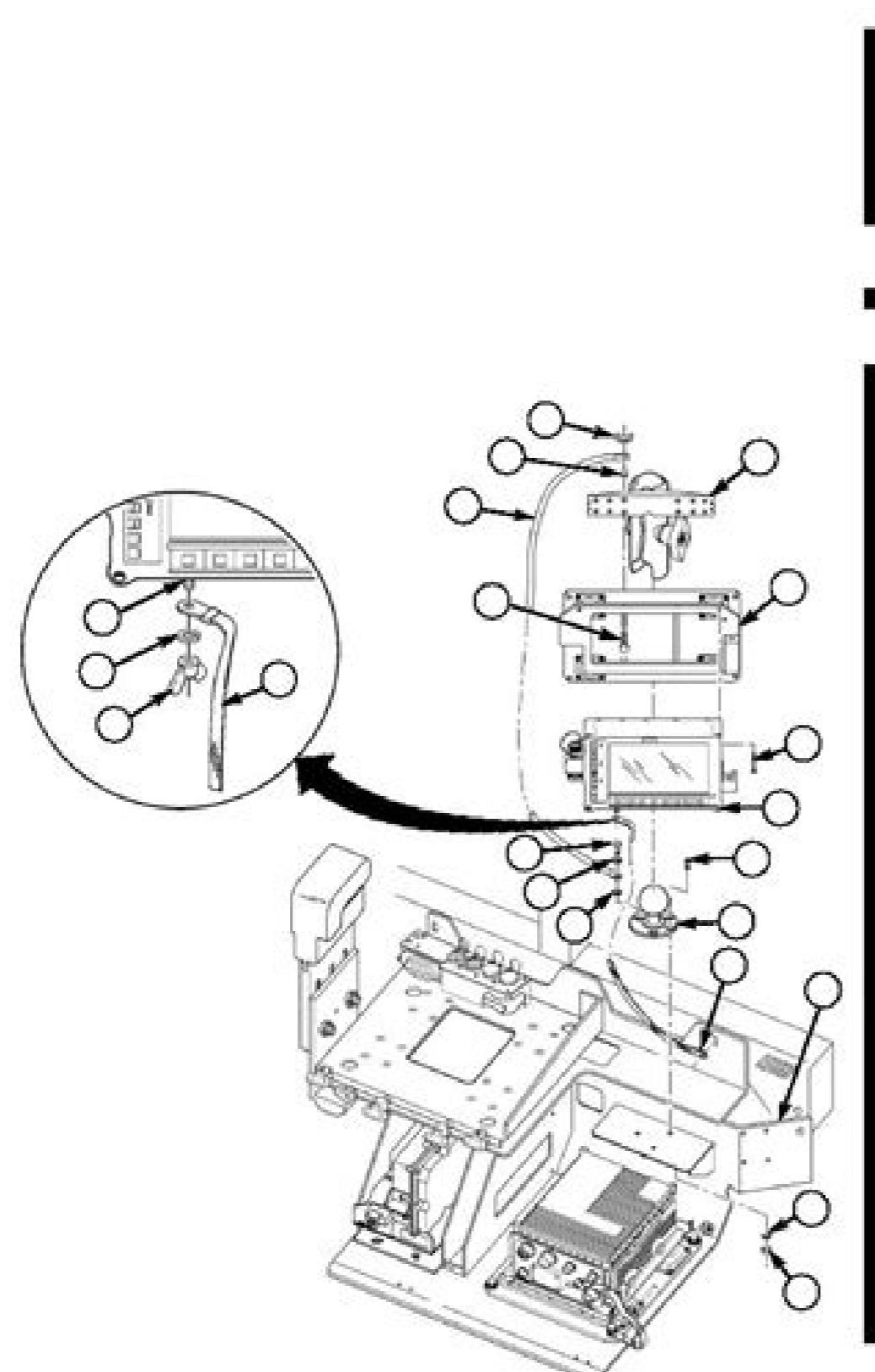
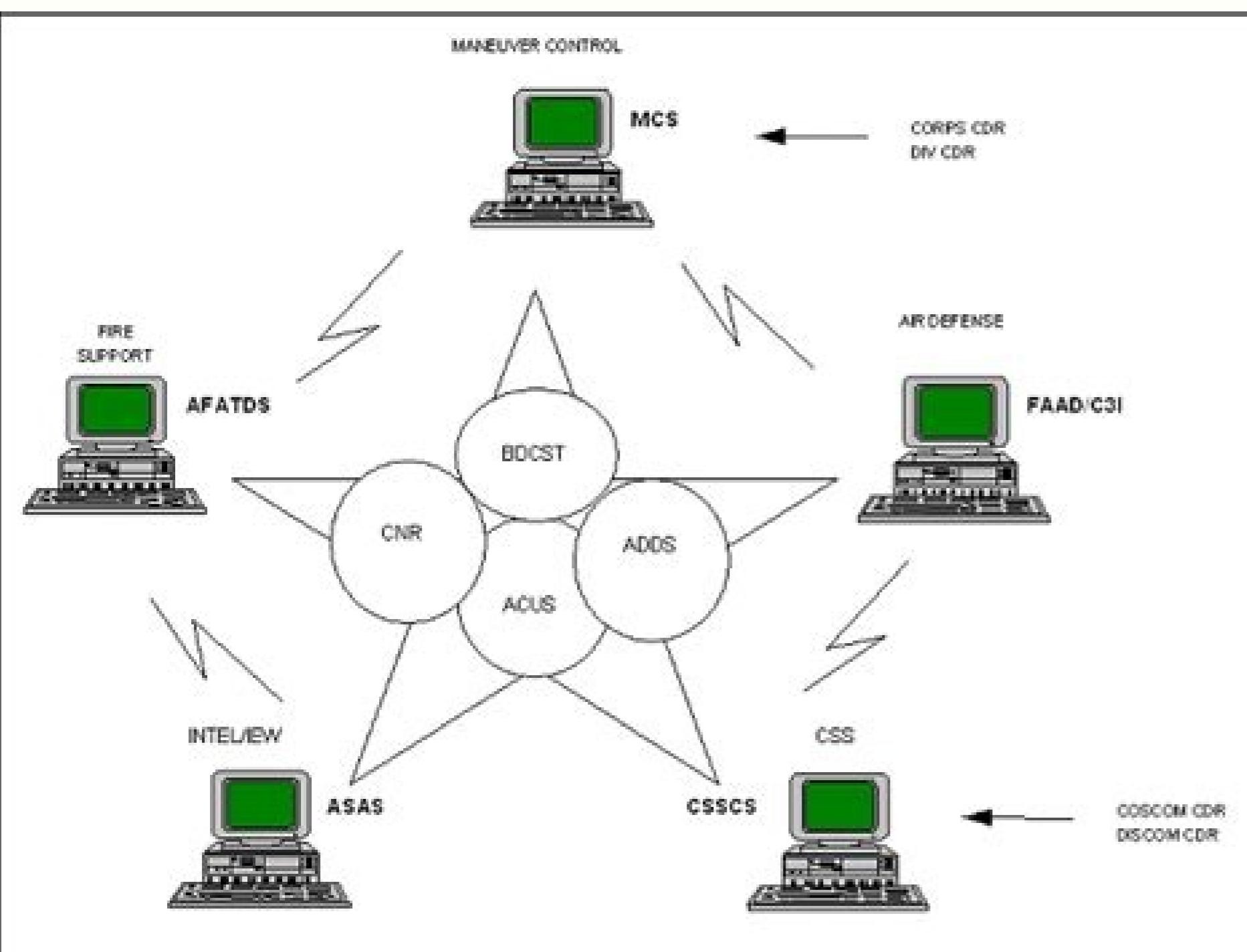
