just after stal ☐ Rough roads	rting - malfunctions for a w or bumps only	hile		
EXPLAIN:							
CUSTOMER NAME:	-	PHON	E NO.:	REPAIR ORD	ER NO:		
SHOP USE ONLY: VIN#:		MILES:	TECHNICIAN:	ADVIS	OR#:		

50115063 Fig. 4: Symptom Check List - Page 3

WATER LEAK - WINDNOISE						
WATER LEAK Leak Occurs When?						
☐ Setting level ☐ Back lower than front (				☐ Car wash only downhill)		
Location of Leak (whe	ere water appears	s):				
☐ LF Door ☐ LF window ☐ Under instrument pane	☐ RF Door ☐ RF window	☐ LR Door ☐ LR window		ndshield Rear window le door Sunroof/T-Top		
WINDNOISE: Location:						
☐ LF Door ☐ LF window ☐ Under instrument pane	☐ RF Door ☐ RF window	☐ LR Door ☐ LR window		ndshield Rear window le door Sunroof/T-Top		
EXPLAIN:				<del> </del>		
	Λ	MANUAL TRANSMISS	SION - CLUTCH			
SYMPTOM - MANUAL	GEAR SHIFT		SYMPTOM - CLUTC	1		
☐ Hard to shift ☐ Grinds going into ☐ Noisy when in	. gear or neutral		☐ Hard to push☐ Noise when pressing	Fail to release		
☐ Slips/pops out of gear ☐ Noise (describe):			☐ Slips ☐ Odor present ☐ Squealing sound	☐ Chattering (grabbing) ☐ Pedal stays on the floor		
☐ Upshift light stays on☐ Upshift light doesn't lig	ht		WHEN DOES IT OCC			
WHEN DOES IT OCCU	JR?		☐ Cold	☐ Hot		
☐ All the time ☐ Heavy load	☐ Light load		☐ Accelerating	☐ Decelerating		
EXPLAIN:						
		COMMENTS				
CUSTOMER NAME:		PHON	IE NO.:	REPAIR ORDER NO:		
SHOP USE ONLY: VIN#: 0.115064		MILES:	TECHNICIAN:	ADVISOR#:		

Fig. 5: Symptom Check List - Page 4

# INDIVIDUAL SYSTEM-BASED CHECK LISTS

 $\ensuremath{\mathsf{NOTE}}\xspace$  . Have the service adviser fill out these forms with the customer whenever possible.

