

COUNTY LINE ROADRUNNER

Editor R. Dyson K0AYO 8943 S. Overhill Circle DeSoto Kansas 66018
(913-585-3212)

A Publication of the Mobile Amateur Radio Awards Club, Inc.

An ARRL Affiliated Club

SSB Net 14.336 CW Net 14.056.5

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Jan 1, 1992

Net Operating Tips

By Mitch, W4RKV

All of us are aware that under FCC rules no one amateur, or group of amateurs, may claim the exclusive use of any frequency however, once established on an unused frequency we have the right to its use reasonably free of adjacent channel QRM. But in today's crowded bands, the term "reasonable" should not be construed to mean "clear channel" where no other station should get within 5 kHz of us.

The current state-of-the-art seems to dictate a bandwidth of about 2.1 kHz for SSB voice communications, and that is the general rule of thumb I use when acting as NCS. If another station starts up on 14.334 or 14.338 and is strongly interfering with me, I may go and REQUEST that if possible he move a little farther away. But as long as he is 2 kHz (or more) away, I don't feel I have the right to DEMAND that he move. If he is buck shotting or otherwise overmodulating, I may request that he turn his mike gain down a little, or perhaps turn his amp off, but I will always put it in the form of a request and abstain from making any demands.

ACROSS

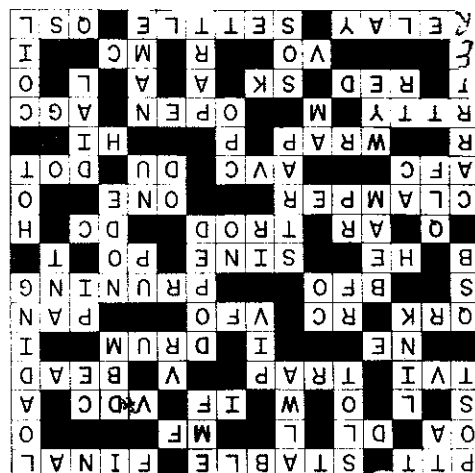
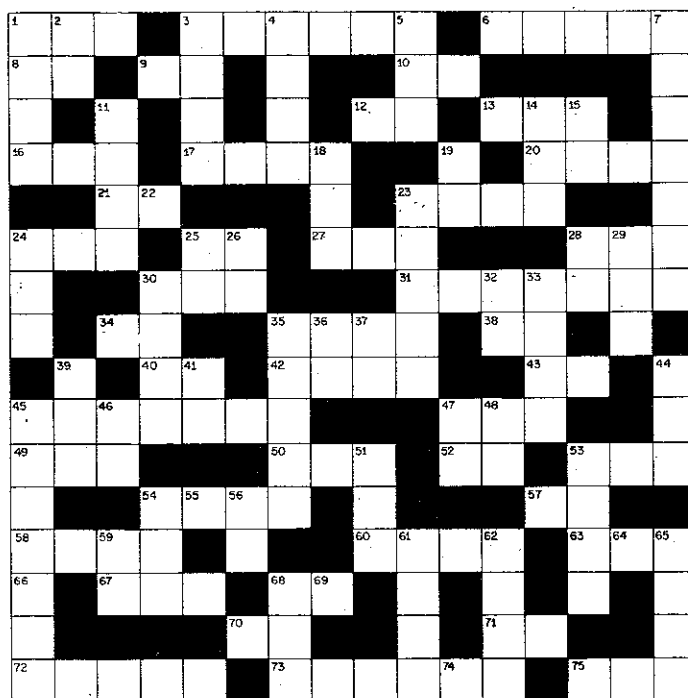
1. Push to talk
3. What a v.f.o. should be
6. r.f. output stage
8. Peruvian prefix
9. German prefix
10. Unit of capacitance (abbrev.)
12. 455 kc.
13. Voltage rating
16. What a 21 mc i.f. may lead to
17. — dipole
20. Ferrite — r.f. choke
21. Neon
23. Ear —
24. Send faster
25. — time constant
27. Not for a Novice
28. — adaptors are for checking a spectrum
30. For c.w. and s.s.b.
31. Cutting to size
34. Liechtenstein prefix
35. — wave
38. Power output (abbrev.)
39. — signals
40. End of transmission
42. Walked on
43. a.c. —
45. May save your final(s) from burnout

47. Maximum number of kilowatts to the final stage
49. Automatic frequency control
50. Automatic volume control
52. Philippine prefix
53. — dash means "A" on paper
54. — with tape
57. Dominican Republic prefix
58. Requires typing
59. — circuit
63. Automatic gain control
66. Letter symbol for current
67. Color representing "two"
68. End of QSO
70. Canadian prefix (not VE)
71. Megacycles
72. Antenna switching —
73. A v.f.o. must — down quickly for use on s.s.b.
75. Special postcard

DOWN

1. Binding —
2. Turkish prefix
3. Skeleton — antenna
4. Thomas — Edison
5. Electromotive force

7. "Check the —"
11. — coupling
14. A voltage level on a 500 ohm line may be measured in —
15. Chilean prefix
18. Diode rating
19. OA2
22. Voltage symbol
23. Certain semi-conductors are — with arsenic.
24. Fading
25. An — probe may be required by your oscilloscope for certain measurements.
26. Cuban prefix
28. Many transmitters use a —network in the final stage
29. Antenna
30. Three element —
32. Opposite of down.
33. What may be found in a radiation pattern
35. Grounding —
36. — drop along a resistance
37. Normally open
39. Now try sending with your left foot
41. Plate resistance
44. — side of the line
45. To be suppressed in s.s.b. and d.s.b.
46. 117 volts 60 cycle —
47. Outside diameter (abbrev.)
48. The thirteenth letter of the Greek Alphabet
51. Code practice oscillator (abbrev.)
53. Telephone —
54. Three phase power may be supplied by a — or delta connection of generators
55. Received OK
56. A carrier plus two sidebands equals —
59. A — switch may replace an antenna switching relay.
61. Component
62. Handle
64. Letter symbol for conductance (opposite of resistance)
65. Inductor
68. Distress signal
69. Go ahead



Members Speak!

VK5AQZ, Graham -- Hello and Giddy from Down Under. I thought it opportune to drop you a line. Hopefully by the time you read this the flag will be flying in Australia for the first time.

