

RIDE AND HANDLING

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DIAGNOSIS

RIDE AND HANDLING DIAGNOSIS

This ride and handling diagnosis is a preliminary diagnosis for the various sections of the suspension

and steering group. Ride and handling problems are such that require consideration of all steering, suspension and tire components of the system. This section lists the most common problem areas associated with the particular condition in order of ease of accessibility. Referrals are made to the appropriate sections where more detailed inspection and testing procedures can be found.

CONDITION	POSSIBLE CAUSE	REFER TO SECTION
Abnormal Tire Wear	Improper Tire Inflation	I - Wheels and Tires
	Tire or Wheel Unbalance	I - Wheels and Tires
	Improper Front End Alignment	D - Front End Alignment
Vibration	Tire or Wheel Unbalance	I - Wheels and Tires
	Tire Run-Out	I - Wheels and Tires
Wander or Lack of Steering Stability	Improper Tire Inflation	I - Wheels and Tires
	Uneven Tire Wear	I - Wheels and Tires
	Improper Front End Alignment	D - Front End Alignment
	Insufficient or Improper Lubricant in Power Steering System	F - Power Steering Gear and Pump
	Improper Steering Gear Adjustment	F - Power Steering Gear and Pump E - Manual Steering Gear
	Steering Linkage Worn	C - Steering Linkages
	Loose Front Wheel Bearing Adjustment	B - Front Suspension

Condition	Possible Cause	Refer to Section
Body Lean or Sway in Corners	Improper Tire Inflation	I - Wheels and Tires
	Stabilizer Bar Loose	B - Front Suspension
	Incorrect or Weak Shocks	B - Front Suspension H - Rear Suspension
	Incorrect or Weak Springs	B - Front Suspension H - Rear Suspension
Ride too Soft (Large Body Motions)	Improper Tire Inflation	J - Wheels and Tires
	Incorrect or Weak Shocks	B - Front Suspension H - Rear Suspension
Ride too Harsh	Improper Tire Inflation	I - Wheels and Tires
	Incorrect Shock Absorbers	B - Front Suspension H - Rear Suspension
	Incorrect Springs	B - Front Suspension H - Rear Suspension
Bottoming (Normal Load)	Incorrect or Weak Shock Absorbers	B - Front Suspension H - Rear Suspension
	Incorrect or Weak Springs	B - Front Suspension H - Rear Suspension
Bottoming (Heavy Load)	Exceeding Maximum Load Rating	Suggest Heavy Duty Shock Absorbers at Owner Expense
	Incorrect or Weak Shock Absorbers	B - Front Suspension H - Rear Suspension
	Incorrect or Weak Springs	B - Front Suspension H - Rear Suspension
Pulls or Leads	Front Tires of Unequal Diameter Due to Wear, Make or Size Design	D - Front End Alignment I - Wheels and Tires
	Low or Uneven Tire Inflation	I - Wheels and Tires
	Improper Front End Alignment	D - Front End Alignment
	Steering Gear	F - Power Steering Gear and Pump

Condition	Possible Cause	Refer to Section
Excessive Play or Looseness in Steering System	Torn Steering Shaft Flex Coupling or Worn Pot Joint	G - Steering Column
	Worn or Loose Steering Linkage	C - Steering Linkages
	Steering Gear Adjustment	E - Manual Steering Gear F - Power Steering Gear and Pump
Poor Return of Steering	Improper Tire Inflation	I - Wheels and Tires
	Insufficient Lubrication at Steering Linkage or Ball Joints	Group 0 Lubrication C - Steering Linkages
	Improper Steering Gear Adjustment	E - Manual Steering Gear F - Power Steering Gear and Pump
	Improper Front End Alignment	D - Front End Alignment
	Insufficient or Improper Lubrication in Manual Steering Gear	E - Manual Steering Gear
	Misaligned Steering Shaft	G - Steering Column
	Hard Steering Effort	Improper Tire Inflation
Insufficient Lubrication in Steering Linkage or Ball Joints		Group 0 Lubrication C - Steering Linkages
Steering Gear Incorrectly		E - Manual Steering Gear F - Power Steering Gear and Pump
Improper Front End Alignment		D - Front End Alignment
Insufficient or Improper Lubrication in Manual Steering Gear		E - Manual Steering Gear
Misaligned or Worn Steering Shaft		G - Steering Column

Condition	Possible Cause	Refer to Section
Abnormal Noise	Uneven Tire Wear (Worn Spots or Scalloping)	D - Front End Alignment I - Wheels and Tires
	Insufficient or Improper Lubricant in Steering Gear and/or Pump	E - Manual Steering Gear F - Power Steering Gear and Pump
	Worn or Maladjusted Front Wheel Bearings	B - Front Suspension
	Worn Rear Wheel Bearings	Group 4B
	Worn or Insufficiently Lubricated Steering Linkage	C - Steering Linkage
	Worn or Insufficiently Lubricated Ball Joints or Control Arm Bushings	B - Front Suspension
	Worn or Insufficiently Lubricated Steering Shaft	G - Steering Column
	Faulty Power Steering Pump	F - Power Steering Gear and Pump
	Loose or Faulty Steering Gear	E - Manual Steering Gear F - Power Steering Gear and Pump
Low or Uneven Trim Height	Incorrect or Weak Springs	B - Front Suspension H - Rear Suspension
	Unmatched Springs	B - Front Suspension H - Rear Suspension