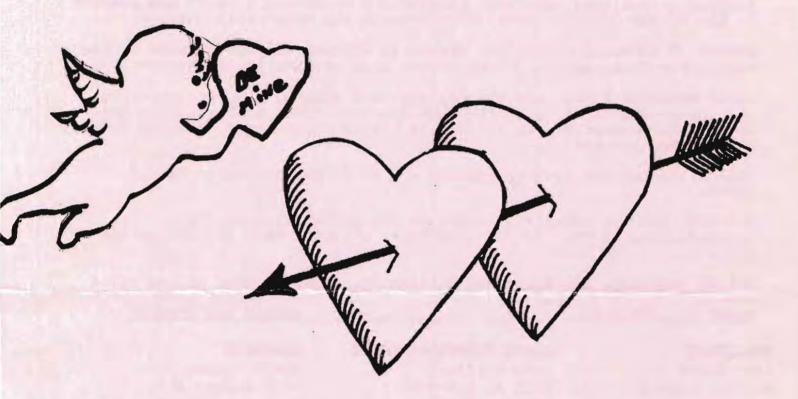
# CORVATRSATION

theson corvair association

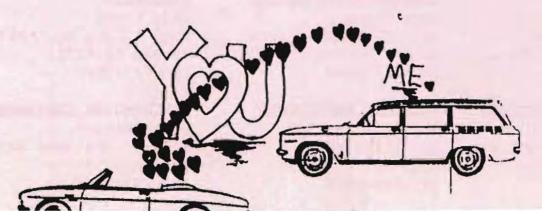
VOLUME 22 NUMBER 02

7405011, AR13011A FEBRUARY 1997



# VALENTINES ?

IS A SPECIAL DAY WITH HUGS
THAT LAST W' STAY W' STAY.
I HOPE THAT YOURS IS
SPECIAL TOO WITH LOTS OF
LOVE'S FROM ME TO YOU.



# TUCSON CORVAIR ASSOCIATION EST. 1975

Corvairsation is a monthly publication of the Tucson Corvair Association, which is dedicated to the preservation of the Corvair model of the Chevrolet Motor Division of General Motors. The Tucson Corvair Association is a chartered member of the Corvair Society of America (CORSA \ 857).

MONTHLY MEETINGS are held on the fourth Wednesday of each month except December. One technical/social event is planned for each month with the exception of July and August.

MEMBERSHIP DUES: Initial dues \$22.00 per year for Fa.and \$ 15.00 for singles, (includes name tag) renewable \$ 18.00 and \$ 15.00 and payable to the TUCSON CORVAIR ASSOCIATION through the Membership Chairperson.

CHANGE OF ADDRESS: Report any change of address or phone number to the Membership Chairperson. Do not report such changes to the Editor.

CORSA MEMBERSHIP DUES are \$28 per year and include a subscription to the CORSA Communique, a monthly publication. CORSA membership is not require for membership in TCA but is highly recommended. See any TCA officer for information.

CLASSIFIED ADS are free to members and \$2.50 per 4-line ad to all others.

DEADLINE for all materials submitted for publication in the <u>Corvairsation</u> is the 1st for that month's issue. Mail or deliver all materials to the Editor.

BUSINESS MAILING ADDRESS: 4072 E. 22nd St. #197, Tucson, Arzona 85711

#### BOARD OF DIRECTORS

#### PRESIDENT

Lynn Bloom 4072 E. 22nd St.S-197 Tucson AZ 85731 520-747-4842

## VICE-PRESIDENT

Larry Dandridge 1710 S. Jefferson \*10 Tucson AZ 85711 520-571-9680

#### TREASURER

Allen Elvick 4210 S.Preston Tucson AZ 85746 520-883-4337

#### RECORDING SECRETARY

Herb Berkman 210 S. Daybright Pl. Tucson AZ 85748 520-751-9500

#### BOARD MEMBER-AT-LARGE

Vern Griffith 1302 W. Ajo \*333 Tucson AZ 85713 520-889-7516

## MEMBERSHIP CHAIRPERSON

Ruth Griffith 1302 W. Ajo \*333 Tucson AZ 85713 520-889-7516

## CORVAIRSATION EDITOR

Lynn Bloom 4072 E. 22nd St.\*197 Tucson AZ 85711 520-747-4842

# PREVIOUS PRESIDENTS

Ron J. Bloom Esq. 520-747-4842 Vern Griffith Esq. 520-889-7516

# WHEELS AND SPOKES

# CHAPLAIN

Ron J. Bloom 4072 E 22nd #197 Tucson AZ 85711 520-747-4842

## ASSISTANT EDITOR

Ruth Griffith 1302 W. Ajo \*333 Tucson AZ 85713 520-889-7516

#### LIBRARAIN

Dave Baker 6110 E. 5th St. \*227 Tucson AZ 85711 520-747-0840

#### MERCHANDISE CHAIRMAN

Don Robinson 2044 W. Shalimar Way Tucson Az 85704 520-297-1356

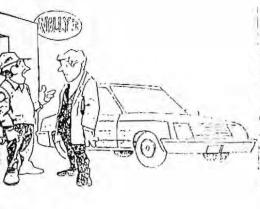
: 2-12-97 : 7:21 : VAMC TLCSON AZ→ 520 745 5454;# 1

