

TECHNICAL BULLETIN



Poor Antenna Mast Operation – Cleaning – Replacing

86-179

MODEL 1988-94 MY Sedan Range
XJS Range

DATE 7/97

ISSUE:

Poor operation of the power antenna is most frequently caused by a jammed mast. Any movement of the mast, when switching the radio on or off, indicates that the power antenna motor is operating. A time-out function shuts the motor off if there is no further movement of the antenna mast. As a result, power antenna motor units must not be replaced without proper diagnosis and inspection of the antenna mast.

ACTION:

When diagnosing a customer complaint of poor extending or retracting of the antenna mast on the above listed vehicles, proceed as follows:

1. Check the telescopic section for cleanliness. A mast cleaning kit is available, part no. JLM 9830.
2. If cleaning does not result in proper operation, or if the mast is physically damaged, replace the mast section.

REPLACING ANTENNA MAST

1. Switch the radio off. Loosen the locking nut between the grommet and the mast guide tube, Illustration 1.
2. Have an assistant switch on the ignition and radio.

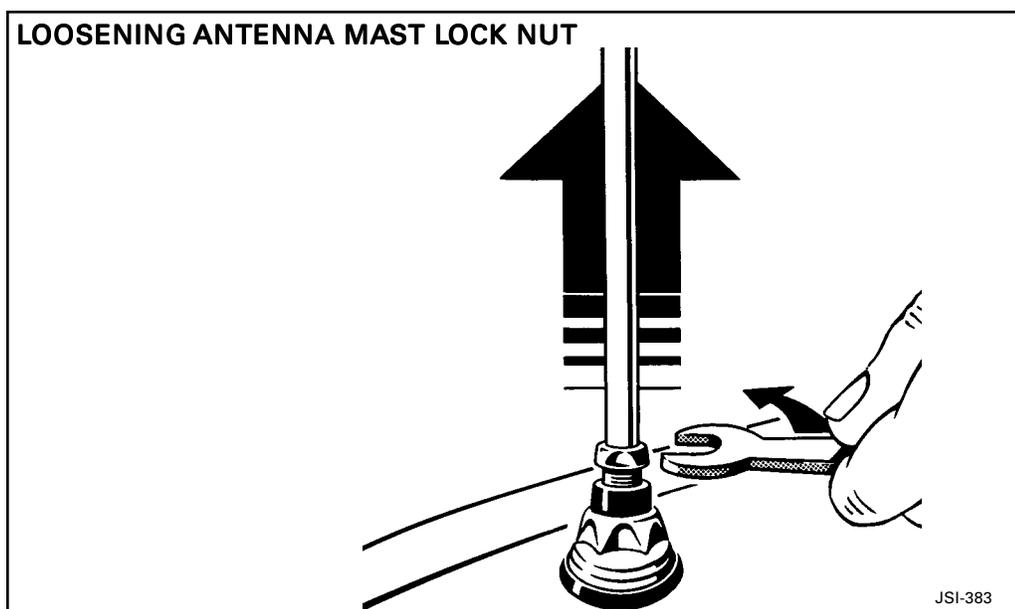


ILLUSTRATION 1

3. As the mast extends fully, loosen the locking nut completely and simultaneously pull the mast gently upwards.
4. The mast and drive cable will be released by the motor (Illustration 2). Full extension of the mast should take approximately 7 seconds. A built in timer will shut off the drive motor after approximately 12 seconds.

