



NOTIFICATION OF DELAYED WARRANTY START DATE OR IN-TRANSIT MILEAGE ACCUMULATION

This form is to be used to notify Ford Motor Company of a delayed warranty start date or to report an in-transit mileage accumulation on a vehicle driven (not transported) from the assembly plant to the receiving location.

1. VEHICLE IDENTIFICATION NUMBER

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2. NAME AND ADDRESS

THE HORTON COMPANY  
500 INDUSTRIAL MILE ROAD  
COLUMBUS, OHIO 43228

DEALER OR EQUIPMENT FIRM NAME

ADDRESS

CITY STATE AND ZIP CODE

3. TAIL BUYER

1	4	2	3	5	7 NO TITLE	8 NOT U.S. OR CANADA	9 COMMERCIAL
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>		

FIRST INITIAL	SECOND INITIAL	LAST NAME ONLY												
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

STREET ADDRESS

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CITY OR TOWN

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STATE

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ZIP CODE

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4. DATE OF RETAIL SALE AND MILEAGE

DATE OF RETAIL SALE

MONTH	DAY	YEAR

MILEAGE AT TIME OF RETAIL SALE

(NO TENTHS)				

SEND THIS NOTIFICATION TO

FORD MOTOR COMPANY  
FORD PARTS & SERVICE DIV.  
3000 SCHAEFER RD.  
ROOM 1158  
DEARBORN, MI 48121  
Attn: GLENN MIDDLEIN

TAIL BUYER'S SIGNATURE (END USER)

TAIL SELLER'S SIGNATURE (DEALER)

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## MANUFACTURERS

The following is a list of equipment manufacturers commonly used by The Horton Company. Any of these may be contacted directly for service, warranty or technical information.

ARA Manufacturing Company  
606 Fountain Parkway  
Grand Prairie, Texas 75050  
214/647-4111

Air Conditioners

Ferno-Washington, Inc.  
70 Weil Way  
Wilmington, Ohio 45177  
513/382-1451

Cots, Stretchers, Mounts

Federal Signal Corp.  
136th & Western Ave.  
Blue Island, Illinois 60406  
312-468-4500

Sirens & Signal Lights

Whelen Engineering Company  
Deep River, Connecticut 06417  
203/526-9504

Sirens & Signal Lights

Public Safety Equipment - Code 3  
10845 Baur Blvd.  
St. Louis, Missouri 63132  
314/432-6200  
TWX 910-765-0905

Sirens & Signal Lights

Leece Neville  
1374 East 51st Street  
Cleveland, Ohio 44103  
216/431-0740

Alternators & Regulators

Vanner, Inc.  
745 Harrison Drive  
Columbus, Ohio 43204  
614/272-6263

Inverters, Boosters,  
Battery Chargers, Flashers

Koehler Manufacturing Company  
Box R  
Marlborough, Mass. 01752  
617/485-1000

Battery Chargers

Unitrol Sirens  
Dunbar Nunn Corp.  
1108 Raymond Way  
Anaheim, Calif. 92801  
714/871-3336  
800/854-3375

Sirens, Flashers



## SPECIFICATIONS

### Air-Conditioning - Heating

ARA Heat/Air Combo added to stock chassis system.

Total freon....4.5 lbs.

18000 BTU - Cool

22500 BTU - Heat

### Alternator System

Leece Neville 7706-A 165 amp w/5078R external regulator.

