

CARVER CORPORATION
SERVICE BULLETIN

Service Bulletin # M-2020-3

Model M-2020

Serial # All

Reason: To eliminate alternator induced noise in the M-2020.

Procedure: Install Noise Filter Choke (P/N 601-00664-00) in series with the ground wire. See installation instructions.

Delete:

Add: Qty-1 601-00664-00
Noise Filter Choke Assembly

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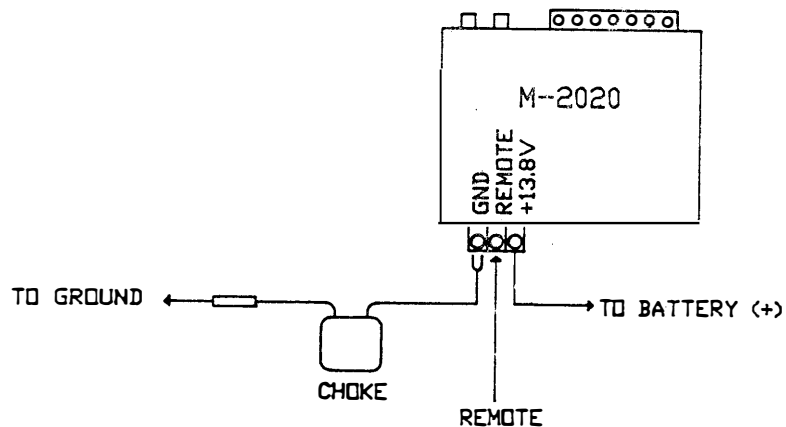
6/05/90

DATE

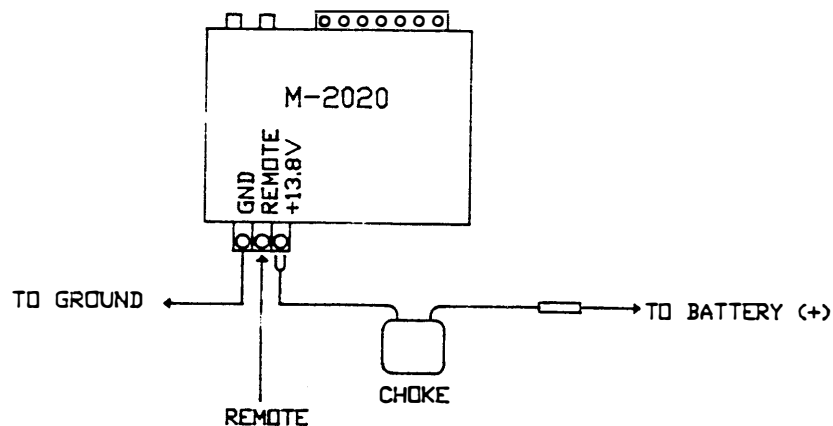
NOTES ON NOISE FILTER CHOKE INSTALLATION

THE OUTBOARD FILTER CHOKE IS PROVIDED TO ELIMINATE ALTERNATOR-INDUCED NOISE IN THE M-2020 AMPLIFIER. IT SHOULD NORMALLY BE INSTALLED IN SERIES WITH THE GROUND POWER CONNECTION, BUT SOME INSTALLATIONS MAY BE MORE EFFECTIVE IN SERIES WITH THE POWER (+) LEAD DEPENDING ON AGE AND MODEL OF CAR, TYPE OF INSTALLATION, WIRING SCHEME USED, ETC. THE CHOKE IS BI-DIRECTIONAL, I.E. IT DOESN'T HAVE A PREFERRED POSITIVE OR NEGATIVE LEAD. IT DOES NOT HAVE TO BE MOUNTED CLOSE TO THE AMPLIFIER. HOWEVER, THE ATTACHED SPADE LUG MAKES A CONVENIENT CONNECTION TO THE AMPLIFIER POWER TERMINAL BLOCK.

NORMAL CHOKE CONNECTION



ALTERNATE CHOKE CONNECTION



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Service Bulletin # M-2020-1

Model M-2020

Serial #

Reason: To improve the reliability.

Procedure: At location D1 replace the 1N4148 with a 1N4004 diode.