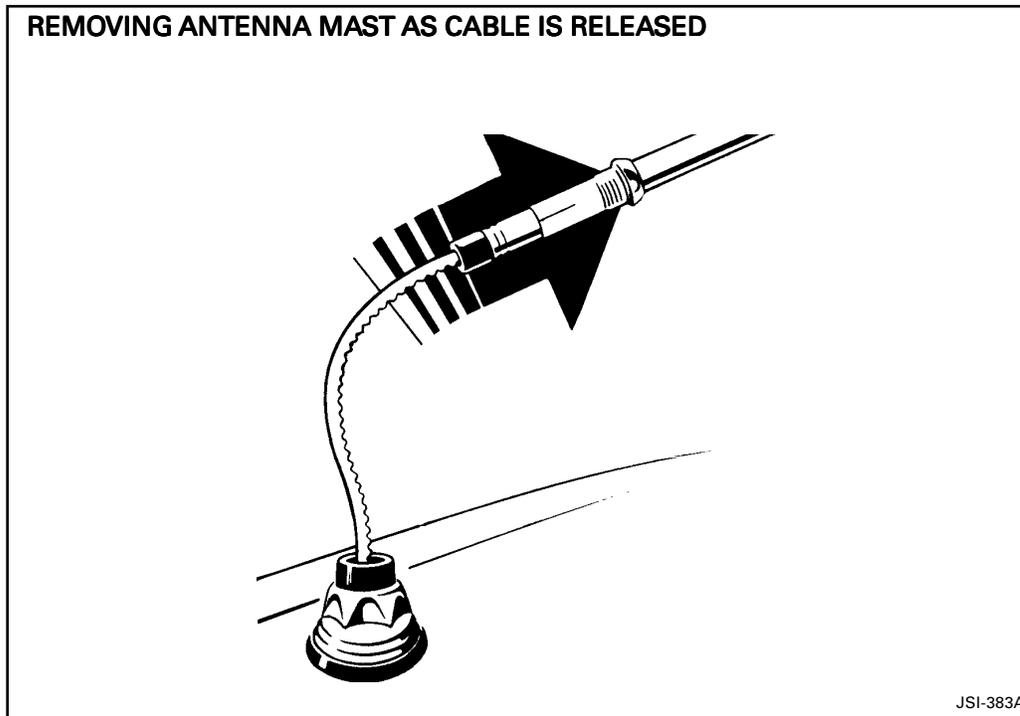


ILLUSTRATION 2

5. If the drive cable is not released from the drive mechanism, the assistant should switch the radio off and on again immediately. Do not let go of the mast after locking nut is fully loosened and do not exert excessive force on the cable in attempts to release it.

NOTE: As the drive cable comes out of the guide tube, observe which direction the teeth on the cable are facing (forward or toward the driver's side, so that the replacement can be aligned correctly during installation.

Leave the ignition and the radio switched on.

INSTALLING REPLACEMENT MAST

1. Insert the drive cable into the tube with the teeth aligned in the same direction as the old cable, Illustration 3. Push the cable in until it contacts the drive mechanism (Illustration 4).

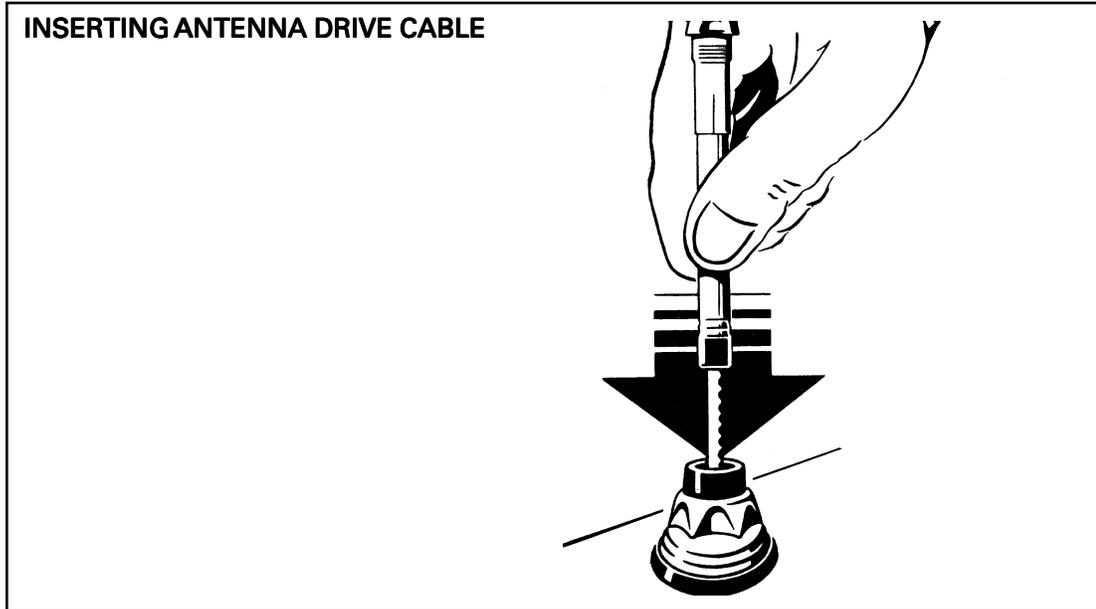
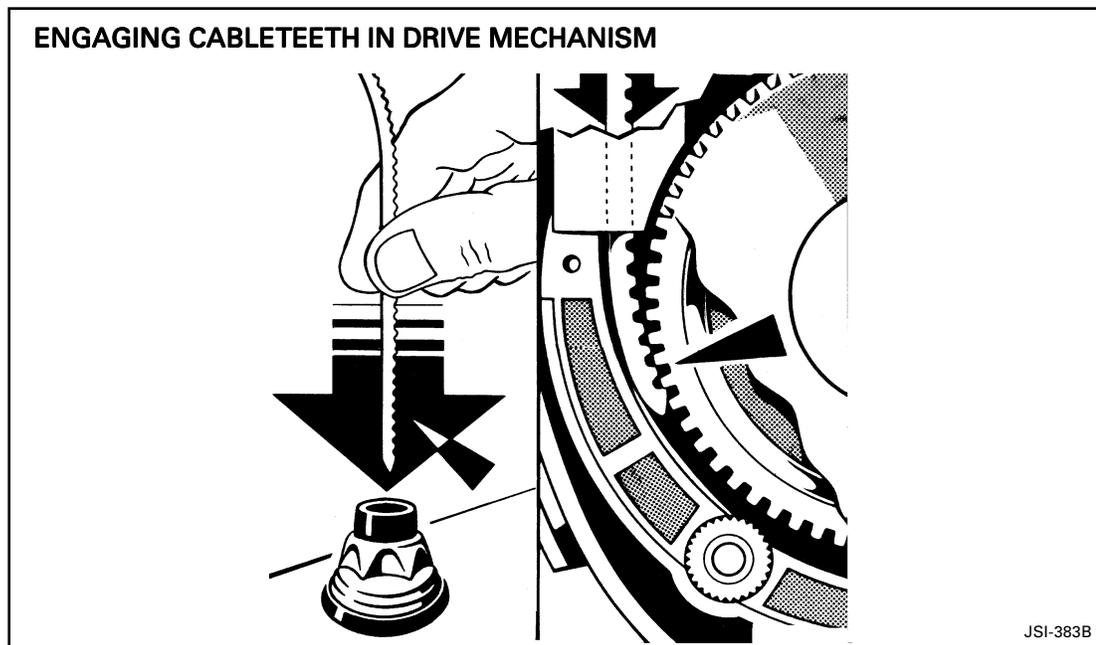