# DRIVEABILITY - ENGINE - AUTOMATIC TRANSMISSION

SYMPTOM (CHECK ALL THAT APPLY) ENGINE			OPERATING CONDITIONS (CHECK ALL THAT APPLY HOW OFTEN DOES IT OCCUR? (Engine &/or Transmission)			
☐ "Service Engine Soon"/Malfunction India ☐ Hard start/no start (cranks OK) ☐ Won't crank ☐ Engine stalls ☐ Engine miss	cator Light" on			to		Few minutes Few weeks Only during event Unknown
☐ Miss while driving ☐ Hesitates, stumbles or sags			☐ Just started☐ Since new		r	☐ Getting worse
☐ Rough idle ☐ Idle is too high ☐ Poor power/performance	ldle is too low		WHEN DOES IT			or Transmission)
☐ Surge or chuggle, buck - jerk - skip ☐ Poor gas mileage ☐ Highway ☐ Ping, detonates	☐ City		☐ Cold ☐ All the time	☐ Warm ☐ Only during v	varmup	☐ Hot
Sulphur/rotten egg odor			Weather Condi	tions:		
□ Backfires (popping noise) - underhood// □ Exhaust smoke □ Increased oi □ Runs on after key is turned off □ Speed fluctuates without moving accele □ Engine noise (explain):	erator		•	0°F 0°F □ Dry □ Wet roads	☐ War	d - 0 to 32°F rm - 60 to 80°F environment nid
(white pattle group slunk etc.)						
(whine, rattle, groan, clunk, etc.)  Other:						
			Driving Condit	ions:		
TRANSMISSION			☐ Light throttle☐ Starting☐ Over bumps	☐ Medium thr ☐ At idle ☐ When shifti		☐ Hard throttle☐ Decelerating☐ While turning
□ Does not shift properly □ Will not shift □ Up □ Will not shift into overdrive □ Engine starts in other than "P" or "N" □ Noise (describe): □	☐ Hard shift ☐ Down		Cruising - stea Anytime Highway Between Only with A/C	ady at MPH Uphill Ucity/town MPH and	-	☐ While braking ☐ Downhill ☐ Stop and go
			What Type of F	uel?	What I	Brand?
(whine, rattle, groan, clunk, buzz,  Shifts into next gear too early  Overdrive doesn't work with speed cont			☐ Regular UL☐ Gasohol☐ Diesel #1	☐ Midrange U☐ Ethanol☐ Diesel #2	JL	☐ Premium UL ☐ Methanol ☐ Various brands
otherwise OK  Highway speed - shudder, surge, etc.			When Gear Sel	lector is in:		
Other:			☐ Park/Neutral☐ Drive/3	☐ Reverse		☐ Overdrive
EXPLAIN:			Between Gears	s:		
			☐ Park to R or □	Л Вологоо /D	rivo	☐ First/Second
			☐ Second/Third			□ FilsV3econd
CUSTOMER NAME:		PHO	NE NO.:	REP	AIR ORD	ER NO:
SHOP USE ONLY: VIN#:	MILES:		TECHNICIAN:		ADVI	SOR#:

50H15054 Fig. 6: Engine Driveability & Automatic Transmission

		BRAK	ES - STEERIN	IG - SUSPENS	SION		
	SYMPTOM  Vehicle pulls right - When  Vehicle pulls left - When  Steering wheel vibrates at MPH  Excessive play in steering  Erratic steering when braking  Poor steering wheel return after cornering		☐ Suspension bottoms out ☐ Leans or sways in corners ☐ Brake light on ☐ Traction control light on ☐ Uneven tire wear		s □ "C □ Al	☐ Sits uneven ☐ "Dog" tracks ☐ ABS light on ☐ Soft ride	
	Hard to steer  ☐ Effort			ration (check	box below for lo		
	Steering wheel off cen	☐ Wanders ter	☐ Front ☐ Seat	☐ Floor	Other		
	Brake pedal ☐ Noise	☐ Pulses	☐ Squeaks	☐ Hard	☐ Mushy	☐ Excessive travel	
	WHEN DOES IT OCCU ☐ Cold days ☐ Parking manuevers	JR? ☐ Hot days ☐ At road speed	☐ Wet/rain ☐ Accelerati		All the time Decelerating	☐ Intermittent	
	EXPLAIN:						
	CUSTOMER NAME:		Pł	IONE NO.:	RE	PAIR ORDER NO:	
	SHOP USE ONLY: VIN#:	MILE	ES:	TECHNI	CIAN:	ADVISOR#:	
Fig. 7:	50C15059 Brakes, Ste	eering, & Susp	pension				
		AIR COND	DITIONING - HE	ATER - VENTIL	LATION		
	SYSTEM OR AREA A	FFECTED					
	☐ Air conditioner ☐ Max A/C	☐ Heater ☐ Defro		☐ Vent ☐ Mix/blend	☐ Bi-Level ☐ Economy	☐ Fan/blower ☐ All	
	SYMPTOM						
	☐ Does not work ☐ Noisy (explain) ☐ Leaks	☐ Blows wrong temperate ☐ Broken ☐ Odor ☐ Insufficient heat or coo	•	☐ No air comes ☐ Air comes fi ☐ Other (expla	rom wrong outlets	☐ Rapid cycling ☐ Blows fuse	
	WHEN DOES IT OCC	UR?					
	☐ All the time ☐ When change control	☐ Hot ☐ Cold s only ☐ Othe	☐ Inte r (explain below)	rmittent	☐ Right after startu☐ Fan blower spee	-	
	EXPLAIN:						
	-						
	CUSTOMER NAME:		РНОІ	NE NO.:	REPAIR	ORDER NO:	
	SHOP USE ONLY: VIN#:	MILES	<b>3:</b>	TECHNICIAI	N: #	ADVISOR#:	