Delete: Qty-1 320-20001-00 1N4148

Add: Qty-1 320-20004-00 1N4004 400v

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ENGINEERING APPROVAL

Wayne Smith 10/5/89
10-5-89

DATE

CARVER CORPORATION SERVICE BULLETIN

Service Bulletin # M-2020-2

Model M-2020

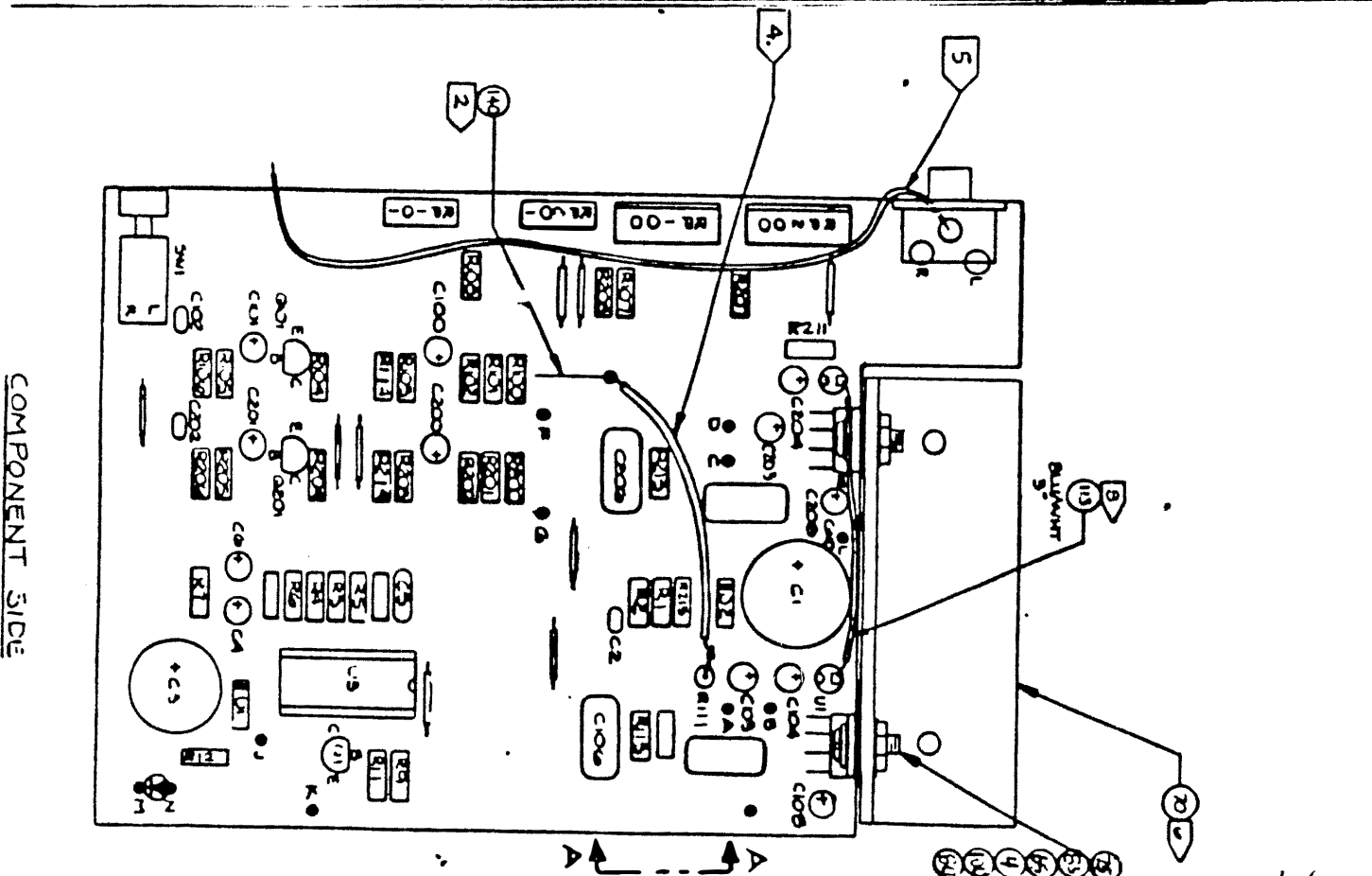
Serial # ALL UNITS

Reason: Turn off "pop" on the output.
THIS MUST BE DONE ON ALL UNITS.

Procedure: Remove jumper wire (Remove the jumper wire at location R215)
Add a 47 ohm resistor 1/4 watt where the jumper wire was removed.
Cut trace on the foil side of the board. (see page 2)
Add a three inch jumper wire to the component side of the board that goes from pin 2 of U1 to pin 2 of U2. (see below at note 113)
Remove C105 and C205 22uf 16v caps.
Add a 47uf 16v cap to the foil side of the board with the "-" side of the cap to ground and the "+" side to the other end of the 47 ohm resistor. Add sleeving to the leads of the cap. (see page 2)

Delete: Qty-1 401-30002-00 jumper
Qty-2 205-00013-00 22uf 16v

Add: Qty-1 251-00038-00 47 ohm 1/4watt
Qty-1 205-00013-00 47uf 16v
Qty-1 401-10583-00 3" 22 gauge
Qty-2 402-00012-00 .3" sleeving



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W. J. ... 5/5/64

DATE

CARVER CORPORATION
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Service Bulletin # M-2120-2

Model M-2120

Serial # BELOW 956

Reason: If the rectifier diodes fail, replace them with the substitute diodes.

Procedure: At location D11-D15 and D20 change the MR 852 diodes to the MR 822 5A FR diodes.

Delete: Qty-6 320-20007-03 MR852
(D11-D15, D20)

Add: Qty-6 320-20015-00 MR822 5A FR
(D11-D15, D20)

SERVICE APPROVAL

ENGINEERING APPROVAL

Walter D. [Signature] 8/28/89
W. Ferguson 8-28-89

DATE