Belts (Dayco)

### 83 Ford 450 cid

Ford 460 cid — 15390

Alternator - 15375

GM 454 cid — 15530

Air Pump - 15345

GM 350 cid — 15500

Regulator setting 14.2 volts with no load at high idle

### Chassis GVWR

	<u>Total</u>	<u>Front</u>	<u>Rear</u>	<u>Average Completed Total</u>
Ford 500 MR	11,000	4150	7400	8400
Ford 400 D & 401	10,250	4150	7400	7800
Ford 400 Single	9650	4200	6340	7400
Ford 300	9000	4200	6390	7000
Chevrolet 400-450	10,500	4000	7500	8200
GMC 500	10,500	3900	7200	8000

### Tire Pressure Range

Min. 45 psi - max 75 psi

FUEL CAPS ON HORTON AMBULANCES USING THE FORD 7.5L GASOLINE  
ENGINE

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If your ambulance is a Type I with a Ford F350 chassis or a Type III with a Ford E350 chassis, the fuel cap/caps supplied are "equivalent" to the Ford production release E5TZ-9030-A caps. The Ford E5TZ-9030-A cap is specially designed for high-flow vapor venting on the 7.5L engine. The Horton certified cap has flow which equals or exceeds the flow specified at 72" water by Ford for the E5TZ-9030-A cap.

If your ambulance is a Type II, the fuel caps supplied are the Ford E5TZ-9030-A caps.