#### FEBRUARY TREASURERS REPORT 97

BEGINNING C	CASH ON HAND	461.18
INCO	ME: (ACCOUNTS RECEIVABLE)	
	Ads00.00	
	Badges/Pins00,00	
	Raffle Tickets	
	Cans	
	Merchandise00.00	
	Parts	
	Subtotal	
	DUES:	
	Dave & Beverly Baker	
	Vern & Ruth Griffith	
	Subtotal Dues	
	AL INCOME: (ACCOUNTS RECEIVABLE)ACCOUNTS PAYABLE)	565,52
	Badges	
	Paris	
	Merchandise	
	그리다 하다 그들은 경기를 하는 이 생생님은 이 없는 것이 하는 것이 되었다면 하는 것이 되었다. 이 경기를 하는 것이 되었다. 그리고 있다는 그리는 것이 되었다. 그렇게 그렇게 그렇게 그렇게 되었다.	
	Copier Supplies	
	Stamps & receipt book	
	Paper supplies for party & outings	
	Total	
TOTAL EXP	ENSES: (ACCOUNTS PAYABLE)	797.29
ENDING DA	LANCE: (CASH ON HAND)	220 41
ENDING BA	그렇게 하나 하는 사람들이 하나 이 없는 사람들이 아니라 그렇게 하는 사람들이 살아 있다면 하는 것이다.	
	n Och as in a	1

# Mixed Fruit Cobbler

2x13-in Sheet Pan



"The only thing we can figure is that maybe it's supposed to rattle when it turns left."

Cinnamon Pastry: 1% cups flour Licuspeon sugar I teaspeon ground empanon Z teaspron salt L'eup duntenus: 5-6 tablesproms we water Liuit Lilling: Granuv Smith apples (approximately 1% lb.), pecied, cored and sheed 4 Bartlett peurs (approximately 1% lb.) peeled, cared and sheed I pout fresh blurbernes I punt fresh raspbernes 12 cups sugar Scup flour 2 tablespoons lemon juice 2 tablespoons butter

I cup chopped walnuts

2 tablespoons confectioners sugar

Picheat oven to 350° F. To prepare Pastry: Combine flour, sugar emission and salt in medium mixing bowl. Cut in shortening with pastry blender until mixture is crombly. Add ice water, I tablespoon at a time, and mix with a fork until mixture holds together in a ball. Roll pastry on lightly floured surface to 13 x 12-inch rectangle, about %-inch thick. Cut dough muo eleven 13-inch strips. Cover with clean cloth while making filling To prepare Fruit Filling: Combine apples, years, bluebernes and rasphernes in a large bowl. Combine sugar and flour and sur mio from Spread from mixture evenly into pan. Sprinkle with lemon juice and dot with butter. Criss-cross eight pastry strips over hom mixture (cut two to fit short corners). Using remaining three stups, make an edge around inside run of pan, lolding over ends of strips. Combine walnuts and confectioners sugar. Sprinkle over pastry. Bake 60-70 minutes or until pastry is crusty and filling is bubbly and thickened. Serve with whipped cream. if desired.

Makes 12 servings.

# Peach Gingerbread

9 in. Round Cake Pan
1% cups flour
1 teaspoon baking powder
% teaspoons ground ginger
1 teaspoons ground cinnamon
% teaspoon salt
% cup butter or margarine
% cup sugar
1 egg
% cup light molasses
% cup sour milh or buttermilh
1 can (16 oz.) sliced peaches in light
syrup, drained, cut into chunks

Preheat oven to 350° E. Spray pan with non-stick vegetable pan spray. Combine flour, baking powder, baking soda, garger, cinnamon and salt.

Set aside. In medium bowl, bear butter and sugar until creamy. Bear in egg and molasses. Add dry ingredients alternately with butternilk, mixing until well blended. Stir in peaches. Pour mixture into prepared pair. Bake 40-45 minutes or until cake springs back when lightly touched in center and edges begin to pull away from sides of pair. Cool 5 minutes in pair invert and cool, right-side up, on wire rack. Serve cake with Lemon Rosemary Sauce. To freeze, wrap tightly in foil and label. Reheat pair at 350°F for 20-25 minutes.

Makes 8 servings.

# Lemon Rosemary Sauce

% cup butter, melted
% cup sugar
% cup lemon juice
1 egg, beaten
1 tablespoon grated lemon peel
1 teaspoon finely chopped fresh
rosemary leaves OR 1 teaspoon
dried rosemary

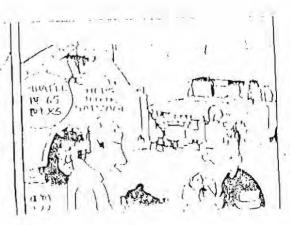
Combine all ingredients in small saucepan. Cook over medium heat, suring constantly, until mexture boils and thickens. Cool. Store in refrigerator until ready to serve.

