

RIDE AND HANDLING

CONTENTS

DESCRIPTION AND OPERATION: (Not Applicable)

DIAGNOSIS:

Trouble Diagnosis 3A-1

MAINTENANCE AND ADJUSTMENTS: (Not Applicable)

MAJOR REPAIR: (Not Applicable)

SPECIFICATIONS: (Not Applicable)

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
Loose Front Wheel Bearing Adjustment	B - Front Suspension	
Steering Linkage Worn	C - Steering Linkages	

Body Lean or Sway
in Corners

Improper Tire Inflation

I - Wheels and Tires

Stabilizer Bar Loose

B - Front Suspension
H - Rear 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

I - 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
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	I - Wheels and Tires
	Insufficient Lubrication in Steering Linkage or Ball Joints	Group 0 Lubrication C - Steering Linkages
	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 or Worn Steering Shaft	G - Steering Column
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