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Horton Part Numbers

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Ambulances with chassis manufactured  
after 1/1/85

HORB111111

Ambulances built after 9/1/86

HORB111112

The Horton certified caps have a label on the underside with the following wording: THE HORTON COMPANY NO. -----  
EQUIVALENT TO FORD NO. E5TZ-9030-A.

## PREVENTIVE MAINTENANCE

In order to aid you in establishing a good preventive maintenance program, The Horton Company recommends the following service intervals:

### On a daily to weekly basis check:

- Engine Oil Level
- Engine Coolant Level
- Alternator & A/C Drive Belts
- Tires, Wheels, and Air Pressure
- Battery Water Level
- Operation of all systems, lights, etc.

### Every 3000 miles or 3 months:

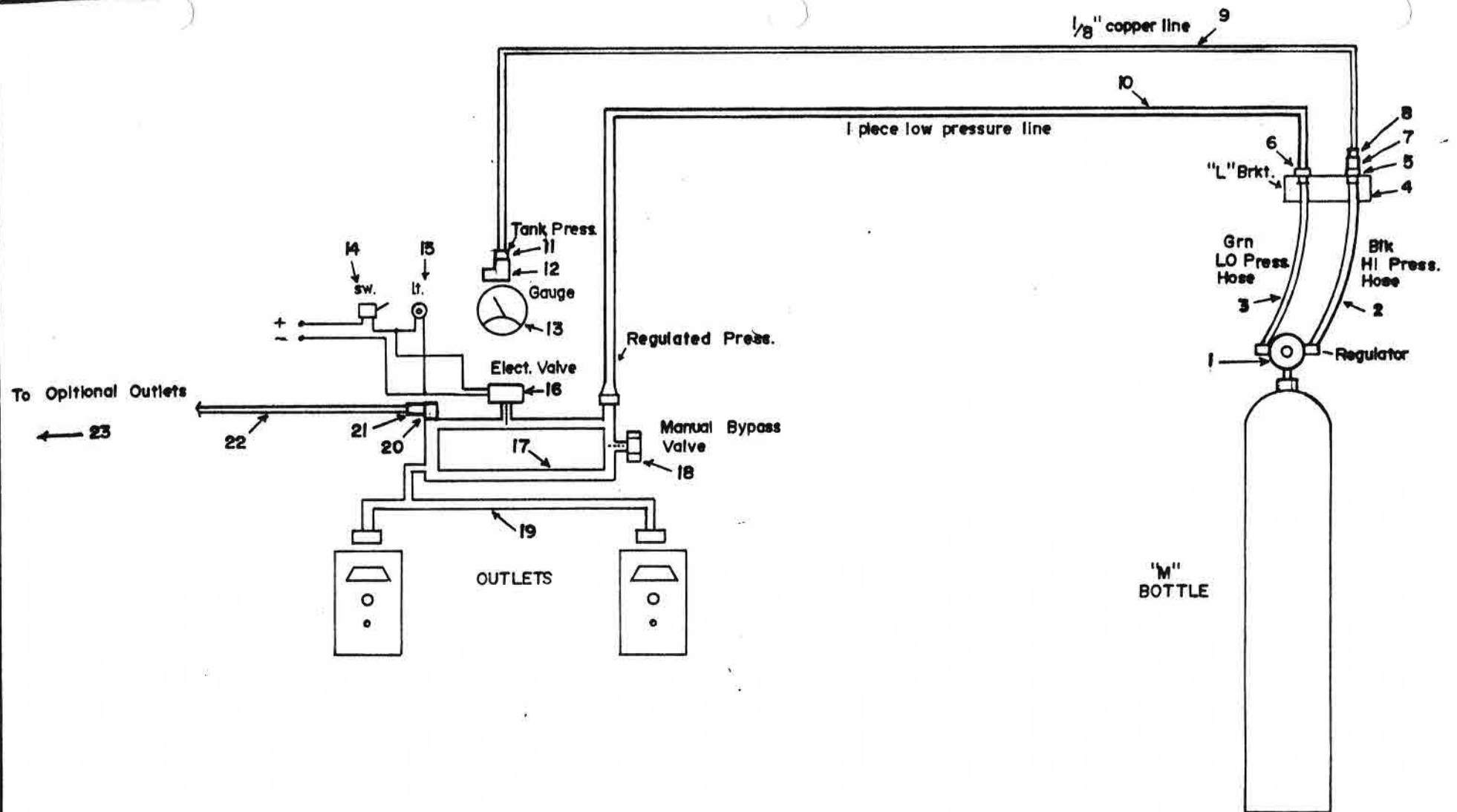
- Change Engine Oil
- Check Transmission Fluid Level
- Check Power Steering Fluid Level
- Inspect Ignition System
- Check for Fluid Leakage
- Lube Chassis
- Check Front Wheel Bearings
- Check Master Cylinder Fluid Level
- Inspect Brakes
- Check Idle Speed


