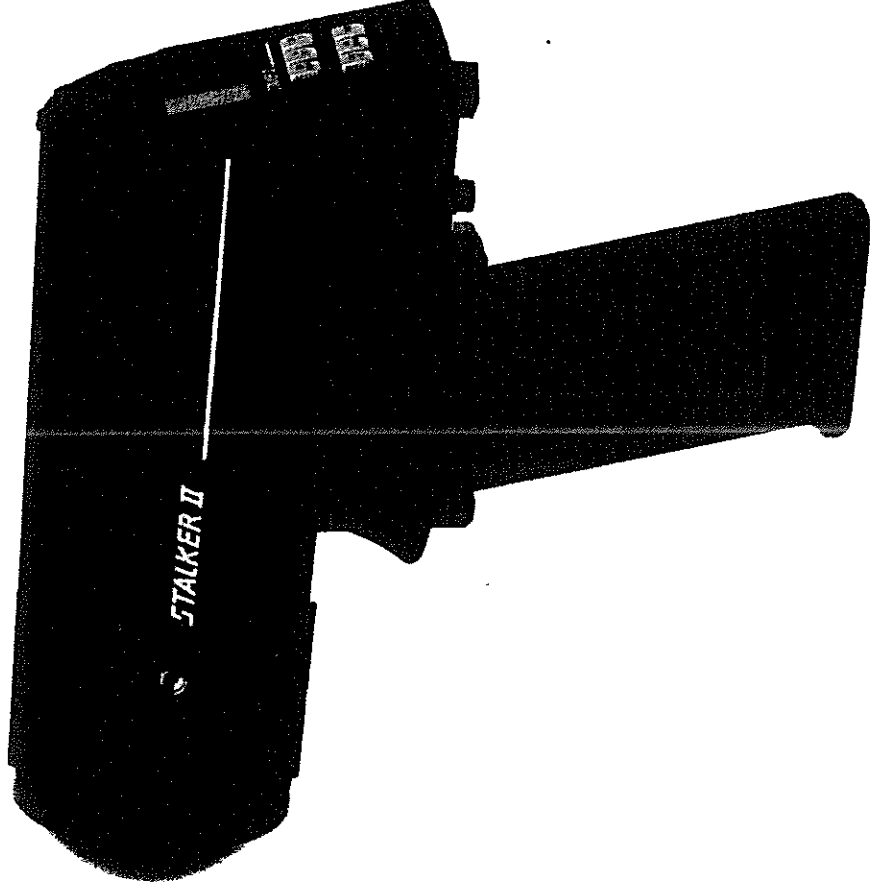


STALKER® II MDR

Moving Directional Radar



Operator's Manual

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STATIONARY MODE DIRECTION SETTINGS

Stationary Target Direction

SII Display Unit

Perform the tuning fork test on the radar before using for traffic measurements. See page 24 for instructions on this procedure. In stationary mode, targets closing and moving away can be monitored individually or simultaneously. To activate either target direction, press the **BOTH DIRECTION** key on either the **STALKER II** rear panel or remote control. The corresponding direction will illuminate in the Message Window. To activate the both target directions, press and hold the **BOTH DIRECTION** key. **FLLD**, **FRWY**, or **FBTH** (**RLLD**, **RFRWY**, or **RFBTH** for rear antenna) display icons will be illuminated. Fig. 15 illustrates the Closing target direction as active for the front antenna.

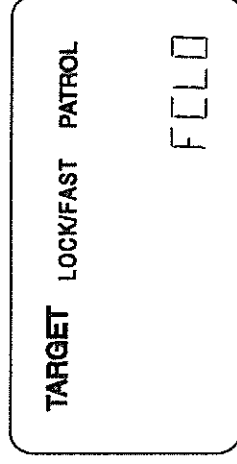


Fig. 15

Fig. 16 illustrates the Away target direction is selected for the front antenna.

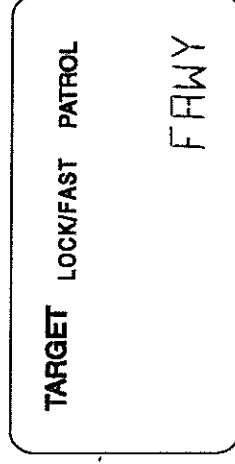


Fig. 16

Fig. 17 illustrates when both Closing and Away target directions are selected for the front antenna.