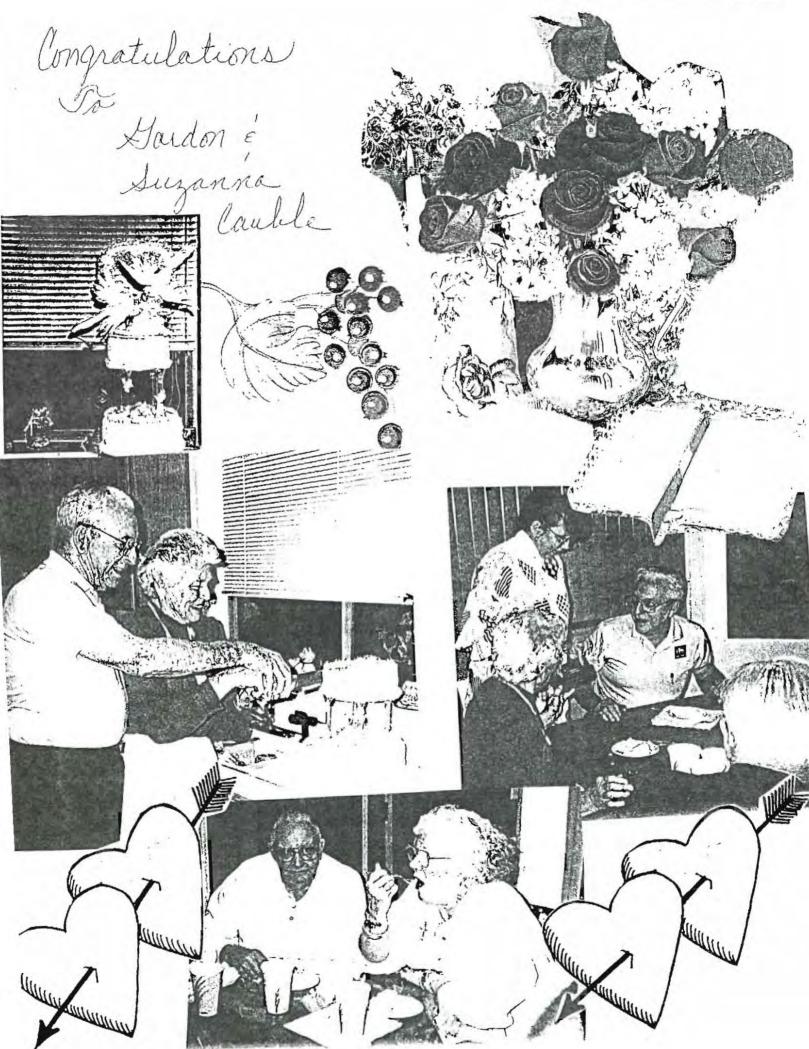
Makes 1 cup.

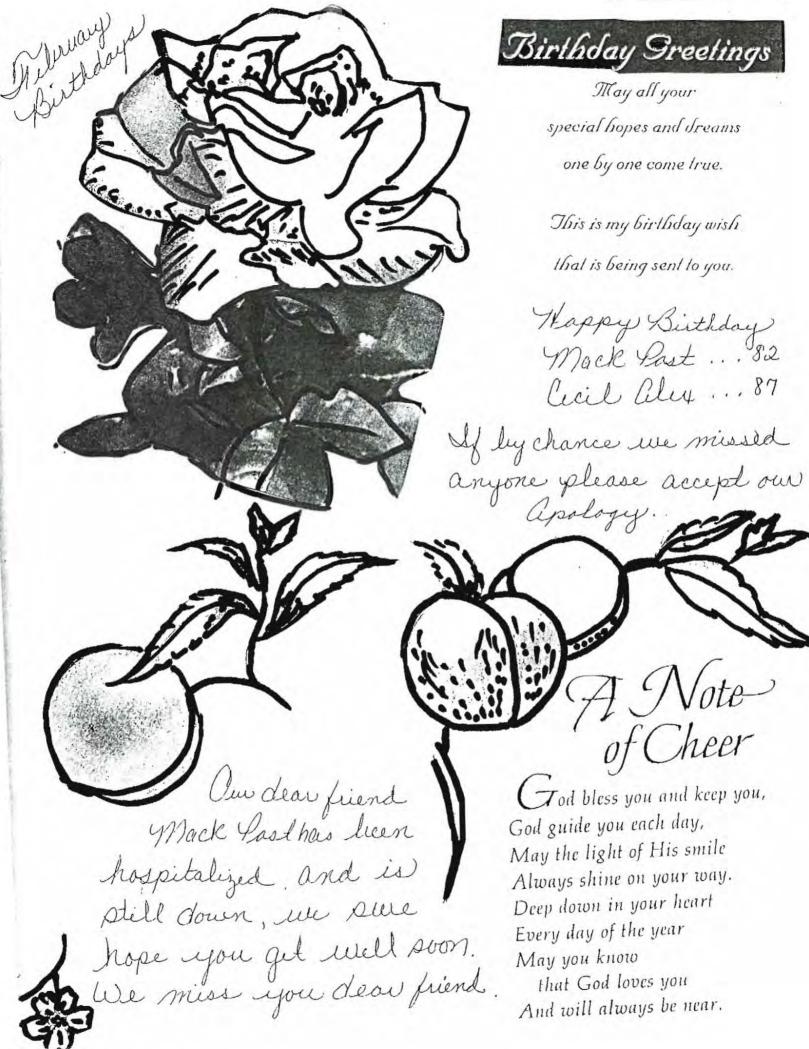
# UANN IN GREG EVANS















19TH ANNUAL

# ALL CHEVY DAY

MARCH 2, 1997

# LOS OLIVOS PARK 2802 EAST DEVONSHIRE

(one block north of Indian School Rd.) 9:00am - 3:00pm

Open to all Chevy or Chevy powered vehicles
Participants Choice Judging \* Plaques \* Dash Plaques

(Plaques - 1st place in each class. 2nd if more than 3 cars in class)

REFRESHMENTS AVAILABLE (proceeds to Los Olivos Senior Center)

For more information call: GREG 892-3065

SEND ENTRY FORM WITH PRE-REGISTRATION \$12.00 BEFORE FEB. 22 (PRE-REGISTRATION includes \$2.00 in Refreshment tickets) \$15.00 AT EVENT SITE.