### Every 6000 miles or 6 months:

- Change Engine Oil Filter
- Check and Regap Spark Plugs
- Inspect all Heater and A/C Hoses
- Lubricate Door Locks, Door Hinges, Cab Seal, Door Seals, etc.

### Every 24000 miles or 24 months:

- Change Automatic Transmission Fluid
- Change Engine Coolant
- Replace other filters - air, PVC, gas, etc.



					TOLERANCES (EXCEPT AS NOTED)		WORKING DIAGRAM OF OXYGEN SYSTEM	
					DECIMAL		<div style="text-align: center;">    <b>THE HORTON CO.</b> </div>	
					±			
					FRACTIONAL			
					±			
					ANGULAR		DRAWN BY R.N.	
					±		SCALE NONE	
							DATE 6-82	
							MATERIAL	
							DRAWING NO.	
							08	
Let. By Date Chg. Description:							APP'D	

PARTS LIST - OXYGEN SYSTEM

1. Victor Regulator w/fittings	02-REG-V
2. 21" Black High Pressure Hose	02-B-21
2a. 30" Black High Pressure Hose	02-B-30
3. 21" Green Low Pressure Hose	02-G-21
3a. 30" Green Low Pressure Hose	02-G-30
4. Bulkhead "L" Bracket	02-BKT-1
5. Bulkhead Low Side Fitting - Straight	02-LF-180
5a. Bulkhead Low Side Fitting - 90°	02-LF-90
6. Bulkhead High Side Fitting - Straight	02-HF-180
6a. Bulkhead High Side Fitting - 90°	02-HF-90
7. Gyrolok Adaptor Fitting	02-CF-2
8. Gyrolok Compression Fitting	02-CF-1
9. Low Pressure Line 16'	02-L-16
9a. Low Pressure Line 8'	02-L-8
10. 1/8 Copper High Pressure Line	02-COP-18
11. Gyrolok Compression Fitting	02-CF-1
12. Gauge Elbow Fitting	02-CF-3
13. 4000 lb. Gauge	02-GA-1
14. Toggle SW	02-SW-82
15. Green Pilot Lt.	02-PL-20
16. Electric Solenoid Valve	02-EV-1
17. Manifold Assembly	02-Man-1
18. Manual By-Pass Valve	02-MV-1
19. Dual Cabinet Outlet NCG	02-NC-C2
20. Flair Adaptor Fitting	02-CF-4
21. Flair Nut Fitting	02-CF-5
22. 1/4" Copper Feed Line	02-Cop-14
23. Single Squad Bench Outlet NCG	02-NC-B1

### OXYGEN SYSTEM LEAK CHECK

Items needed: a jar of dishwashing liquid and water and a small paint brush (approx. 1 inch.).