I commenced the award program in April 1988 and worked my last county (officially) in August 1991, a period of 3 1/4 years. My last re-work 14th Sept was W0LRH in Pennington MN although W7KEU (Wichita Co KS) KU0A (Washington Co IA) KB3GN (Jefferson Co WV) will remember my reworking them early in September. To these gentlemen in their mobiles my appreciation and thanks. I received a phone call from my QSL manager, KJ5W, on the 16th Oct at 1227Z who informed me that he had received my last MRC and that..."I was HOME free". In time I would like to seek endorsement for working all mobiles with 65 contacts to complete this task.

I would like to thank the many "beaut" amateurs that helped me through program. To Mac, my QSL manager a huge thank you, W4GGU, N7BKW, WA4IMC, the net controls K1QPV, WA4KER, W4RKV, and others. To the guys and gals who went out of their way for me again many thanks and finally KD8GL for responding to my last MRC, fantastic. I feel I have made alot of new friends via the net and hope to see some of them next year.

Whats in the future:

- endorsement for working all mobiles
- knock off Tim's award...looking good
- work 1000 YL contacts (got 700 so far
- KK7X, K5OUK, WA4IMC, their awards and more??
- invite a plane load of mobile tourists to Adelaide, SA
- show the big awards to the ankle-biters at my school
- hopefully visit Hampton VA next year, convention time
- work mobile stateside and have a go as net control and make more mistakes than Von, RQO (HI).

I think that is the lot for the time being, not sure whether I will set forth on the second trip around.

If you didn't realize by now, I'm really rapped about the whole program, the total professionalism of the outfit and the people around the world who have helped me through the rough spots of propagation, QRM, etc. Cheers to all, Graham.

VE1AIT, Lin --I have updated the COUNTY program again with some features which should make it considerably more user friendly. The most significant improvement is that it is no longer necessary to input the contacts in sequence by date. This makes it possible to use the program for logging new contacts while putting in previous contacts at your leisure.

There are two versions of the program available - a faster operating one which requires a 720K disk to put it on, and a slower speed version which can be put on two 5 1/2 360K disks. The two programs are identical in all respects except for operating speed. They are available free of charge. Please include the Latitude and Longitude for your QTH for the calculation of antenna bearings to the center of each state. Send requests (disks? -editor) to G L Titus Comp 9 Site 20 RR 3 Fredericton NB Canada E3B 4X4.

For CW Ops By W0HKF

Clark county is in the heart of WI, where N9GHZ recently described in the local radio club bulletin a method of beating Breathalyzer tests with RFI. He didn't know that N9MCH is a judge in the same county and the judge, upon reading the article, warned his county mounties to be on the lookout for mobile radio hams driving while under the influence.

In a recent episode of "Secrets Of The Unknown", a popular CBS television show set in Texas, there was a sign on the sheriff's office door saying "Ennis County". It probably fooled the average couch potato viewer but any County Hunter would have known at once that it was a play on Ellis County, Texas.

Howcum?---W8QZB has such a hard call to copy on CW? He lays out a strong signal with a good fist, but time and again he sends his call and all the mobile says is QRZ? On December 8, W8QZB had to send his call 7 times before W3EYF/M got it right. And howcum when no signal on the CW Net is more than S3 you can tune down to 14336 and hear all kinds of stout S9 calls coming in? Are there still some unknown phenomena in ham radio besides the fudge factor in DX reports and the well-known but still unexplained one-way skip?

The Roadrunner scored a first when it advertised a Yaseu FT-767GX rig for sale which was "owned by a non-smoker". Is this a portent of things to come? Will hams who smoke soon be unable to sell their smelly old rigs to anybody?

The heavy early December snowfalls in the midwest put the damper on any extensive mobile activity. On December 1st the ground was still warm and the first two or three inches turned to slush, then to ice and was covered by two more feet of snow. The plows removed the snow OK but the ice was left to gradually break up into pieces in a checker board pattern over which cars bounced in a most alarming manner. The joke going around was "do you know why they call this a winter wonder land?" And the answer was "because you always wonder where your car is going to land!"

County of the Month -- Door County, WI, so called because it considers itself the "door" to Lake Superior's Green Bay. It's 100% tourist supported and a wonderful place to visit, but don't go there and expect to find a motel room or parking place between Memorial Day and Labor Day without prior reservation!

Silent Keys

With sadness we mark the passing of the following MARAC members. Our heartfelt sympathy to their families and friends.

Cleo J. Mahoney, ~~WA0SHE~~ MARAC C-4, USACA 42, passed away on Dec. 10, 1991. Cleo was a founding member in MARAC and very active for many years in several other local KC area radio clubs.

Wally Karjalahti, ~~KB0XB~~ MARAC R-503, USACA 293 passed away on Dec. 7, 1991. His support and efforts for the County Hunters will be remembered and appreciated.

George Challenger, ~~K5GO~~ MARAC R-781, USA-CA 231.

A Message From The MARAC Headquarters Group

As many of you are aware, the headquarters group for the MARAC organization has resided in the Twin Cities of Minneapolis-St Paul since 1981. During that time the club has experienced unprecedented growth and is recognized and respected worldwide in the ham radio community.

As is common for many groups such as ours, the responsibility for the day to day activities of the club has fallen on a very small group of people. By no means, does the headquarters group carry out all the important functions of the club, but we are pleased and proud of all we have accomplished over the years.

During the past several months, the group here in Minnesota has had several discussions regarding the long term future of the headquarters group. Given the overall excellent health of the club, and the length our tenure as the headquarters group, we felt this would be an appropriate time to announce that we will step down as a group and not run for an additional term when our current term expires in July, 1993.

During the next eighteen months, we will continue to support and run the club as usual. We will do everything we can to assist any group that would like to continue on when our term ends as mentioned above. If any of you would like to inquire as to what is involved in putting together a headquarters group, please contact Don, WA0LKL, our club president, and he will be happy to answer any questions you may have.

It has been a honor and a privilege for all of us here in Minnesota to serve such an excellent group of people in our county hunting family. You will continue to hear us on the air and see us at our many conventions for many years to come.

73. MARAC HEADQUARTERS GROUP

FROM THE SECRETARY

If your mailing label indicates 9201 or 9202, it is time to renew. Dues with 1st class mailing of the Newsletter are \$16/yr. Dues with 3rd class mailing of the Newsletter are \$13/yr. Note that 3rd class mailing is available within the US only. Dues with the Newsletter mailed Air Mail to all continents other than North America are \$25/yr. Multiple year renewals and SASE's with renewals are also very much appreciated. Please make your check or money order payable to MARAC and mail to the Secretary, Shel Mann, N0DRX, 1618 Pine St, Stillwater, MN. 55082.