T-SHIRT ORDER - Yes, I want to reserve a t-shirt w/ pre-registration \$10.00 ea. (12.00 for XX-Large) (\$12.00 and \$14.00 day of event)

Send to: Cactus Corvair Club, Inc. 857 E. Garnet Ave. Mesa, AZ 85204

# CACTUS CORVAIR CLUB, INC.

ALL CHEVY DAY - REGISTRATION

CACTUS	CORVAIR	USE	ONLY
CLASS	VEH	HICLE#	

PLEASE CIRCLE CLASS.

CLASS CODE #		
1 1051 011		
1 1954 - Older	15.	Corvette 1968 - 1982
2. 1955 incl. Nomad & Sedan Delivery	16.	Corvette 1984 & Newer
3. 1956 incl. Nomad & Sedan Delivery		
4. 1957 incl. Nomad & Sedan Delivery	18.	Corvair 1960 - 1964
5. 1958 - Newer	19.	Corvair 1965 - 1969
6. Chevelle 1964 - 1965	20	Corvair F.C. & Wagons
7. Chevelle 1966 - 1967		Truck/Van 1955 & Older 1st Series '55
8. Chevelle 1968 & Newer		Truck/Van 1955 - 1959 2nd Series '55
9. El Camino		Truck/Van 1960 - 1966
10. Chevy II/Nova 1962 - 1965	24.	Truck/Van 1967 - 1972
11. Chevy II/Nova 1966 & Newer	25.	Truck/Van 1973 - 1987
12. Camaro 1967 - 1969	26.	Truck/Van 1988 & Newer
13. Camaro 1970 & Newer	27.	Street Rod
14. Corvette 1953 - 1967	28.	Engineering/Open
Place Brief Leethin		
Please Print Legibly:		MODEL
NAME		
ADDRESS		
CITY STA		
ZIPPHOI	NE	LICENSE PLATE
CLUB AFFILIATIONS:		
	-	
WAIVER	alaati	as is this Castus Cospair Club event that I
I hereby agree, as a condition to my parti		그리 적하는 물에게 들어 내가 있는데, 그렇게 되었다. 맛있다면 하면 되었다면 하게 되었다면 하는데 그런데 하는데, 그리고 아이를 하는데 어떻게 되었다.
I hereby agree, as a condition to my parti am participating in this event for my own ple	asure	
I hereby agree, as a condition to my parti am participating in this event for my own ple- passengers at all times. I release the Cactus	Corve	and will be fully responsible for my car and air Club, their assignees, officers & agents,
I hereby agree, as a condition to my parti am participating in this event for my own ple- passengers at all times. I release the Cactus and their successors from all liability whatsoe	Corve ver b	and will be fully responsible for my car and air Club, their assignees, officers & agents, y any act, thing or event that may
I hereby agree, as a condition to my parti am participating in this event for my own ple- passengers at all times. I release the Cactus	Corve corver b of this	and will be fully responsible for my car and air Club, their assignees, officers & agents, y any act, thing or event that may sevent. I further agree that my car will be
I hereby agree, as a condition to my partial am participating in this event for my own pleapassengers at all times. I release the Cactus and their successors from all liability whatsoe transpire during or by reason of the holding of operated by a licensed driver and that driver Arizona Vehicle Code and that my automobile	Corve ver b of this will co- is fu	and will be fully responsible for my car and air Club, their assignees, officers & agents, y any act, thing or event that may sevent. I further agree that my car will be comply with all applicable provisions of the lly equipped in accordance with the Vehicle
I hereby agree, as a condition to my partial am participating in this event for my own pleasengers at all times. I release the Cactus and their successors from all liability whatsoe transpire during or by reason of the holding coperated by a licensed driver and that driver Arizona Vehicle Code and that my automobile Code of the licensing state. I certify that the	Corve ver b of this will co- is fu	and will be fully responsible for my car and air Club, their assignees, officers & agents, y any act, thing or event that may sevent. I further agree that my car will be comply with all applicable provisions of the lly equipped in accordance with the Vehicle
I hereby agree, as a condition to my partial am participating in this event for my own pleapassengers at all times. I release the Cactus and their successors from all liability whatsoe transpire during or by reason of the holding of operated by a licensed driver and that driver Arizona Vehicle Code and that my automobile	Corve ver b of this will co- is fu	and will be fully responsible for my car and air Club, their assignees, officers & agents, y any act, thing or event that may sevent. I further agree that my car will be comply with all applicable provisions of the lly equipped in accordance with the Vehicle
I hereby agree, as a condition to my partial am participating in this event for my own pleasengers at all times. I release the Cactus and their successors from all liability whatsoe transpire during or by reason of the holding coperated by a licensed driver and that driver Arizona Vehicle Code and that my automobile Code of the licensing state. I certify that the of my knowledge.  Signed:	Corver by this will coin is full consequent	and will be fully responsible for my car and air Club, their assignees, officers & agents, y any act, thing or event that may sevent. I further agree that my car will be amply with all applicable provisions of the ly equipped in accordance with the Vehicle wers given are true and correct to the best ared:
I hereby agree, as a condition to my partial am participating in this event for my own pleasengers at all times. I release the Cactus and their successors from all liability whatsoe transpire during or by reason of the holding coperated by a licensed driver and that driver Arizona Vehicle Code and that my automobile Code of the licensing state. I certify that the of my knowledge.	Corver by this will coin is full consequent	and will be fully responsible for my car and air Club, their assignees, officers & agents, y any act, thing or event that may sevent. I further agree that my car will be amply with all applicable provisions of the ly equipped in accordance with the Vehicle wers given are true and correct to the best
I hereby agree, as a condition to my participating in this event for my own pleasengers at all times. I release the Cactus and their successors from all liability whatsoe transpire during or by reason of the holding coperated by a licensed driver and that driver Arizona Vehicle Code and that my automobile Code of the licensing state. I certify that the of my knowledge.  Signed:  DRIVER: (this is a release)	Corver be of this will consider answer	and will be fully responsible for my car and air Club, their assignees, officers & agents, y any act, thing or event that may sevent. I further agree that my car will be omply with all applicable provisions of the lay equipped in accordance with the Vehicle wers given are true and correct to the best med:  OWNER: (this is a release if other than driver)
I hereby agree, as a condition to my participating in this event for my own please passengers at all times. I release the Cactus and their successors from all liability whatsoe transpire during or by reason of the holding coperated by a licensed driver and that driver Arizona Vehicle Code and that my automobile Code of the licensing state. I certify that the of my knowledge.  Signed:  DRIVER: (this is a release)	Corver be of this will consider answer	and will be fully responsible for my car and air Club, their assignees, officers & agents, y any act, thing or event that may sevent. I further agree that my car will be omply with all applicable provisions of the ly equipped in accordance with the Vehicle wers given are true and correct to the best med:  OWNER: (this is a release if other than driver)
I hereby agree, as a condition to my particle am participating in this event for my own pleasengers at all times. I release the Cactus and their successors from all liability whatsoe transpire during or by reason of the holding coperated by a licensed driver and that driver Arizona Vehicle Code and that my automobile Code of the licensing state. I certify that the of my knowledge.  Signed:  DRIVER: (this is a release)  Signed:  PASSENGER: (this is a release)	Corver be of this will consider answer	and will be fully responsible for my car and air Club, their assignees, officers & agents, y any act, thing or event that may sevent. I further agree that my car will be comply with all applicable provisions of the lay equipped in accordance with the Vehicle wers given are true and correct to the best wed:  OWNER: (this is a release if other than driver)
I hereby agree, as a condition to my particle am participating in this event for my own pleasengers at all times. I release the Cactus and their successors from all liability whatsoe transpire during or by reason of the holding coperated by a licensed driver and that driver Arizona Vehicle Code and that my automobile Code of the licensing state. I certify that the of my knowledge.  Signed:  DRIVER: (this is a release)  Signed:  PASSENGER: (this is a release)	Corver be of this will consider answer	and will be fully responsible for my car and air Club, their assignees, officers & agents, y any act, thing or event that may sevent. I further agree that my car will be comply with all applicable provisions of the lay equipped in accordance with the Vehicle wers given are true and correct to the best led:  OWNER: (this is a release if other than driver)
I hereby agree, as a condition to my particle am participating in this event for my own pleasengers at all times. I release the Cactus and their successors from all liability whatsoe transpire during or by reason of the holding coperated by a licensed driver and that driver Arizona Vehicle Code and that my automobile Code of the licensing state. I certify that the of my knowledge.  Signed:  DRIVER: (this is a release)  Signed:  PASSENGER: (this is a release)  Signed:  PARENT OR GUARDIAN OF MINOR (under 18 years)	corver be fithis will consist full construction of the constructio	and will be fully responsible for my car and air Club, their assignees, officers & agents, y any act, thing or event that may sevent. I further agree that my car will be comply with all applicable provisions of the lay equipped in accordance with the Vehicle wers given are true and correct to the best wed:  OWNER: (this is a release if other than driver)

T-shirts \$12.00 \_\_XX-Large

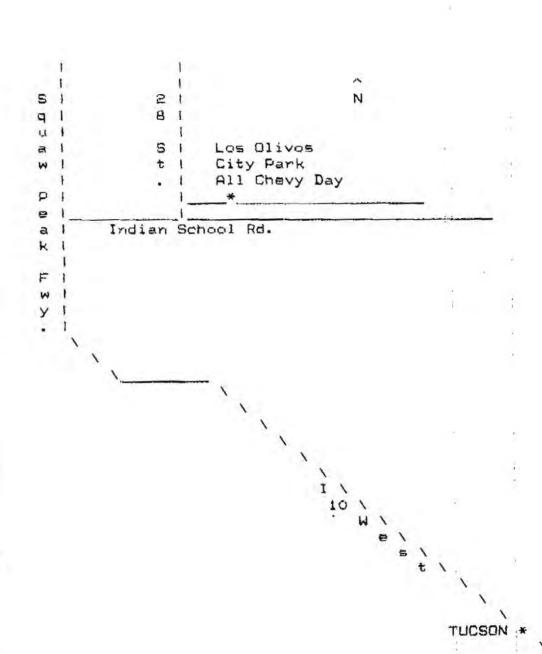
(T-shirts on event day \$12.00 or \$14.00.)