1. Remove all flowmeters, demand valves etc. from outlets.
2. Open shut-off valve on tank.
3. Charge entire system by turning on electric valve .
4. Close shut-off valve on tank. Note or mark pressure reading on gauge.
5. Starting at the cylinder, soap all visible fittings including cylinder valve and regulator body.
6. Next, go behind the inhalation panel and soap all visible fittings and soldered joints.
7. Wait a couple of minutes, then go back and check all soaped fittings.
8. Once you find the leak, tighten, reseal or replace part as needed.
9. If the leak cannot be found, wait a half hour, then check the reading on the gauge.
10. If the gauge pressure has dropped, repeat all steps. Check the cylinder compartment to see if the top of the bracket that hoses run to is visible, if not, lower bracket to gain access to soap the fittings on the top side.
11. If the pressure has not dropped, then the leak could be in the outlet itself.
12. Open shut-off valve to make sure outlets are charged.
13. Start by taking any squad bench outlets or ceiling outlets down and soap the entire outlet.
14. Next, remove faceplates from all outlets and soap all visible fittings.
15. Leaks in outlets are usually caused by dirt on the O-ring or seal or a worn out O-ring or seal. Before replacing a seal or O-ring try cleaning it first.
16. There are no splices or fittings hidden on the body, if the leak is not found repeat all steps above, making sure no splices were overlooked.



Air Conditioner/Heater  
Model A0763-12-AH  
Part Replacement and Service Instructions

The following instructions are to be used as a guideline when servicing the major components of this model. These components are a blower switch, thermostat, heater control cable, coil assembly, expansion valve and blower assembly.

### CONTROLS

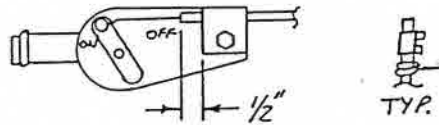
When servicing the blower switch, thermostat or heater control cable, it may be necessary to remove all (3) knobs and (3) nuts from control panel. Depending on the method of installation, the controls may be accessed individually for service.

#### Blower Switch

1. Disconnect terminals from back of switch.
2. When installing new switch, wire according to electrical schematic provided.

#### Heater Control Cable

1. Remove clips securing cable to water valve.
2. Install new cable (see diagram below) and insure that curled part of cable is facing clip.



#### Thermostat

WARNING: Sharp bends in the capillary tube may cause the thermostat to not function properly.

DO NOT FORCE CAPILLARY TUBE INTO COIL

1. Disconnect terminals.
2. Remove cover.
3. Remove thermostat. (Note where and how many bends are in the capillary tube).
4. When installing new thermostat, carefully insert capillary tube in the same location as the one removed.

Air Conditioner/Heater  
Model A0763-12-AH  
Part Replacement and Service Instructions

COIL ASSEMBLY

WARNING: Safety glasses should be worn when charging or discharging air conditioner systems.

CAUTION: Care should be taken when removing capillary tube from coil to prevent damage to fins.

1. Discharge system of refrigerant.
2. Disconnect heater and refrigeration hoses (cap ends to prevent contamination).
3. Remove cover.
4. Remove coil assembly by lifting up and out of housing.
5. When reconnecting refrigeration hoses, we recommend a quality refrigeration sealant be used on fittings.

EXPANSION VALVE

CAUTION: Before removing, note how both tubes of the expansion valve are routed.