MARAC INFORMATION PACKET

Get the word out to potential new members and interested County Hunters that a County Hunting Information Packet is available. The Information Packet includes information about MARAC, QSLing, Net Operation, County Hunting supplies, etc. Send the request with a business-size envelope with 29 cents postage to:

MARAC Box 64 Newport, MN 55055.

Europeans can get the Information Packet from Eddie. G4KHG.

Name That C. H.'er By Duane, WV2B



This month's county hunter says he got started county hunting about two years ago during a moment of temporary insanity. He sticks with it because he enjoys making friends who keep him from getting lonely on the road.

He works as a longhaul trucker, but used to own a printing business out in the golden west. He uses an Icom IC-725 to run counties while driving across the country.

He currently is working on the USA-CA award and Bingo, and holds WAS on 75 meters with all Extra Class calls.

He became a licensed amateur in 1977, converted from CB radio operating. he is interested in packet/digital operating.

When he is not traveling or county hunting he pursues his other hobbies of computers, photography, and reading.

Do you recognize this county hunter? If not, see next months article for his identity. Thanks to W0ULU for this month's photo.

Featured last month were these county hunters, left to tight: W2EZ, KA2CNG, NO2W, KC2CK, KA3ZGA, N3ERE.

Minutes of the MARAC December Meeting

The December meeting was held on the 14th at the Holiday Inn East, St. Paul, MN. President Don, WA0LKL, called the meeting to order at 9 A.M. Also in attendance were: W0NNH, WA0RJJ, WB0UPU, N0DXH and N0DRX.

Motion was made by Bill, WA0UPU, to accept the Secretary minutes of the last meeting held on Nov. 16th, seconded By Vern, WA0RJJ, passed.

As the Treasurer was unable to attend this meeting, the Treasurer's report was deferred to a future meeting.

The Secretary reported on the following items: 1) We are still awaiting delivery of the postal meter, which was to have been delivered in mid-October. Follow up 3 weeks ago revealed that the supplier of the meter had misplaced some of the paperwork. 2) The Liability insurance has been applied for and when the final policy arrives, a copy will be sent to our Legal Counsel, Joe, KA9HCA. 3) New "renewal reminder cards" have been received, printed complimentary by Paul, AA0FV.

Jerry, W0NNH, distributed copies of the new, updated MARAC Info Packer. Editing and printing of this packet was done complimentary by Bill, W0OWY.

We thank both AA0FV and W0OWY for their contributions.

The next two MARAC meetings are scheduled for January 11th and February 8, 1992 at the Holiday Inn East, St. Paul, MN starting at 9 A.M.

Motion to adjourn was made by WB0UPU, seconded by W0NNH, passed.

Respectfully submitted, Shel Mann, N0DRX, Secretary.

Results of Quarterly Vote For Best N/C and Mobile

Following are the results of the most recent quarterly voting for Best N/C and Mobile operators.

Best N/C SSB

1st - TIE - W4RKV, NT9V
3rd - KD4BRO

Best Mobile SSB

1st - WA4NBC
2nd - WA0SBR
3rd - KK7X

Best N/C CW

1st - WA6VJP
2nd - TIE - N5DKW, KA3MMM

Best Mobile CW

1st - N0CYB
2nd - W3DYA
3rd - WA9QNI

Address Changes, New Calls, Corrections

MOBILE QSL BUREAU RT 3 BOX 400 TIMMONSVILLE
SC 29161 !!!

R2258 NU9M P O Box 172 Rushville IN 46173
R1914 KM4HW 8620 - 190 NW 13th St Gainesville FL
32606-1027
R2053 K8IXU NEW Zipcode 49006-4346

R213 W6LWM NEW Zipcode 92009
R773 AI5P USDEL NATO Box 86, APO Cascade MD 21719-
1061
R793 AA0FV New Zipcode 63552-0303
R1729 K7EQ 1152 Catalina Blvd San Diego CA 92017-3902
(San Diego)
R1843 KC3X NEW Zipcode 09777-9200
R1906 N5AWE NEW Zipcode 78537-9804
R2080 W4BWR 7-A Venetian Way Indian Harbour Beach FL
32937 (Brevard)
R2188 KI6YX 4316 West Lawn Ave Los Angeles CA 90066
(LA)
R2208 W4HMY NEW Zipcode 45434-6535
R2270 VE3EEM 27 Stewart St Strathroy Ont, Canada N7G 1A1
R2292 WA5OPO 177 Welsch Lane Gun Barrel City, TX 75147
(Henderson)
R2328 KA0FKR 391 North Shore Dr Forest Lake MN 55025
(Washington)

New Members

R2437 WD8IDD Patricia Larson P O Box 360541 Strongsville
OH 44136 (Cuyahoga)
R2438 KA0QGW John Snider 200 Jetta Mae Scott City MO
63780 (Scott)
R2439 WA1SUH Tom Whitten 31 Blackberry Hill Rd Berwick
ME 03901 (York)
R2440 WA5NRT Ward Trammell Rt 4 Box 1 Colcord OK
74338-9401 (Delaware)
R2441 N5UWA Larry Sumners 48 Hickory Hollow Lufkin TX
75901 (Angelina)
R2442 W8ISU Bob Ballentine P O Box 149 Warren OH 44482
(Trumbull)
R2443 WA2MUA John Miller 1879 Willis Ave Merrick NY
11566 (Nassau)
R2444 WB4UHI Mark Hughes Rt 4 Box 2515 Orangeburg SC
29115 (Orangeburg)
R2445 N7OTR Bill Baxter 402 E Jacinto St Tucson AZ 85705
(Pima)
R2446 K4HKX Paul Webb 410 S. Youpon Clute TX 77531
(Brazoria)
R2447 WB0VIV Francis Heath HC 74 Box 22 Cody NE 69211
(Cherry)

Convention News

N8EMV advises that the Michigan Mini will be held on
April 24th and 25th. Further details will be in the February
Roadrunner.