Total Amount Submitted \$

1 · X

# CACTUS CORVAIR CLUB'S ALL CHEVY DAY

# PHOENIX



# Plan To Attend

# 10th Annual Route 66 Fun Run Weekend April 25, 26, 27 1997

# Martin Milner Route 66 T.V. Celebrity A Tribute To The Beatles Downtown Kingman Car Show Extravaganza And Much, Much More

Travel Historic Route 66 with us between Seligman and Topock, Arizona. (The Longest Stretch left in the Country - 160 miles.)

ociation Members Pre-Registration Discount Pa	ckage Price Thru April 10, 1997	\$39.00	
mbers Registration Package Price After April 10	, 1997	\$44.00	
n-Members Pre-Registration Discount Package P	rice (Includes yearly membership) Thru April 10	0, 1997 \$54.00	
1-Members Registration Package Price(Includes			
Name (Last):	(First):		
Address:		EDUCATION SERVE TRANSPORTED	
City:	State: Zip:	SORRY	
Phone (Home):	(Work):	NO	
Year Vehicle: Mod	ol;	1 REFUNDS	
Car Club Name	<del></del>	B. Tanibal S.	
T-Shirt Size (one per entry) Circle Choice: Small Mo	dium Large X-Large (XX-Large XXX-Large Add)	\$3.00 to entry ice)	
Liability Release: I hereby certify that I agree to Relea Annual Fun Run Weekend, April 25, 26, 27, 1997, it any part of the event is held from loss, damage or in vehicle is properly insured to meet legal requirements	ekend before? (Circle) '88 '89 '90 '91 '92 '93 '94 se and Hold Harmless The Historic Route 66 Association of the above entrant. of liability.	on of Arizona, the 10th of all locations when I also certify that m	
Signature of Entrant:	Date:	_	
Send Registration To:	For Office Use Only		
Minterio Deute CC Association of Asirona	Date Paid Ck #	Anıt	
Historic Route 66 Association of Arizona	Fun Run Registration Number		
P.O. Box 66, Kingman, AZ 86402 For General Information Call: (520) 753-5001			
For General Information Can. (320) 133-3001	Date Confirmation Letter		

# Technical Topic



Submitted by Rex Brown as presented at our last regular meeting.

At the April meeting I had a Tech Tip about keeping your cars oil temperature cooler and was asked if I could share the tip. The Tech Tip was given to me by Lew Rishel from San Diego at the 1995 Mini-Convention in Portland. We were looking at my Twin Turbo 65 Monza and I was telling him about how the oil always runs hot. Lew asked if I had restricted the flow of oil thru the exhaust push rod drain tubes. He pointed out that the exhaust stacks in the cylinder heads were notched to allow clearance for the drain tubes. With this arrangement heat from the exhaust would be transferred into the oil running thru the drain tubes.

The restrictor that I came up with was 7/16" SAE flat washer. The outside diameter was just slightly larger than the inside diameter of the cylinder head end of the push rod tube. The diameter of the hole in the flat washer was slightly larger than the slot in the push rod guide plate. To correct the outside diameter of the washer, I slipped the washers on the end of a 3/8" drive extension and rotated them against a grinding wheel until they would just tap into the end of the drain tube. I then brazed the washer in place to make sure they wouldn't move.

I haven't yet had a chance to try this out but it looks like it should help. Always be sure to check for proper push rod clearance when assembling your engine. I was also told that there are a couple of different washer styles available so look until you have one that will work and always make sure the hole is at least the size of the slot of the guide plate.

# Rex.

From:

jmdavis5@unity.ncsu.edu

Subject:

Re: Lower Shrouds

To:

joewest@primenet.com (Joe West)

Date sent:

Wed, 27 Dec 1995 00:44:11 -0500 (EST)

Copies to:

corvair@thunderbolt.mitre.org

#### Joe West wrote:

> Is it beneficial to run a Corvair motor in the Hot Arizona summer, with the> lower shrouds removed, or will it cause more damage. One thing is for sure,> the cooling system is open loop with the lower shrouds removed, and I hate> it when things are open loop:)

This always seems to come back to the underlying question that is (unfortunately) not usually asked: How hot is normal, and how hot is too hot? Fortunately for us, GM was worried about this question, too, and so spent a lot of time and money finding the answers.

Testing of the 1960 model showed an absolute worst-case head temperature of 465 F at full throttle at 60 mph sustained (100 F ambient temperature). Oil temperature was 280 F under these conditions. This was with the most efficient fan and the most efficient folded-fin cooler and the early model thermostat system which controls cooling air flow with an inlet throttle, rather than exhaust damper doors.

The oil temperature cited was regarded as excessively high, and the designers hoped that this particular set of conditions would not normally occur. Under more normal operating conditions, oil temperature hovers in the 190-250 F range on this type of engine, which is squarely in the temperature range recommended by engine oil manufacturers.

The head temperatures were within design parameters. I will note that these are comparable to head temperatures I have observed in a wide variety of healthy air-cooled engines from snowmobiles to general aviation engines.