1. Follow instructions for Coil Assembly removal.
2. Remove tar tape and clamp securing expansion valve bulb.
3. Disconnect expansion valve.
4. When replacing expansion valve, use a quality refrigeration sealant.

BLOWER ASSEMBLY

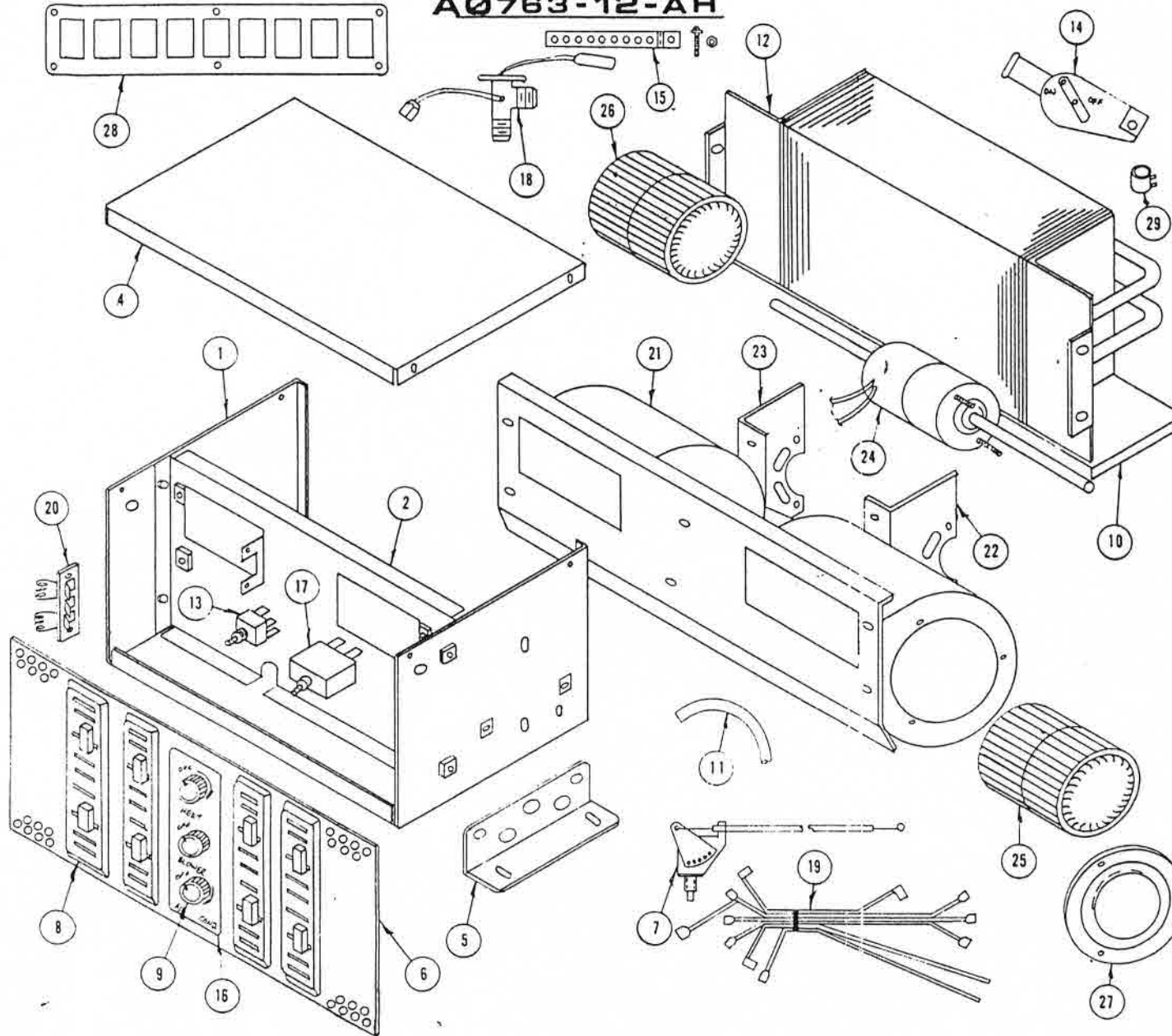
CAUTION: When installing new motor, leads must be on the left hand side of blower assembly (looking from the outlets of the housing).