Jerry, WD5JGS, has suggested that there be an Awards
Workshop at the Texoma Mini (see announcement elsewhere) to
which Bill, W0OWY has agreed. In order to have a workshop,
one should come up with a list of topics to cover. Therefore,
would you drop Bill, W0OWY a note and let him know what
topics or subjects or awards questions you would like answered
if we have the workshop. Please give him ample time to
prepare rather than waiting until Texoma. Discussion on
existing awards or suggestions for new awards will be
appropriate. Several members of the Awards Committee are
planning on being in attendance.

Jerry also says that there will be ample time to present Award
Plaques and Certificates as appropriate at the Mini. So if you
would like to have awards presented, be sure to drop Bill,
W0OWY a note and let him know insufficient time to have the
awards prepared. He will leave Phoenix on March 3rd.

WANTED

Wanted - Kenwood TV-506 6 meter transverter. Also 6KD6
vacuum tube. Q. R. Galbraith, K5TVC 4303 Kingsway Dr
Farmington NM 87402.

USA-CA Special Honor Roll

Our congratulations go to the following County Hunters who have earned a place on the USA-CA Special Honor Roll, sponsored by CQ Magazine.

W0WYJ #734 11-25-91 K5TVC #735 11-30-91 VE3FNM
#736 11-30-91 KC4DUP #737 All SSB 11-30-91

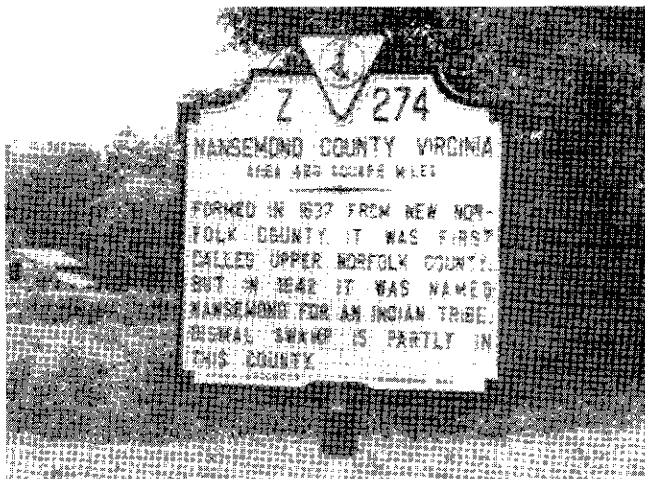
Counties For Special Needs

NFOX For All 20M Mobile CW Only 417-745-6613

AL Autauga Winston IS Taylor Union KS Rawlins LA
Sabine PA Fayette Somerset WV Mason Wirt WI Door

Members Speak!

KA3DRO, Ron -- In recent conversation in MMM Convention I discussed this county (see photo) with W0FF. He knew of it having lived in area some years back. It is located at Gates NC, line with VA Isle of Wight.



At any rate, I thought some of the county hunters may like to see the sign as the county is no longer there. From info on the sign it has evolved through three other name changes. Question becomes--has any other county changed names so often?

K4ELK, Walt--It is generally recognized that as a person ages certain organic changes occur. The hair turns grey (usually), the nose and ears continue to grow, etc. What does not seem to be recognized is the medically accepted fact that in the aging process the ability to distinguish consonants is diminished or even lost. For that reason it is useless to tell us older types to be more alert, listen harder or whatever. If we are familiar with

your call there is no problem but if we are not and it contains some consonants we will probably get it wrong (of course, some young people have this problem also). And as Mitch suggested recently in the Roadrunner only standard phonetics should be used. The use of non-standard "cute" phonetics just causes confusion. Of the two more or less standard ones, the ABLE, BAKER set is the faster but the ALPHA, BRAVO is better recognized worldwide and better overcomes accent problems.

KC3QC, Geoff -- Recently, being "between jobs" thanks to the current economic climate, I have had the opportunity of checking in on the 14.336 net during the daytime. I find it very disturbing when a Net Control says he has to QRX and asks for someone to take over, and no one will! He has been running a very active net for many hours with a large number of fixed stations collecting counties, but no one wants to help out. Why?

I know there are many reasons, and they may not always be obvious. TVI could be one factor, the lack of time another, but the latter cannot be claimed by someone who has sat on the net all day long. Another reason may be associated with the less fortunate, who may suffer some disability. However, the most "popular" disinclination may be due to the operator feeling just plain scared to take it on. I was very apprehensive the first time I tried, but it really wasn't that bad. I got fixed helpers in TX and CA, and all the mobiles running helped in their own way. I want to tell you, I felt good after that first time, I may have messed up a few times, but it saved the net from the dreaded works "the net is in open session!"

I accept that there has been criticism because a net has not been run properly according to some, but allowances should always be made for the reason. In any case, where else can the experience be gained? Only by mistakes can perfection be achieved! To those who criticize I say "Show me how it should be done!"

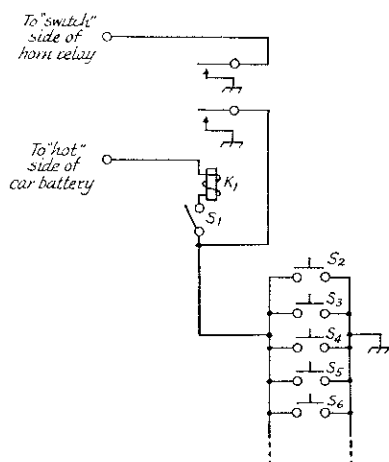
Nevertheless, there is no need whatsoever to be worried because you may have been "lumbered". Better to take advantage of the power that you have assumed and show that you in CONTROL. It is very unlikely you would be able to wield such power elsewhere in your own household as you do behind the closed doors of your shack, especially if you are out of earshot. Joking apart, some large nets have been controlled in a very expert manner by someone new to it. This should give some encouragement to those who tend to reap all the benefits without "paying their dues".

In county hunting we should all play a part, the mobiles certainly put extraordinary amounts of time and money into it. As a fixed station, interested in getting your certificate, what do you give? Think back to the last time you heard that deadly silence following a plea from a controller who has to go. It is truly amazing how many people suddenly acquire that same need to go. Usually someone takes over, but it's the same ones most

of the time. Give a thought for the mobiles who may be hanging around waiting for help. After all they're listening, and waiting. It is not very encouraging for them is it? They must feel that the efforts they are giving is a little one-sided, and not being reciprocated. I hope in the future that I can take a more active part in helping all of us to enjoy our quest for the elusive certificate, but to all fixed stations I say: "Let's avoid the words the net is in open session, even if you can only help for a short time."