Design changes over the years increased specific output and (usually) reduced cooling capacity. Fans were changed twice, but the first design remains the most efficient air pump.

GM ran a series of tests in 1966 on the eve of introduction of the first 50 state smog pump equipped Corvairs. They found that the smog pump/air-conditioning combination was a guaranteed aluminum foundry, and that

3

operating temperatures with a smog pump on an normal engine were excitingly high. The immediate result of these tests was that air-conditioning was not available with a smog pump.

This information is in the CORSA Tech Guide, which is copyrighted, so I can't reproduce the article verbatim. I can quote the germane part, however:

Effect on operating temperature

Change	speed (mph)	Change oil temp(F)	Change head temp(F)
add 1960 fan	60	-9	-15
	80	-11	-13
	W.O.T.	-4	-5
12 plate cooler vice 8 plate	80	-16	N/A
Oil Cooler Side shields	80	-7	-10
Louvers in lower shrouds	60	-7	-14
	80	-9	-13
Remove lower shrouds	60	-14	-24
	80	-18	-28
	W.O.T	-18	-24

So what does all this mean?

- 1) A head temperature as high as 475 F is not unreasonably high. Racing snowmobiles, I didn't get worried until the heads got over about 500 F, and this is in an engine that suffers heat related failure problems long before a Corvair does, temperature wise, because of poor piston cooling.
- GM cited head temperatures under boost in turbo cars in excess of 500 F as normal. This makes me a little weak-kneed, but turbos can be extremely durable if properly maintained.
- 3) The most fragile engine head-temperature wise is the 140, so you should make more effort to keep 140 heads cooler. Having said that, I've observed that 140s with head temperatures around 450 on a hot day tend to be quite durable. All of this assumes a calibrated gauge. I have used thermocouples for the purpose.
- 4) There's no substitute for head temperature and oil temperature gauges. I have put these on my Greenbrier because it gets pushed harder than the 140 Corsa thermally (no kidding, I assure you!). I worry much more about my stock 140 Corsa running too cold in winter in NC than I do about it running too hot in summer. Yes, we have temperatures in excess of 100 F here as well.
- 5) On the Greenbrier I have never seen head temperatures in excess of 450F, nor oil temperatures in excess of 250 F. This includes doing some things intentionally just to see how hot it would get, and normal things like towing trailers at 70 mph in 95 F temperatures, etc. I have blued the crossover pipe, and very thoroughly baked the paint onto the lower shrouds, but the engine never showed any sign of distress. It now has 50,000 miles on it, and passes all the normal health tests with flying colors.
- 6) Put side-shields on the oil cooler, if you're not using a folded-fin, (which is superior anyway, and comes with them).
- 7) I'd worry about oil temperature long before head temperature unless you want to drive a turbo, smog, or air-conditioned car hard (mountain climbing, towing) in the >100 F regime. Then I'd worry about both. And the best way to worry is knowledgeably: Put on gauges of known accuracy before you decide you need to change GM's design.
- 8) Ergo, I use the lower shrouds on both cars, because slow warm-ups are much more harmful to any car than a 6% higher head temperature. The only time I omit them is when in the exhaust packing tightening stage after doing exhaust work.

# Simple Low-Cost Charger for Keeping Your Battery in Peak Shape\*

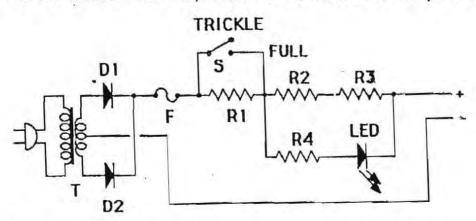
This simple 12-volt automotive battery booster/trickle charger provides a choice of charging rates to suit battery condition.

Set to FULL CHARGE, it will restore a partially discharged battery overnight; when set to TRICKLE CHARGE, it will maintain the battery at peak capacity for an extended time period. A built-in LED glows only when the charger is delivering current to the battery. The circuit is shown below.

Circuit. The output of transformer T is rectified by diodes D1 and D2. Pulsating DC is delivered to the battery via an output cord to the cigarette lighter receptacle in the vehicle. Switch S is used to choose between FULL CHARGE (about one ampere) and TRICKLE CHARGE (about 50-mA). The indicator LED is in series with its current limiter, R4. The fuse protects against short circuits.

Construction. The entire circuit can be mounted in a small metal box, using multilug terminal strips to support the components. Point-to-point wiring can be used. The AC line cord and the output cord should be passed out of the box via grommetted holes. A plug that fits the car's cigarette lighter receptable should be connected to the output cord. Make sure the polarity is correct.

Operation. Plug the AC line cord into a convenient outlet and plug the output cord into the cigarette lighter receptacle. Select either a FULL or TRICKLE charge via S, and verify that the LED glows in either position of S. If the LED does not glow, clean the contacts on the plug and the cigarette lighter receptacle (disconnect the battery ground first) and try again. If this fails, check for a wiring error. Should the battery be completely discharged (dome light does not light) use the TRICKLE CHARGE position of S for one to two hours. Less than 8 to 9 volts from the battery at the end of this time means that it must be replaced. If the voltage is about 12 volts, place S in the FULL CHARGE position. After a couple of day, switch S to the TRICKLE CHARGE position to maintain the battery at full charge.