Wheel hubs should face toward motor and be secured on the flat of the motor shaft.

1. Remove cover.
2. Disconnect orange motor lead wire from resistor harness.
3. Remove fasteners and tar tape and slide plastic bushing in blower divider forward.
4. Lift blower divider assembly up and out of housing.
5. Before replacing the blower divider assembly in the unit, blower should be tested to insure proper rotation (towards outlets) and operation. Blower should operate without vibration.



# AQ763-12-AH



## SGM Company Inc.

6989 LINDSAY DRIVE  
MENTOR, OHIO 44060-4996

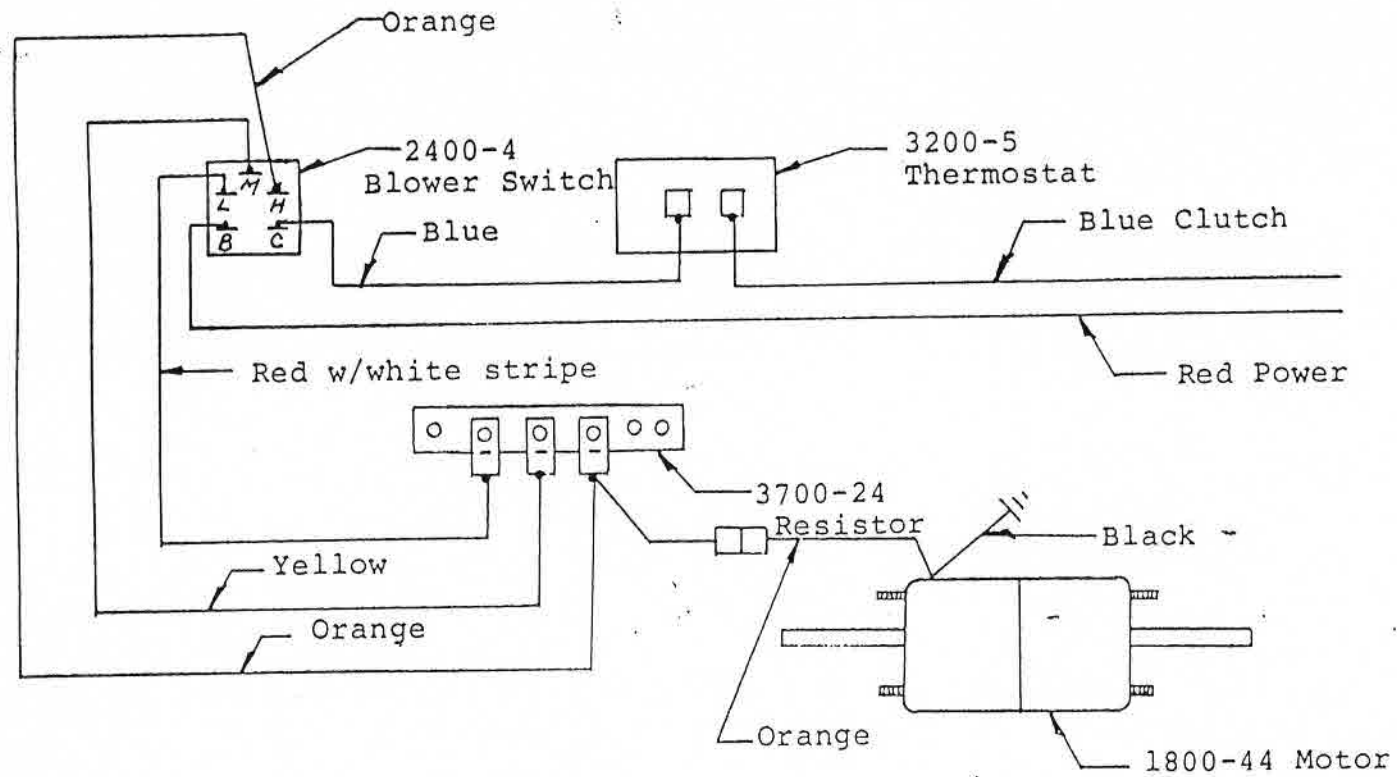
Item	Part No.	Part Name	Qty.
1	D-5076	Haz. Wrapper	1
2	B-5036	Blower Divider	1
3	C-5311-1	Drain Pan	1
4	C-5077	Cover	1
5	B-5449	Mounting Bracket	2
6	D-5463	Grill Panel	1
7	700RB-31	Cable	1
8	1300-12	Grill-Chrome	4
9	1500-8	Knob	3
10	2000-38	Pad	1
11	2200-5	Drain Hose	96"
12	2300-38	Coil-Evap & Htr.	1
13	2400-4	Switch	1
14	2600-15	Valve Heater	1
15	2900-11	Clamp Exp. Vlv. Bulb	1
16	900-83	Decal Controls	1
17	1200-5	Thermostat	1
18	3600-1	Expansion Valve	1
19	B-5451	Wire Harness	1
20	3700-24	Resistor	1
21	C-2294-1	Housing Blower	1
22	B-3842-1	Motor Bracket R.H.	1
23	B-3842-2	Motor Bracket L.H.	1
24	1800-44	Motor 12V	1
25	2700-9	Blower Wheel CW	1
26	2700-10	Blower Wheel CCW	1
27	A-4271	Inlet Ring	2
28	1300-16	Intake Grill	1
29	500-23	Clip Water Valve	1