50A15057
Fig. 8: Air Conditioning, Heater & Ventilation

		ELECTRICAL - RADIO	- TAPE/CD PLA	YER		
SYMPTOM - MUSIC S	YSTEM					
☐ Does not work ☐ Controls do not work	☐ Noisy	☐ Static ☐ Blows fuse	☐ Won't load ☐ Other (explain	,	Poor reception	
SYSTEM AFFECTED						
☐ Radio only ☐ Tape player ☐ Speakers ☐ Antenna	☐ AM ☐ CD player ☐ Front ☐ Clock	☐ FM ☐ Whole system ☐ Rear ☐ Radio or player contro	☐ FM stereo ☐ Steering whee ☐ Left	☐ Graphic el buttons ☐ Right ☐ Rear sea	☐ Phone	
ALL OTHER ELECTRICAL ITEMS OR ACCESSORIES Please list the complaint accessory or item and check any applicable symptom(s) from the list that follows:						
		☐ Inoperable ☐ Check light on or flash ☐ Blows fuse	□ Noisy ing □ Intermittent	☐ No control ☐ Works improperly ☐ Related system a	☐ Erratic (explain below) ffected (explain below)	
		☐ Inoperable ☐ Check light on or flash ☐ Blows fuse	☐ Noisy ing ☐ Intermittent	☐ No control☐ Works improperly☐ Related system a	☐ Erratic r (explain below) ffected (explain below)	
WHEN DOES IT OCCU	JR?	☐ Inoperable ☐ Check light on or flash ☐ Blows fuse	☐ Noisy ing ☐ Intermittent	☐ No control☐ Works improperly☐ Related system a	☐ Erratic r (explain below) ffected (explain below)	
☐ All the time ☐ Intermittent ☐ Other (explain below)	☐ Hot☐ After runs for	☐ Cold minutes	☐ Just after star ☐ Rough roads	rting - malfunctions for or bumps only	r a while	
EXPLAIN:						
CUSTOMER NAME:		М	NE NO.:	REPAIR	ORDER NO:	
SHOP USE ONLY: VIN#:		MILES:	TECHNICIAN	: А	DVISOR#:	

50B15058
Fig. 9: Electrical, Radio & Tape/CD Player

MANUAL TRANSMISSION - CLUTCH						
SYMPTOM - MANUAL	GEAR SHIFT		SYMPTOM - CLUTCH			
☐ Hard to shift ☐ Grinds going into ☐ Noisy when in			☐ Hard to push☐ Noise when pressin	☐ Fail to release g pedal down (describe):		
			☐ Slips ☐ Odor present ☐ Squealing sound	☐ Chattering (grabbing) ☐ Pedal stays on the floor		
☐ Upshift light stays on ☐ Upshift light doesn't light			WHEN DOES IT OCCUR? When Engine Temperature is:			
WHEN DOES IT OCC	UR?		☐ Cold	☐ Hot		
☐ All the time☐ Heavy load	☐ Light load		☐ Accelerating	☐ Decelerating		
EXPLAIN:						
CUSTOMER NAME:			PHONE NO.:	REPAIR ORDER NO:		
SHOP USE ONLY: VIN#:		MILES:	TECHNICIAN:	ADVISOR#:		