ILLUSTRATION 3

2. Have an assistant switch the radio off. After a brief delay, the antenna drive motor should start.
3. Maintain slight pressure on the drive cable, so that as the motor starts, the cable engages with the mechanism, Illustration 4. If the cable does not engage, twist the cable slightly from side to side until it engages.



JSI-383B

ILLUSTRATION 4

4. After allowing the mast to retract fully, tighten the locking nut (Illustration 5) and check antenna operation. If the motor stops before the antenna is fully retracted, tighten the locking nut, switch the radio on again to fully extend the mast. Switch the radio off again. The mast should now retract fully.

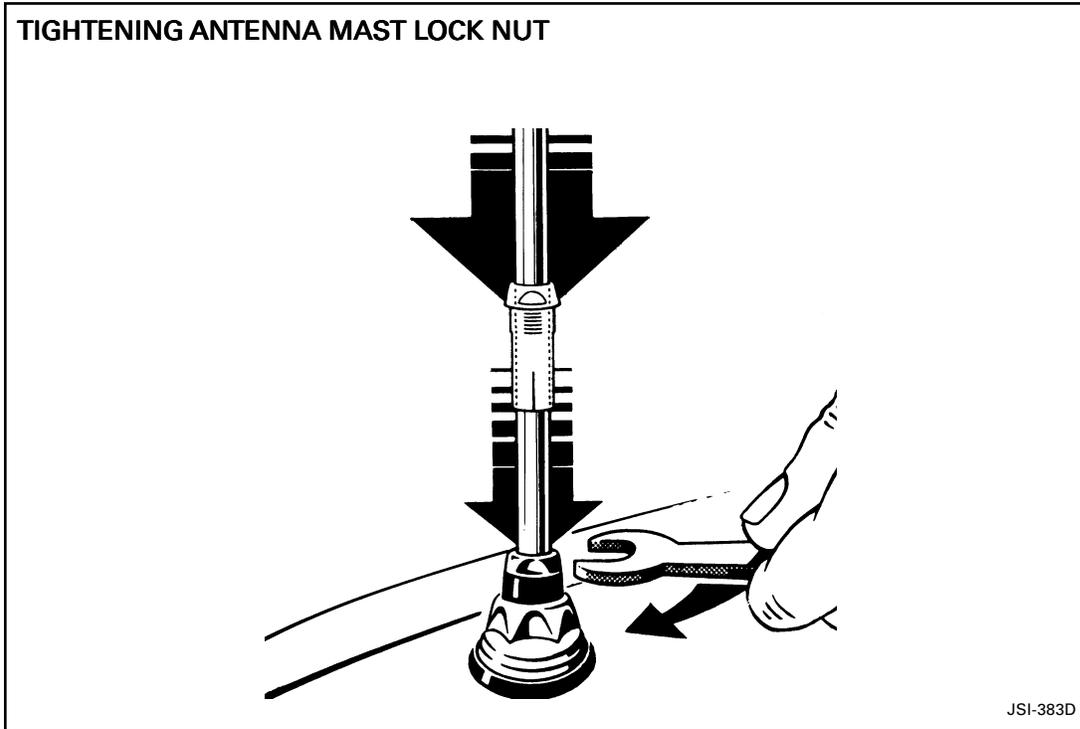


ILLUSTRATION 5

PARTS INFORMATION:

<u>DESCRIPTION</u>	<u>PART NUMBER</u>	<u>QTY</u>
Antenna cleaning kit	JLM 9830	A/R
Replacement mast assembly Sedan Range up to VIN 687218 XJS Range up to VIN 190527	DBC 2200	1
Replacement mast assembly Sedan Range from VIN 687219 XJS Range from VIN 190528	LNA 4134AA	1

WARRANTY INFORMATION:

<u>FAULT CODE</u>	<u>R.O. NUMBER</u>	<u>DESCRIPTION</u>	<u>TIME ALLOWANCE</u>
PD BC **	86.50.29	Replace antenna mast	0.10 hrs.

NOTE: Antenna masts are covered for defects in manufacturing only. Replacement of bent or broken masts is not covered. Antenna mast cleaning is part of routine service.