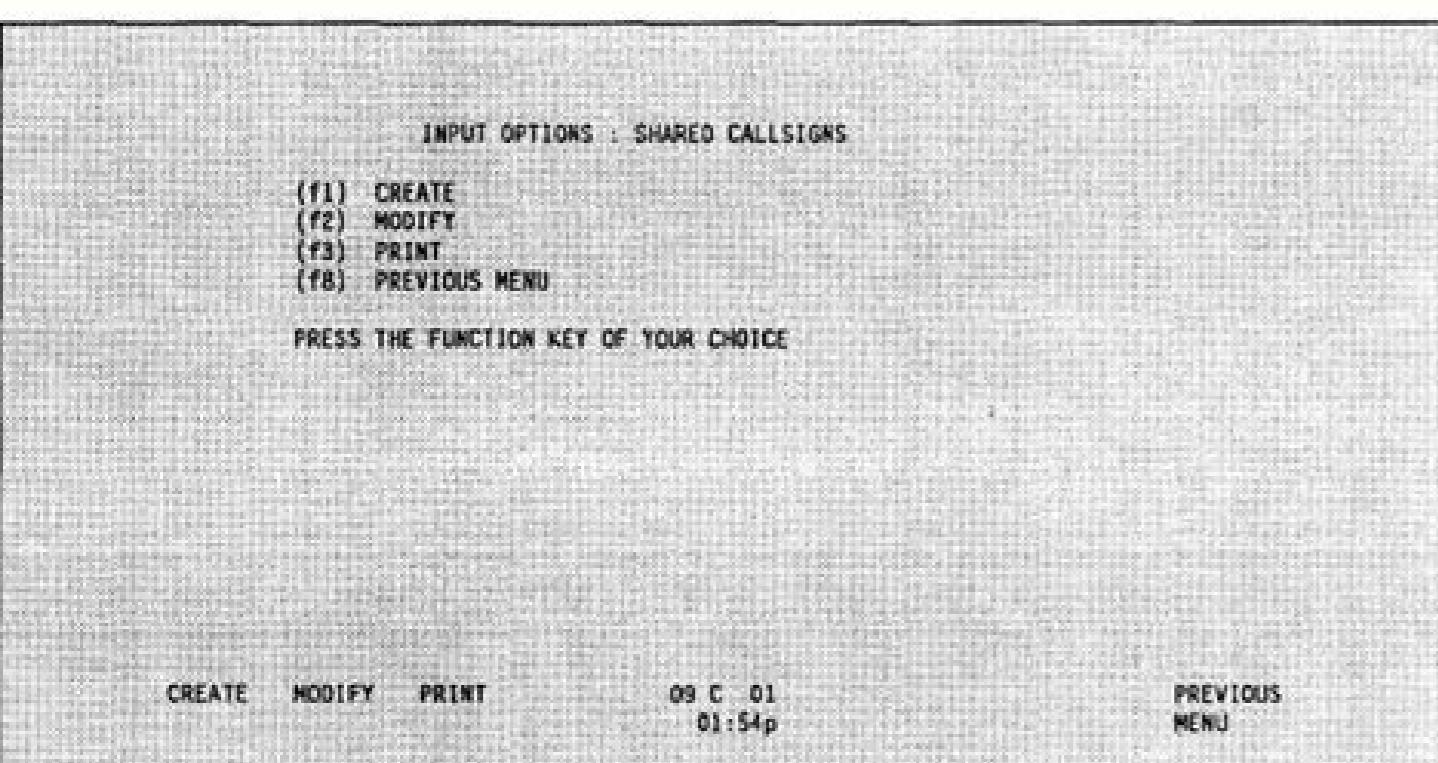