Mobile Burglar Alarm

The circuit below is an inexpensive, simple, yet effective alarm for protecting against theft of mobile equipment including the mobile. When "S1" is closed to the "ready" position, the alarm is armed and opening any of the car doors, hood or trunk or anything protected by "S2..." will actuate the car horn, which will give an audible alert. The horn will continue to blow, even if the door, etc, is closed. "S1" is a key switch and should be located at any convenient spot on the outside of the car. Mercury-type switches could be used on the hood and trunk. Once the system is activated, it can be stopped only by the opening of "S1".



—Alarm system for protection against theft of mobile equipment.

K₁— 12-volt relay, d.p.s.t.
S₁—Key switch, s.p.s.t.
S₂—S₆—Normally-open button switches.

Volunteers Wanted

(Thanks to the DX Bulletin, Author W4BAA and ARNS Newsletter)

Our radio club is planning a DXpedition (Editors note: county expedition) to one of the "Most Wanted" countries (Countries?) on the list. In order to be certain this operation

corresponds with current practices surrounding rare operations these days we require the aid of accomplished volunteers in the following areas:

TUNER-UPPER: Three from each call area who can work split shifts to be certain someone is tuning up on the frequency at all times.

RESEARCHERS: To come up on frequency to ask germanin questions as "What's the call? "QSL Info? " and "When you going to work 160?"

DYSPECTICS: To make rude and silly noises on frequency.

RESTLESS HAMS: Who will demand that we work the 6's and 7's or whatever we aren't hearing now.

PATRIOTS: "Work the Americans", to endear us to hams the world over.

HEARING IMPAIRED: Several in each call area to call when other calls are specified. For example, when asking for the W9 and the KH4 replies.

A DEMONSTRATION SUPER-STATION; To break the pileup at least once a day with his laser-like signal and carry on essentially as follows: "Good morning, Gopal, (Ted). This is your old friend Bill (Francine) in NY (OH). It's nice to work you again today.. Your signal is a little weaker than when I worked you yesterday. I haven't heard Baraty (Nancy) since Wednesday and hope that he (she) is well... etc... etc." (this is intended to impress all those waiting on frequency, but actually gives us time to refill the gas tank.)

Here is your chance to make a real contribution to DX (county hunting). Please don't let us down. Submit call and references. Winners will be announced prior to our departure.



MARAC SOUTHCENTRAL DISTRICT MINI

ANNOUNCING: The 1992 Southcentral District Mini

DATES: March 6th, 7th and 8th, 1992

LOCATION: Lake Texoma Resort, Lake Texoma, Oklahoma - Near the TX-OK border on US 70
(Note: RV Space is available at the Resort)

DIRECTIONS: HWY US 70 13 miles West of US 75 at Durant, Oklahoma

ROOM RATE: All Rooms \$40.00 / Night + 5% Tax. A block of 60 rooms will be held until Feb. 6th.
After this date, rooms at the same rate AS AVAILABLE

RESERVATION: Write LAKE TEXOMA RESORT, Box 248; Kingston, OK 73439. Tel. (405) 564 - 2311

ACTIVITIES: Golf tourney Friday Morning. Awards Workshop and Presentation by WØOWY Friday 1:00 PM. Choctaw Indian Bingo Friday Evening 5:30 PM. Antenna Forum by W9UCW 9:00 AM Saturday. MARAC Meeting 1:00 PM Saturday Afternoon. No Host Dinner at Sanfords Thursday or Friday evening if enough are interested. Indicate on Registration form how many to attend. (Note: If you missed the Potato Soup last year, you had best try to make it this year).

HOSPITALITY: Opens early Thursday, hosted by Joyce, WB9NUL

PRIZES: ALL PRIZE DONATIONS WILL BE APPRECIATED

DINNER: Saturday Night Dinner, Buffet Style \$17.00/person. Includes choice of two meats, vegetables, salad, dessert and drink.

**REGIS-
TRATION:** \$12.00 for OM/YL or \$9.00 single. Registration includes Name Tag, Group Photo and Drawing for any prizes

COMPLETE FORM BELOW AND SEND WITH
REGISTRATION FEE AND COST OF SATURDAY NIGHT DINNER TO:

JERRY L. WEAVER, WD5JGS
RR #1, BOX 267
DENISON, TEXAS 75020
Tel. (903) 463 - 3231

1992 SOUTHCENTRAL MINI CONVENTION REGISTRATION FORM

NAME _____	CALL _____	USA-CA _____
SPOUSE _____	CALL _____	USA-CA _____
ADDRESS _____		
CITY _____	STATE _____	ZIP _____
REGISTRATION FEE _____		
BANQUET... _____ (#) AT \$17.00 _____		
TOTAL ENCLOSED _____		
CHOCTAW BINGO # _____ SANFORDS Dinner # _____		

1992 MARAC SSB COUNTY HUNTERS' CONTEST

0000z Saturday April 11 to 2400z Sunday April 12, 1992

The Mobile Amateur Radio Awards Club is pleased to sponsor the 21st Annual County Hunters' SSB Contest. Mobile and fixed operation from every county in the U.S. is welcomed, and operation from less active counties is encouraged. Fixed stations may be worked only once on each band. Mobiles may be worked each time they change counties. Mobiles operating on county lines count as one contact, but each county may be a separate multiplier. (Mobiles must identify by signing /M after their call.) To be eligible for an award, a station must not operate more than one transmitter at any one time.

EXCHANGE: Signal Rpt, County & State for U.S., Province or Country for others.

SCORING: QSOs with fixed US/Canadian stations are worth 1 point; mobiles are worth 15 points. US/Canadian contacts with DX are worth 5 points. Contacts with stations operating under a "net control" are invalid for contest purposes. FINAL SCORE = total QSO points times (X) total number of U.S. counties worked.

FREQUENCIES: 3.880, 7.240, 14.270, 21.340, 28.340 MHz. Fixed stations should work above the suggested frequencies and allow low power mobiles to operate below the suggested frequencies.

AWARDS: Certificates to winning stations as follows:

- Fixed stn in each state, province, and country with 1,000+ points
- Mobile in each state operating in 3 or more counties with a minimum of 10 contacts from each county

MARAC plaque to 1st & 2nd place mobile in the U.S., highest scoring North American fixed station, and highest scoring DX station scoring at least 50,000 points.