D1 & D2: 3-A, 50-V diode F: 2-A fuse and holder

LED: red light emitting diode

R1: 22-Ω, 2-W resistor R2: 15-Ω, 2-W resistor

R3:  $1-\Omega$ , 10-W resistor R4:  $47-\Omega$ , 1/2-W resistor S: SPST switch

T: 25-V, 2-A CT transformer

Misc. suitable box, multi-lug terminal strips, line cord, output cord, suitable digarate lighter plug, mounting hardware

\*By Cass R. Lewart



Clark's

swair /

mei cerre ste

shelburne falls, mass 01370

Over 10,000 different parts in stock!

MAIN SHORE - 413-412-4111 | 1400-1410 

# 1995 - 1998 Catalogs are READY! major you get 3 Catalogs!

revisions MAIN CATALOG - over 400 pages, over 10,000 parts SPECIALTY CATALOG - over 170 pages (NOS, OTTO & USED PARTS)

1995 Supplement & Price List - June revision

To request by mail:(postpaid) USA, \$5.00

\$10.00

To order on a parts order: Order CAT-O \$3.00 3 Lbs.

CLARK'S Corvair Parts, Inc. Box CC Shelburne Falls, Ma. 01370 413-625-9776





Ron J. Bloom Contractor Bonded/Licensed/Insured Established in 1981

Phone 520-745-0887 Fox 520-745-5454 4072 E 22nd St., Suite 197 Tucson, AZ 85711-5334

COOLING

Warm Air Healing Caoling& Ventilaling C-39R Lic #091735

Service Maintenance Home Improvements C-62 Lic #09 1069

Commercial Cooling/Healing L-05 Lic #098355

From one Corvair lover to another...

CORVAIRS

CREATIVE STITCHES

2973 Oxbow Road Grand Junction, CO 81504 (303) 245-4722

Member of CORSA and Tucson Convair Res'n



## VERN'S

Home Repair 889-7516 1-520-429-0627

General Contractor Insured - Bonded - License #103332 CORVAIR UNDERGROUND?



Why pay too much for Corvair parts? Why put up with slow or otherwise unreliable mail orde service? Let our 21 years of Corvair-only mai order experience serve you! We may not yet be the biggest but we think you'll see value in ou emphasis on selection, service, reproductions and low prices :

A giant 300 page catalog is just \$5.00 postpai (\$8.00 COD) or you can ask for a free newsletter Find out why so many buy from

CORVAIR UNDERGROUND INC. PO BOX 339 DUNDEE, OR 97115 800-825-VAIR 503-434-1648 FAX 503-434-162

Painting, Remodeling

# VAIRS AND SPEARS

EST. 1975

FOR SALE: I wish to sell my 65 Monza Cpe. 140 eng. & 4 sp trans. Monza clock,, am/fm radio removed from a 67 Camaro, and rust free, straight body. This car runs good; the paint is very faded and may be the originnal paint. The color is red and where the primer shows throught it is gray primer consistant with the interior and I have put in those pieces I could find although they are the wrong color and torn. The price is \$ 2000.00 Please call or write; Mark Lides, 4691 Jeanean Lane, Yorba Linda, Ca. 92686 Ph: 714-996-6773

FOR SALE: 65 Monza Che. auto, runs, body work done before it was parked 15 years ago. Good glass except for pass. door window. \$ 500.00. CALL Michelle Lilly, 520-722-2754

FOR SALE: 1965 Corsa open, 110/4 new paint, new black top, new tires & chrome wheels. Az. car been in one family from 1965. Asking \$ 4000.00 WORTH MORE! For more Info: Call 520-299-1122, ask for Gordon Cauble.

FOR SALE: NEW and GOOD USED PARTS: FOR THE DO-IT-YOURSELFERS: .
Large inventory of new parts plus small selection of used parts , Call AI Crisipin 520-722-9445

FOR SALE: CORVAIR PARTS. Large outdoor yard full of great Corvair parts. Call Barry Cunningham for Information at (520)747-9028.

CORVAIR PARTS: Large selection of early and late. Resonable prices. Larry Dandridge, (520) 571-9680.



NOTE--- Ads in Vairs and Spears are free to TCA members. Non-members can place a four line ad for \$2.50. Send ads directly to Corvairsation editor\*\*\*\*\*

T T T TUCSON CORVAIR ASSOCIATION REGULAR MONTHLY MEETINGS T T FOURTH WEDNESDAY of each month (except December) T T FURRS CAFETERIA -- 5910 E. Broadway, Tucson, Az. T T T T 6:00 pm: Parking Lot Bull Session T 6:30 pm: Dinner (optional) 7:30 pm: Meeting starts COMING EVENTS C PLEASE CONTACT A BOARD MEMBER WITH C C C ANY SUGGESTIONS C C C C C C C C C C C C Regular Monthly Meeting: Jan. 22, 1997 C C TCA Executive Board Meeting: Jan.30, 1997 7:30 P.M. C Golden Corral 4380 E. 22nd ST. C C A Tucson Corvair Association A 4072 E. 22nd St. Suite 197 A Tucson, Arizona 85711 A Fax [520-745-5454] A A A A A FIRST CLASS MAIL A A A A A Van & Vicki Pershing A 4842 W. Paseo De Los Colinas A A Tucson, Az 85745 A Jan. 97 A A A