 $\ensuremath{^{50J15056}}$  Fig. 10: Manual Transmission & Clutch

		SQUEAK - RATTLE -	NOISE CONDITIO	NS			
AREA OF NOISE  ☐ Engine Compartment ☐ Front Suspension ☐ Rear Suspension ☐ Passenger Compartme ☐ Instrument Panel ☐ Doors ☐ Rear seat area	☐ Left ☐ Con	☐ Right ☐ Other	Center Center Center Center Center	☐ Dor ☐ Dor ☐ Dor ☐ Dor	n't know n't know n't know n't know n't know n't know		
NOISE SOUNDS LIKE  Knocks Hard  Squeaks Ratt	d metal	☐ Light metal☐ Scraping	☐ Roars ☐ Other	☐ Ticking	☐ Whine		
HOW OFTEN DOES IT	OCCUR?	☐ Intermittent	☐ Just started	☐ Sine	ce new		
WHEN DOES IT OCCU  ☐ All the time ☐ Hard throttle ☐ Hot days ☐ Heavy bumps	JR?  Speed Light throttle Cold days Light bumps		Only moving Steady speed Temperature	☐ On turns ☐ Idle in gear	☐ Braking ☐ Idle out of gear —		
EXPLAIN:							
CUSTOMER NAME:		PH	ONE NO.:	REP	AIR ORDER NO:		
SHOP USE ONLY: VIN#:		MILES:	TECHNICIAN	:	ADVISOR#:		
<i>50F15060</i> 1: Squeak, R	attle, &	Noise Condit	cions				
WATER LEAK Look Occurs When?							
WATER LEAK Leak Occurs When?		WATER LEAK					
	☐ Any time it re	ains 🔲 \	While driving in the ra Front lower than back		☐ Car wash only		
Leak Occurs When?	(facing uphill)	nins	While driving in the ra		☐ Car wash only		
Leak Occurs When?  Setting level Back lower than front	(facing uphill)  ere water appea  RF Door  RF window	nins	Nhile driving in the ra Front lower than back □ RR Door	(facing downhill)  Windshield Side door	☐ Car wash only ☐ Rear window ☐ Sunroof/T-Top		
Leak Occurs When?  Setting level Back lower than front Location of Leak (wh LF Door LF window	(facing uphill)  ere water appea  RF Door  RF window	uins \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Nhile driving in the ra Front lower than back □ RR Door w □ RR window	(facing downhill)  Windshield Side door	☐ Rear window		
Leak Occurs When?  Setting level Back lower than front Location of Leak (wh LF Door LF window Under instrument pan	(facing uphill) ere water appea RF Door RF window ael RF Door	uins \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Nhile driving in the ra Front lower than back ☐ RR Door w ☐ RR window ☐ Rear door/re ☐ RR Door	(facing downhill)  Windshield Side door ar hatch  Windshield Side door	☐ Rear window		
Leak Occurs When?  Setting level Back lower than front Location of Leak (wh LF Door LF window Under instrument pan WINDNOISE: Location:  LF Door LF window Under instrument pan	(facing uphill)  ere water appea  RF Door  RF window  RF Door  RF window	uins □ N  ars): □ LR Door □ LR windo	While driving in the ra Front lower than back  RR Door RR window Rear door/re  RR Door RR Window RR AR Oor	(facing downhill)  Windshield Side door ar hatch  Windshield Side door	☐ Rear window ☐ Sunroof/T-Top ☐ Rear window		
Leak Occurs When?  Setting level Back lower than front Location of Leak (wh LF Door LF window Under instrument pan WINDNOISE: Location:  LF Door LF window Under instrument pan	(facing uphill)  ere water appea  RF Door  RF window  RF Door  RF window	ars):  LR Door LR windo	While driving in the ra Front lower than back  RR Door RR window Rear door/re  RR Door RR Window RR AR Oor	(facing downhill)  Windshield Side door ar hatch  Windshield Side door ar hatch	☐ Rear window ☐ Sunroof/T-Top ☐ Rear window		

Fig.