

1999 Ford Mustang GT V8-4.6L SOHC VIN X

Vehicle > Technical Service Bulletins

COMPREHENSIVE NOISE/VIBRATION/HARSHNESS PROCEDURE

Related Links

Description and Operation

Diagnosis and Testing

General Procedures

TEST CONDITIONS	TEST DETAILS/RESULTS/ACTIONS
II ROAD TEST THE VEHICLE	
	I Test drive the vehicle.

(Continued)

TEST CONDITIONS	TEST DETAILS/RESULTS/ACTIONS
I1 ROAD TEST THE VEHICLE (Continued)	<p data-bbox="630 178 654 205">2</p> <p data-bbox="672 178 1130 254">During the road test, drive the vehicle over a rough road. Using ChassisEARS, determine from which area/component the noise is originating.</p> <ul data-bbox="678 275 1057 296" style="list-style-type: none"> • Is there a squeak, creak or rattle noise? <p data-bbox="678 317 808 363">→ Yes GO to I2.</p> <p data-bbox="678 384 1092 451">→ No The suspension system is OK. Conduct a diagnosis on other suspect systems.</p>
I2 REAR SHOCK ABSORBER CHECK	<p data-bbox="630 514 654 541">1</p> <p data-bbox="672 514 1130 709">⚠ WARNING: The electrical power to the air suspension system must be shut off prior to hoisting, jacking or towing an air suspension vehicle. This can be accomplished by turning off the air suspension switch. Failure to do so can result in unexpected inflation or deflation of the air springs, which can result in shifting of the vehicle during these operations.</p> <p data-bbox="672 716 943 737">Raise and support the vehicle.</p> <p data-bbox="630 772 654 800">2</p> <p data-bbox="672 772 1101 821">Check the rear shock absorber mounts for loose bolts or nuts.</p> <p data-bbox="630 856 654 884">3</p> <p data-bbox="672 856 1122 905">Check the rear shock absorbers for damage. Carry out a shock absorber check.</p> <ul data-bbox="678 926 1101 972" style="list-style-type: none"> • Are the rear shock absorbers/struts loose or damaged? <p data-bbox="678 993 1073 1108">→ Yes TIGHTEN to specifications if loose. INSTALL new rear shock absorbers if damaged. TEST the system for normal operation.</p> <p data-bbox="678 1129 813 1176">→ No GO to I3.</p>

(Continued)

TEST CONDITIONS	TESTDETAILS/RESULTS/ACTIONS
I3 CHECK THE REAR SPRINGS	<p data-bbox="630 195 1015 247">1 Check the rear springs and rear spring mounts/brackets for wear or damage.</p> <ul data-bbox="678 268 1128 321" style="list-style-type: none"> • Are the rear springs or spring mounts/brackets worn or damaged? <p data-bbox="678 342 1107 426">→ Yes REPAIR or INSTALL new components as necessary. TEST the system for normal operation.</p> <p data-bbox="678 447 808 489">→ No GO to I4.</p>
I4 CHECK THE CONTROL ARMS/TRAILING ARMS	<p data-bbox="630 558 1122 632">1 Inspect the control/trailing arm bushings for wear or damage. Check for loose control/trailing arm bolts.</p> <p data-bbox="630 663 1105 695">2 Inspect for twisted or bent control/trailing arms.</p> <ul data-bbox="678 716 1138 768" style="list-style-type: none"> • Are the control/trailing arms loose, damaged or worn? <p data-bbox="678 789 1107 873">→ Yes REPAIR or INSTALL new components as necessary. TEST the system for normal operation.</p> <p data-bbox="678 894 808 936">→ No GO to I5.</p>
I5 CHECK THE STABILIZER BAR/TRACK BAR	<p data-bbox="630 999 1114 1052">1 Check the stabilizer/track bar bushings and links for damage or wear.</p> <p data-bbox="630 1083 1052 1115">2 Check the stabilizer/track bar for damage.</p> <p data-bbox="630 1146 1133 1199">3 Check for loose or damaged stabilizer bar isolators or brackets.</p> <ul data-bbox="678 1220 1128 1272" style="list-style-type: none"> • Are the stabilizer/track bar components loose, worn or damaged? <p data-bbox="678 1293 1107 1377">→ Yes REPAIR or INSTALL new components as necessary. Test the system for normal operation.</p> <p data-bbox="678 1398 1057 1472">→ No Suspension system OK. CONDUCT diagnosis on other suspect systems.</p>