

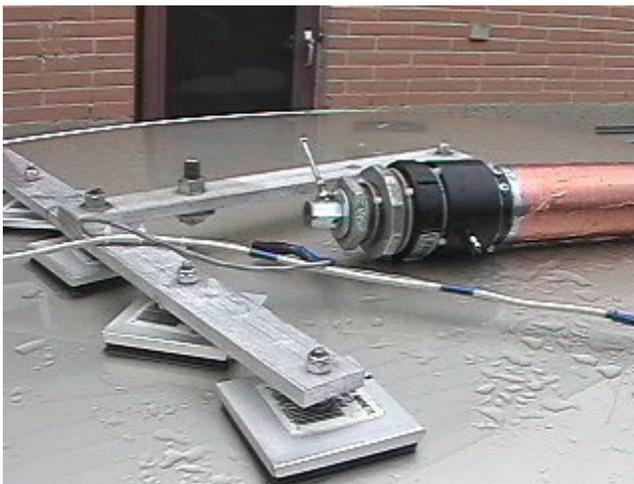
THE VE3GK PLASTIC, 3 TO 56 MHZ HF MOBILE ANTENNA.

[back](#)

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VIDEO OF THIS ANTENNA AND A PREVIOUS ONE IN OPERATION

THIS IS NOT A TYPICAL, SO CALLED, SCREWDRIVER ANTENNA, IT IS A DESIGN THAT I HAVE WORKED ON SINCE 1990. IT IS MOUNTED IN THE MIDDLE OF THE ROOF AND IS VERY CLOSE TO A TRUE ...VERTICAL GP ANTENNA, A HALF WAVE RADIATOR. THE OTHER HALF OF THE RADIATOR IS IN IT'S IMAGE IN THE BODY, [ROOF] OF THE VEHICLE. THE ANTENNA IS OMNI DIRECTIONAL AND REQUIRES NO EXTERNAL L-C NETWORKS FOR A 1 TO 1 VSWR, CONTINUOUS COVERAGE FROM 3MHZ TO 30 MHZ AND 6 M.



THE LOW PROFILE MAG MOUNT SYSTEM WITH 30 SECOND QUICK DISCONNECT.

INNER COAX CONDUCTOR SOLDERED DIRECTLY TO THE COPPER FOIL



THE BOTTOM HALF OF THE TUBE IS 2.5 INCH PVC PIPE AND IS TAPED WITH COPPER FOIL USED IN STAIN GLASS PROJECTS. THE TOTAL WEIGHT IS 4 POUNDS. **I FEEL FROM MY EXPERIENCE AND EXTREME WX CONDITIONS THE PVC PIPE IS STRONG ENOUGH FOR MOBILE OPERATION.**



NOTE THE SIX, THREE INCH SQ MAGNETS OFFER FIFTY FOUR SQ IN OF CAPACITIVE SURFACE USING THE CAR PAINT AS A DIELECTRIC TO THE ROOF TO ELECTRICALLY COUPLING THE REFLECTING GROUND PLANE. IN FACT, IF I LIFT THE ANTENNA OFF THE ROOF, SLIGHTLY, SIGNALS DISAPPEAR. VERTICALS USUALLY HAVE A LOW DRIVE IMPEDANCE AND I REALLY CAN'T RATIONALIZE THE VERY LOW REFLECTED POWER OVER THE ENTIRE . FREQUENCY RANGE. FROM SEVEN TO FIFTY THREE MHZ. I KNOW I CAN'T MAKE IT WORK USING SOLID WIRE, IT HAS TO BE **STRANDED.**

[80 METERS IS COVERED WITH A COIL IN SERIES WITH THE TOP OF THE COIL AND THE WHIP].



**THE 3/8 INCH KEYLESS CHUCK CAPER
C/W THE MARINE MAP CHART
WEATHER TUBE**



**NOTE THE COPPER FOIL TAPE WOUND
ON THE 2.5 IN OD PVC PIPE**

ON 7 MHZ

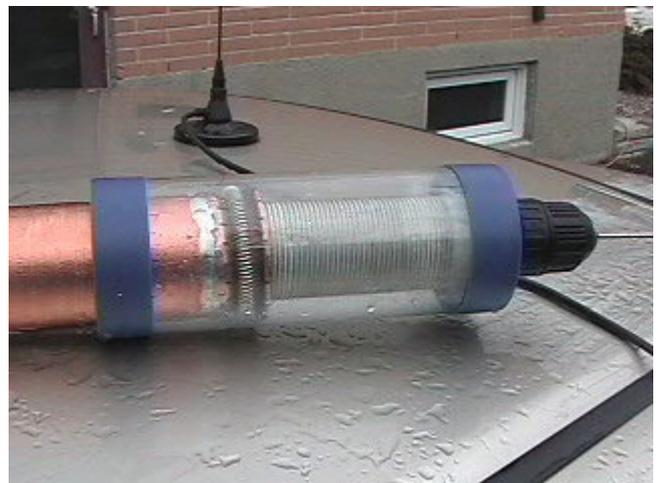


**NOTE THE COPPER FOIL TAPE WOUND
ON THE 2.5 IN OD PVC PIPE**

ON 14 MHZ



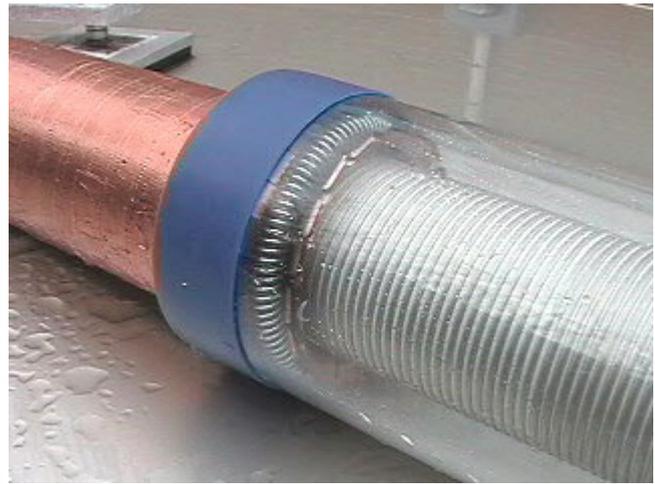
ON 28 MHZ



**VIEW OF ENERGY TRANSFER
COUPLING USING DOUBLE LAYER**

BRONZE FINGER STOCK**CLOSE UP VIEW OF 3/8 KEYLESS CHUCK**

THERE ARE UPPER AND LOWER LIMIT CLUTCHES TO ELIMINATE THE COIL FROM SPINNING AT EACH END. THE MOTOR CAN ROTATE ALL DAY LONG WITHOUT DAMAGE TO THE SYSTEM!



CLOSE UP VIEW OF ENERGY TRANSFER COUPLING. ALSO NOTE THAT THE COIL IS MADE UP OF **STRANDED WIRE** FOR THE OVAL SHAPE, ESSENTIAL FOR THE 1 TO 1 VSWR CONTINTIOUS COVERAGE OF 7 TO 53 MHZ MHZ.

STAY TUNED FOR MORE STUFF

[for a look at THE PROJECT JUST BEFORE THIS ONE \[ONE WEEK\] gk hb mag mount mobile click here](#)

[for a look at an earlier \[5 YEARS\] gk hb mag mount mobile click here](#)

73 GERRY VE3GK



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