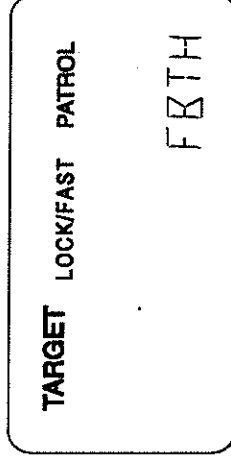


Fig. 17

The **STALKER II** can be switched into transmit mode by either pulling the trigger or pressing **XMIT/HOLD** on the remote control. Fig. 18 illustrates the **STALKER II** in transmit mode. In hold mode, the **XMIT** icon will be off (Fig. 19) and no signal will be transmitted, preventing detection by radar detectors.

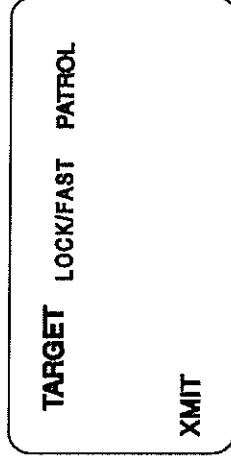


Fig. 18

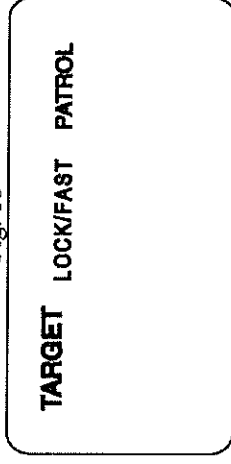


Fig. 19

BOTH-DIRECTION STATIONARY MODE

Having **FBTH** (**RFBTH** for rear antenna) in the message window indicates that **BOTH-DIRECTION** stationary mode is selected. To enter Both-Direction Stationary Mode, Press and hold the **BOTH DIRECTION** key on the **STALKER II** or the remote control until **FBTH** (**RFBTH** for rear antenna) appears in the message window.

While in **BOTH-DIRECTION** Stationary Mode, pressing the **LK/REL** key will lock or release the target. To exit **BOTH-DIRECTION** Stationary Mode, press the **DIRECTION** key on the remote, or on the rear panel.

INTERFERENCE SOURCES AND REMEDIES

A variety of sources, both natural and man-made, can cause misleading indications or poor performance. The operator should note the symptoms described below, and take steps to avoid the problem, or ignore the misleading indications.

Terrain

Radar signals will not pass through most solid objects, including tree foliage. Make certain the path between the radar and target vehicle is unobstructed. A glass window is a partial reflector of radar. Therefore, some reduction in range will be experienced when aiming through patrol vehicle windows.

Rain

Rain absorbs and scatters the radar signal. This reduces the range and increases the possibility of obtaining readings from the speed of the raindrops.

Electrical Noise

Electrical noise sources include neon signs, radio transmitters, power lines, and transformers. These influences may cause reduced range or intermittent readings. When these interferences are present, the RFI indicator should come on and suppress all readings.

Vehicle Ignition Noise

An extremely noisy vehicle electrical system may cause erratic operation. If this condition occurs, it is recommended that a two conductor shielded (fused) cable be run directly from the vehicle battery to the cigarette lighter plug on the dash. This should eliminate any problems from vehicle electrical noise.

HOW TO INITIATE A SELF-TEST

Self Testing Modes

SII Display Unit

Power-On Self-Test

Each time the unit is powered on, an automatic self-test is performed to verify that the unit functions. All displays indicate 8.8.8 (Fig. 34) during the test. A 4-beep "happy" tone indicates the successful completion of this test. If a problem is detected, **FR IL** will be displayed along with a 20-beep tone. Immediately after power-on, and while all display segments are illuminated, pressing the **TEST** key will display the software version and operating frequency.

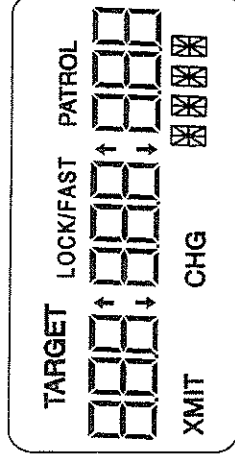


Fig. 34

Internal Circuit Test

An internal circuit test can be performed at any time by pressing the **TEST** key. This performs a diagnostic check on the radar (Fig. 35).