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With the car stopped and the transmission in neutral, run the engine at various speeds. If the noise is heard during this test, the noise is confined to the engine, exhaust system, clutch, transmission or engine driven accessory equipment.

Prior to the diagnostic road test check the tire pressure and rear axle lubricant level.

Tire Noise Tests

Some types of tire tread wear or tread patterns may produce objectionable noises. Therefore, drive the car on various types of road surfaces and listen for a change in the noise. If the noise varies with the types of surfaces the tires may be the cause.

Wheel Bearing Tests

Worn, loose, or damaged wheel bearings may be confused with axle noise. Wheel bearing noise is usually more noticeable when coasting at lower car speeds. Generally, as the broken bearing begins to change wheel bearing noise. Another test is to turn the car alternately left and right which side loads the bearings causing the defective bearing to become noisy.

Axle Tests

Drive the car a sufficient distance to warm the axle to the required operating temperature. Test should then be performed using different transmission gears.

Rear axle noise conditions are usually related to car speed rather than engine RPM or transmission gears.

Rear axle noise may be classified into two types: gear noise and bearing noise.

Gear noise is recognized as a white or high pitched resonating sound more pronounced at certain speeds under a vehicle with a narrow speed range under a vehicle (accelerating load), over (decelerating load), or float (maintained speed condition).

Bearing noise is usually constant and the pitch related to the car speed.

The drive pinion runs faster than the drive gear; therefore, the pinion bearings will be a higher source than the differential bearings. Drive pinion bearings are usually of a roller bearing design.

The differential bearings are in pitch because they are running the same speed as the wheels when the car is driven straight ahead. Differential bearing noise will not vary when the car is turned alternately left to right when the brakes are gently applied.

Axle Backlash

Rear axle backlash must be isolated from worn universal joints, or a fit of universal joint on the transmission side.

Bear axle backlash may be due to excessive clearance between the differential gear and differential pinion, or a loose fitting differential pinion shaft in the case.

Excessive drive gear and pinion clearance will also cause excessive backlash. However, a noise will usually be present due to improper drive gear and drive shaft adjustment.

Other Axle Conditions

A knocking or "ringing" sound heard in the rear axle when coasting can be caused by a loose fitting drive gear in the differential case. When this condition is encountered lightly applying the brakes usually reduces the sound.

Differential gear noise heard under certain conditions may be caused by a loose wheel for car wheel balancing, or when a rear wheel is spinning due to icy conditions, sideslipped or skidded.

When a noise has been determined to be caused by the bearings, the car does not require replacement until inspection reveals signs of damage.

Wheels the noise is determined to be caused by the wheel bearings, the car does not require replacement until inspection reveals signs of damage.

Afstandsmaatschappijen Afstandsopnames en afstands-

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