Mobiles who change states should calculate their scores (1) for individual state certificates and (2) for total score for the overall plaque. Total overall score must not count a county as a multiplier more than once regardless of the location or frequency.

A check sheet of counties is required for entries with 100 or more counties worked. Completed logs, summary sheets, and check sheets must be received by May 12, 1992 to Barry Brewer, WA5DTK, 5518 12th Street, Lubbock, Texas 79416.

MARAC

THIRD ANNUAL TEN METER CW AND SSB QSO PARTIES

OBJECT: For amateur stations worldwide to exchange QSO information on ten meters with as many mobile and fixed stations in as many U.S. counties, Canadian provinces and DX (non W/VE) countries as possible. Any station can contact any station.

CONTEST PERIOD: CW - 1200Z, Feb. 22 to 2400Z Feb. 23, 1992
SSB - 1200Z, Feb. 29 to 2400Z Mar. 1, 1992

FREQUENCIES: CW - 28.150 - 28.300 CW Mobile Window - 28.155 - 28.165
SSB - 28.330 - 28.500 SSB Mobile Window - 28.340 - 28.400

Mobile stations will be calling within these windows and fixed stations are asked to refrain from calling "CQ" within these windows. After making Mobile contacts within the Mobile window, fixed stations should QSY outside the window to work other fixed stations. CW-OPS: QSO Part is in the 10 Meter Novice Sub-Band; please QRS when necessary.

CATEGORIES: Only single operator mobile or fixed stations are eligible. One person must perform all operating, logging, and spotting functions.

EXCHANGE: Signal report, station designator (F for Fixed, M for Mobile) and location (US County, Canadian province or DX country).

SCORING: Final Score = Multiplier X Contact Points.
Multiplier = Total number of US counties, Canadian provinces and DX countries. (US and Canada excluded)
Contact = 10 for each contact with a mobile
Points = 1 for each contact with a fixed station

MISCELLANEOUS RULES:

1. A mobile may be worked in each county, province or DX country it travels through.
2. Mobiles on county, province or country borders count as one contact (10 contact points) and 2 multipliers.
3. Fixed stations may work other fixed stations only once for scoring credit.
4. No net, prearranged or repeater contacts will count for scoring.
5. No relayed information or assistance will be allowed from valid contacts.
6. Portable stations follow fixed station rules for scoring.
7. A station signing mobile must be capable at all times in the contest period of transmitting and receiving in motion with no connections to stationary power lines, generators, antennas or other objects.
8. Remote control is not allowed.

LOGGING DATA REQUIRED: Date - Time (z) - Station worked w/designator (M or F) - Report exchanged (Min. acceptable report = 2X2) - County & State (Province for Canadian stations & Country for DX stations) - Claimed points - Multipliers (each new county, province or country must be consecutively numbered in the log).

SUBMISSIONS: Every station must submit a complete log. Duplicate contacts may remain in log as long as they are marked as DUPE and not used in scoring. All logs must be on 8½" X 11" paper. Legible computer printouts are acceptable. A check log would be appreciated. Novice / Tech. stations must identify themselves as such to claim any award. Blank logs (3), summary sheet and info are available for a #10 SASE with two 29 cent postage stamps to:

JOYCE BOOTHE, WB9NUL
Rt. 6, Box 748 A, McLelland Rd.
Harlingen, TX 78552
Phone (512) 423-8660

AWARDS: MARAC Plaques to highest scoring US Mobile; highest scoring Fixed US Station; Highest scoring Fixed Canadian Station; Highest scoring Fixed DX Station. Certificates awarded to the 1st, 2nd, and 3rd place Mobiles, Top Fixed Station in each State, Province, DX Country. Highest Scoring US Novice/Tech. stations both Fixed and Mobile. Special awards may be issued as warranted. All logs and the participant comments submitted become the property of MARAC and may be reprinted without contestants permission. Minimum contact points for awards - 10,000 points for plaques and 1,000 points for certificates.

DEADLINE: All entries must be received by WB9NUL no later than April 7, 1992.

Suggest DX Stations use Air Mail. Winners will be published in MARAC's County Line Road Runner Newsletter or a personal copy of the results may be obtained for a #10 SASE with 29 cents postage to WB9NUL.

MARAC

COUNTY HUNTER'S QSO PARTY LOG

STATION _____ BAND _____ MODE _____ PAGE _____ OF _____

[illegible]

SUMMARY SHEET THIRD ANNUAL TEN METER MARAC QSO PARTY

NAME _____ CALL _____

ADDRESS _____ CITY _____

STATE _____ ZIP _____ COUNTY, PROVINCE, COUNTRY _____

Circle Class of Entry: MOBILE DX FIXED NOVICE/TECH

Circle Mode of Operation: CW SSB

SCORING

NUMBER FIXED STATIONS WORKED X 1 POINT =

NUMBER MOBILE STATIONS WORKED X 10 POINTS =

TOTAL POINTS

TOTAL # OF COUNTIES, PROVINCES, & DX COUNTRIES (Multipliers) . =

TOTAL MULTIPLERS X TOTAL POINTS = FINAL SCORE

Send Summary, Logs, County List to: Joyce Boothe, WB9NUL
Rt. 6, Box 748A
Harlingen, TX 78552
Phone (512) 423-8660

Your Comments:

For more info about MARAC Awards, send #10 SASE with 29¢ postage to:
Mobile Amateur Radio Awards Club, Inc.
P.O. Box 64
Newport, MN 55055

INSTALLATION GUIDELINE
(refer to the enclosed figures during installation)

1. Transmitter Location

- A. Locate transceiver for remote radios on driver's side of trunk as near to the vehicle body side as possible.
- B. One piece transceivers should be mounted under dash or on transmission hump where they will not interfere with vehicle controls or passenger movement.

2. Antenna Installation

- A. The antenna should be a permanent-mount type located in the center of the roof or center of the rear deck lid. Glass mounted antennas should be kept as high as possible in the center of the rear window or windshield. If a magnetic-mount antenna must be used, care should be taken to mount the antenna in the same location as a permanent mount type. If a disguise-mount antenna is used, great care should be taken to shield the tuning network from vehicle electronics and wiring, or to mount the tuning network in an area completely clear of vehicle electronics and wiring.
- B. Each vehicle model and body style reacts to radio frequency energy differently. When dealing with an unfamiliar vehicle, it is suggested that a magnetic-mount antenna be used to check the proposed antenna location for unwanted effects on the vehicle. Antenna location is a major factor in these effects.