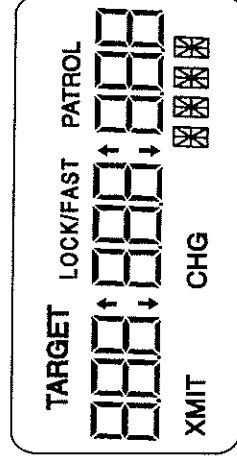


Fig. 35

The unit performs a segment test, processor check, memory check, and external accuracy check.

After all the tests are completed, **PR55** (Fig. 36) along with a 4-beep "happy" tone indicate successful test completion. **FR IL** along with a 20-beep tone indicates a failed self-test.

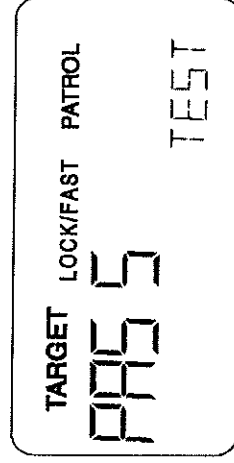


Fig. 36

After **PR55** is displayed, the radar goes into a 1-minute "fork mode" time interval (Fig. 37) that is used for the tuning fork tests (see Tuning Fork Test Section on Page 24).

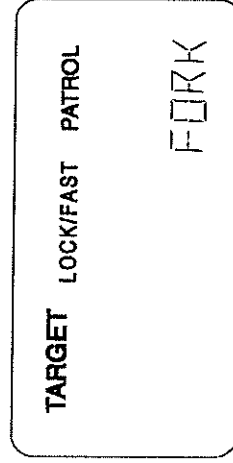


Fig. 37

Automatic Self-Test

An automatic self-test (indicated by a 4-beep "happy" tone) is performed every 14-15 minutes.

TUNING FORK TESTING

SII Display Unit

Tuning Fork Testing Modes Stationary Mode Tuning Fork Test

The following tuning fork test can only be performed during the 1-minute interval that follows the Internal Circuit Test. Press the **TEST** key on the **STALKERII** or remote control and wait for it to cycle through its internal test sequence. The presence of alternating **FBTH** and **FORK** in the message window indicates that the **STALKERII** is in stationary tuning fork mode (Fig. 42 and 43).

Two (2) tuning forks are supplied with **STALKERII**. The tuning forks are calibrated for 25 mph and 40 mph (40 and 64 kph).

To perform the tuning fork test: Turn the transmitter on with the trigger or remote control, then strike the 25 mph (40 kph) tuning fork against a hard nonmetallic surface, such as the heel of a shoe. ✱ Quickly hold the tuning fork approximately two (2) inches in front of the antenna, with the narrow edge of the fork facing the antenna. The target window should indicate 25 ± 1 mph (40 kph) (Fig. 44).

Repeat the above test with the 40 mph (64 kph) tuning fork.

Select the rear antenna, if present, and repeat both tuning fork tests.

To exit tuning fork mode before the 1-minute interval is over, press the **XMIT/HLD** key on the remote control to turn off the transmitter, or press the **STALKERII MENU** key to enter **MENU** mode and then press the trigger to exit **MENU** mode.

During VSS operation, the **TEST** key allows the **MOV/STA** key (normally disabled during VSS operation) to be used to switch between various stationary and moving modes as required for the tuning fork tests.

Note: We recommend that the tuning fork test be performed periodically. Some departments perform this test both before and after each citation. Check your department policy.

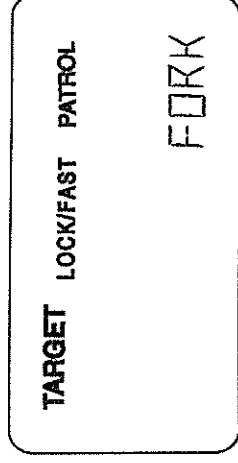


Fig. 42

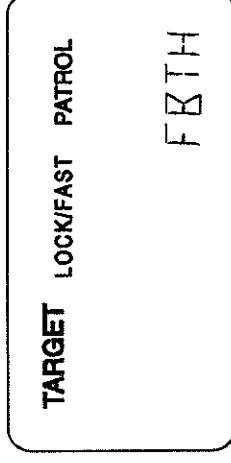


Fig. 43

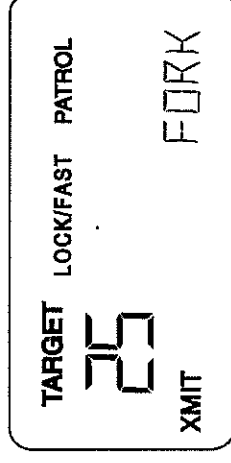


Fig. 44