3. Antenna Cable Routing

- A. Always use a high quality coax (at least 95% shield coverage) routed away from the Engine Control Module (ECM) and other electronics modules.
- B. Care should be taken to avoid routing feedline with any vehicle wiring.

4. Antenna Tuning

- A. It is important that the antenna be tuned properly and reflected power be kept to a minimum. (VSWR < 2:1)

5. Radio Wiring and Connection Locations

- A. Transceiver Power Leads:
These connections should be made directly to the battery itself, including the ground, or to the jump start block on vehicles so equipped. The transceiver power feeds should be #10 AWG wire or larger, twisted if possible. The ground wire should not be attached to the body at any point. Appropriate in-line fuses for both the positive and ground leads should be located as near the battery as possible.

NOTE:

It is recommended that a fuse be placed in the transceiver ground lead to prevent possible damage to the transceiver, in the event the battery to engine-block ground is inadvertently disconnected.

For ONE-PIECE TRANSCEIVERS where ignition switch control is desired, a 12 v power contactor must be installed in the transceiver positive lead. The contactor should be located at the vehicle battery with the coil of the contactor driven through an appropriate in-line fuse from an available accessory circuit or ignition circuit not powered during cranking. The coil of the contactor must return to battery negative.

B. Handset or Control Unit Battery and Ground:

Any ground lead from a handset or control unit must return to battery negative. It is preferable that the positive lead for a handset or control unit be connected directly to the battery. It is recommended that the handset or control unit positive and ground leads be appropriately fused separately from the transceiver positive and ground leads. If ignition switch control is desired, the handset or control unit positive lead may be connected through an appropriate in-line fuse to an available accessory circuit or ignition circuit not powered during cranking.

C. Connections for Multiple Transceivers and Receivers:

If multiple transceivers or receivers are to be installed in the vehicle, power leads to the trunk or under dash should be terminated in covered insulated buss bars. All transceivers or receivers may then have their power leads connected to the buss bars. This makes a neater installation and reduces the number of wires running to vehicle underhood.

6. Wire Routing

- A. The power leads should be brought through a grommet on the driver's side firewall. For trunk-mounted transceivers, the cables should continue on along the driver's side door sills, under the rear seat, and into the trunk through the rear bulkhead. If the battery is located on the passenger side, battery leads should cross the vehicle in front of the engine. All attempts should be made to maintain as much distance as possible between radio power leads and vehicle electronic modules and wiring.
- B. For police vehicles, radio power leads should be routed in the conduit provided with the option package.

7. Troubleshooting

- A. Should vehicle problems develop following installation, the source of the problem should be determined prior to further operation of the vehicle.
- B. Possible causes of vehicle problems include:
 - 1. Power feeds connected to points other than the battery.
 - 2. Antenna location.
 - 3. Transceiver wiring located too close to vehicle electronic modules or wiring.
 - 4. Poor shielding or poor connectors on antenna feedline.

8. Contact and Feedback

- A. GM vehicles have been designed and extensively tested for immunity to known sources of RF energy. However, it is impossible to test for every combination of RF sources and installations. If a persistent condition is encountered,

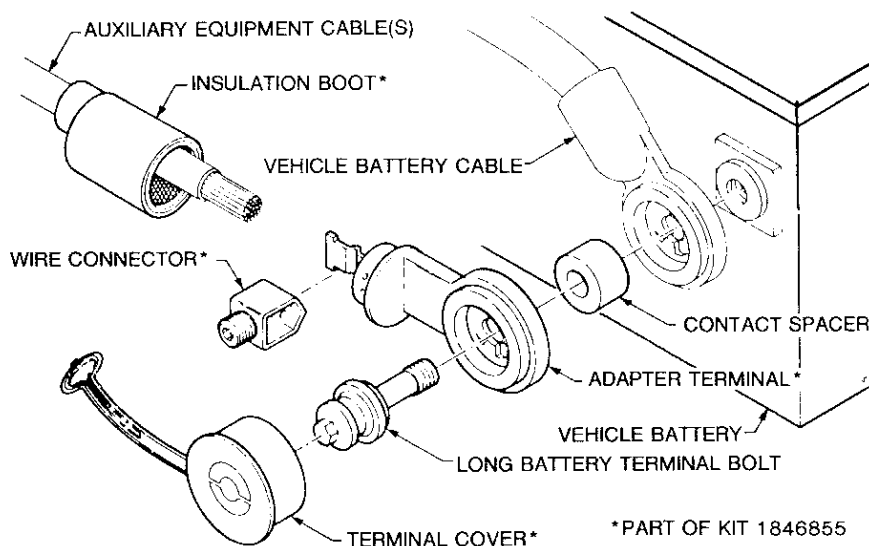
**WRITE TO:
EMC DEPT. - MR
BLDG 40**

**GENERAL MOTORS PROVING GROUND
MILFORD, MICHIGAN 48042-2001**

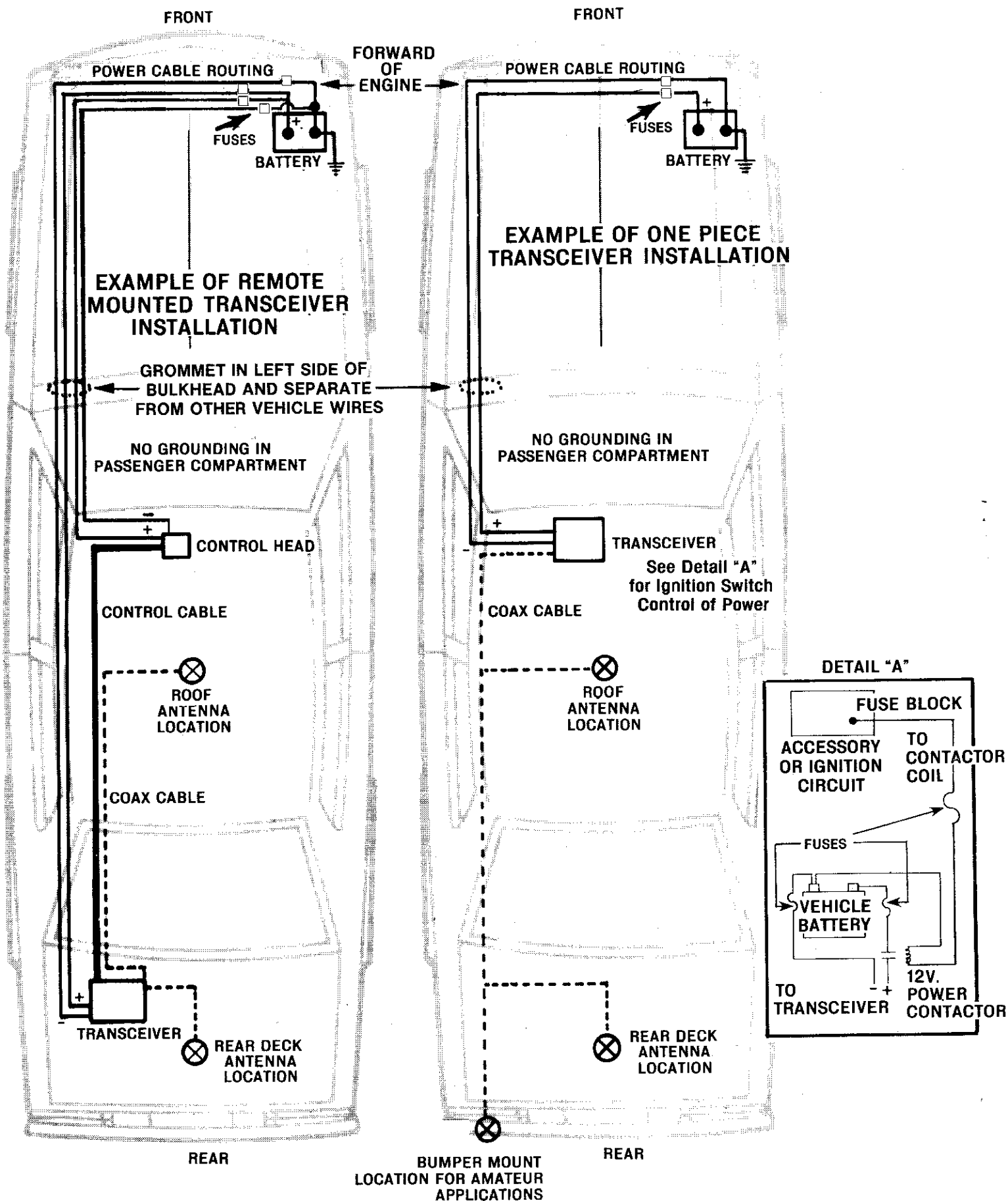
**Auxiliary Electrical
Equipment
GM Recommended
Installation**

AC-Delco Side Terminal Adaptor Package 1846855, when combined with the longer battery bolt and spacer will provide the simple, tight, corrosion resistant connection illustrated. Parts can also be purchased at car dealerships.

Item	AC-DELCO Catalog 7A10	CAR DEALER "Parts" Book
Kit	1846855	1846855
Bolt	7803	12004188
Spacer	7804	12004189



TRANSCEIVER INSTALLATIONS



The County Line Roadrunner is a monthly publication of the Mobile Amateur Radio Awards Club, Inc., (MARAC). MARAC's stated purpose is to promote mobile amateur radio efficiency and portable; recognize and award outstanding accomplishments in amateur radio with emphasis on mobile operation, both phone and cw and to promote good will and fraternalism among amateurs. MARAC also serves as the communication and social arm of the county hunters. Current MARAC dues and membership information can be obtained by sending a business size envelope with postage for 1 ounce to MARAC P O Box 64 Newport MN 55055 and request the Information Packet.

The Officers are:

PRES - Don Strom, WA0LKL; 11421 Johnson Cr, Bloomington MN 55437. VP - Bob Hanson, W0KMH; 9 Hillside Ct. Northfield MN. SEC - Sheldon Mann, N0DRX; 1618 West Pine St Stillwater MN 55082. TREAS - John Lyon, W9LHG; 2346 Dorothy Lane White Bear Lake MN 55110.

The Directors are:

HQ - Mary Mann, N0DXH; 1618 Pine St Stillwater MN. Vern Olson, WA0RJ; 4024 NW 3rd St. Rochester MN 55091. Jerry Koon, W0NNH; 8326 Grenadier Ave So Cottage Grove MN 55016. PACIFIC - Ken Wosika, KB7QO; 3413 Mary Ann Ave Las Vegas NV 89101. NORTHEAST - John Butler, WB2NFB; P O Box 941, Johnstown NY 12095. GREAT LAKES - John Sebastian, N8BGF; 758 Southwind Dr Fairfield OH 45014. NORTH CENTRAL - Carl Durnavich, KF9FU; 427 Calumet Blvd Harvey IL 60426. SOUTHEAST - Bill Bell, KM4W; RD # 8 Box 8690A Unit #11 Manchester TN 37355-2410. SOUTH CENTRAL - Buster Boatman, N0CKC; 8973 W. Harvard Dr Lakewood CO 80277.

Other members of the Board include:

IMMEDIATE PAST PRESIDENT - Jim Whitaker, WB0TVL; 3019 O'Henry Rd Minneapolis MN 55429; NEWSLETTER EDITOR - Bob Dyson, K0AYO; 8943 S Overhill Circle De Soto KS 66018. AWARDS CUSTODIAN - Bill Nash, W0OWY; P O Box 83403 Phoenix AZ 85071.

Other Information:

The annual dues are \$16 per year with Newsletter sent via First Class Mail in the U.S. Addresses within the U.S. can join with Newsletter mailing via Third Class Mail for \$13 per year. DX Newsletters (non North America) are sent via Air Mail for \$25 per year. Send all membership dues and address change notifications to the Secretary.

MOBILE QSL BUREAU; P O Box 6436 Florence, SC 29501. USA-CA CUSTODIAN; Dorothy Johnson, WB9RCY; 333 S. Lincoln Ave Mundelin IL 60060. The B & B Shop; P O Box 83403 Phoenix AZ 85071.

Articles and items to be included in the Newsletter must be in the Newsletter Editor's hands prior to the 20th of the month preceding publication. Time bounded material received after that date may not be included in the next issue at the discretion of the editor.

MARAC is Incorporated in the State of Kansas as a Not-For-Profit corporation. The Resident Agent is J. S. Skaptason, 3905 West 120th Terr., Leawood Ks 66209.

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