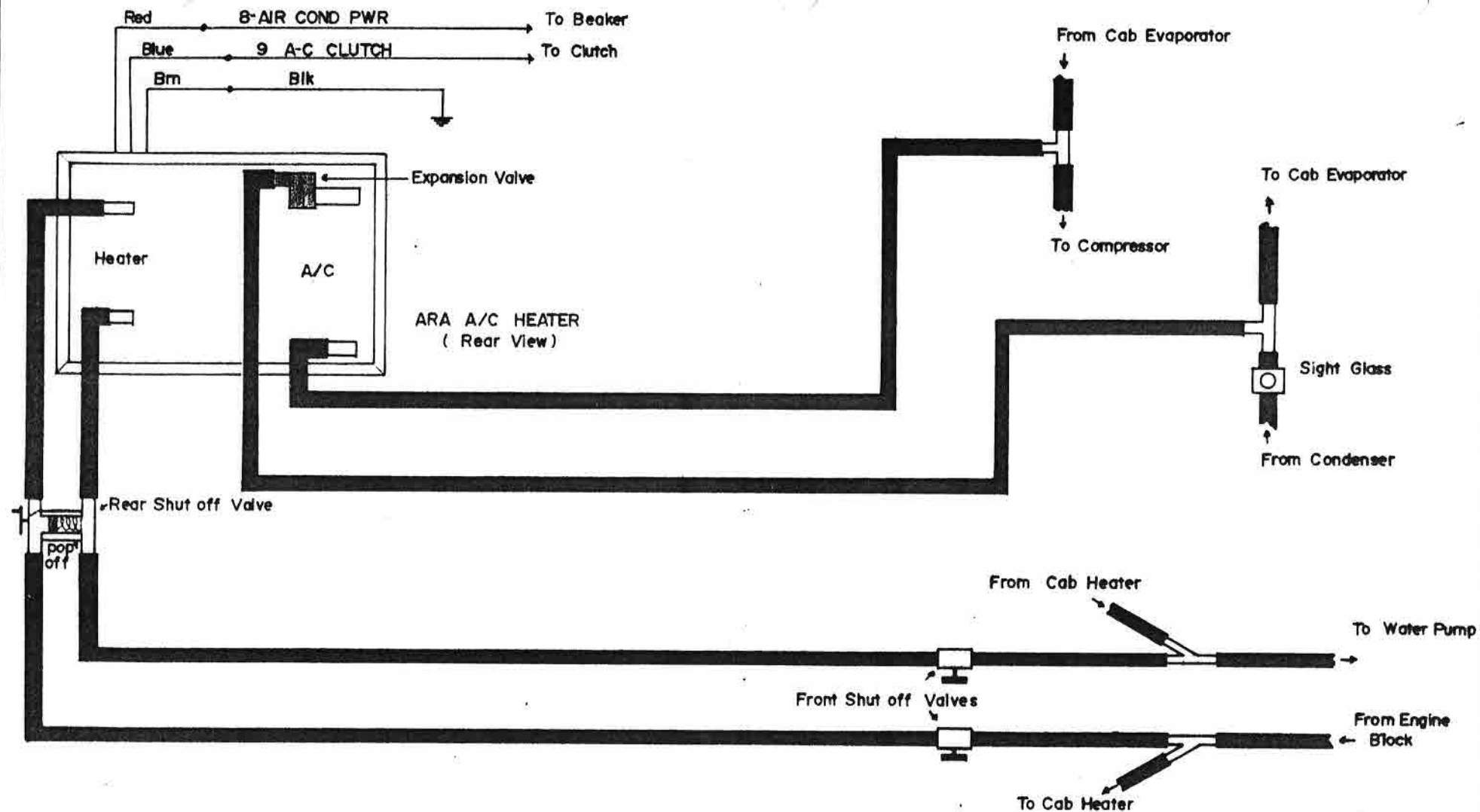
\* = Not Shown



4500-75

A0763-12-AH  
ELECTRICAL SCHEMATIC





Let.	By	Date	Chg.#	Description:

<b>TOLERANCES</b> (EXCEPT AS NOTED)
DECIMAL
±
FRACTIONAL
±
ANGULAR
±



PLUMBING DIAGRAM FOR REAR HEAT AIR COMBO

**THE HORTON CO.**

DRAWN BY RN	SCALE	MATERIAL
CHK'D,	DATE 6-82	DRAWING NO.
TRACED	APP'D	A-09

## BATTERY AND ALTERNATOR SYSTEM

### OPERATION

The standard battery system consists of two (2) batteries of at least 425 cold cranking amps, which are charged by a Leece Neville 7706A, 165 amp alternator. This alternator will charge both batteries at the same time through the battery isolator. Power is supplied to the system by a battery selector switch which will connect either battery or both batteries to the vehicle load.

Normally the battery switch should be turned on to the "Both" position and remain there until turned off between runs. The only exception to this would be to turn to only one battery when the vehicle will be at the scene for a long period of time. This would ensure that at least one battery is fully charged for the return trip.

The ammeter and voltmeter should be monitored closely. The engine speed and vehicle load should be balanced to maintain a voltage of greater than 13 volts and a "charge" state on the ammeter. For this reason, we recommend that either a hand throttle or an auto throttle device be installed which will raise the engine idle to allow higher alternator output.

It is very easy for your vehicle to develop an "Energy Shortage." Whenever possible, turn off all unneeded equipment and lighting. When it comes to making sure that your batteries are fully charged, the key words are "conserve" and "Maintenance."

## BATTERY AND ALTERNATOR SYSTEM

### SERVICE

If charging system problems do develop, it is important to repair the problem quickly. A vehicle that is allowed to operate with a defective charging system will drain the batteries and quickly leave the vehicle stranded.

The alternator system on your vehicle has been changed by The Horton Company to a heavy-duty Leece Neville system. To obtain warranty work on the alternator you must have the work done by an authorized service center. To find the name of a service center in your area, contact Leece-Neville or The Horton Company.

Follow the maintenance schedule closely and keep the batteries full and the terminals clean. Inspect the alternator belts often and tighten as needed. The belts should be tightened to 120 lbs. on a belt gauge, or for  $\frac{1}{4}$ " deflection when you apply 10 lbs. push/pull force.

If the belts are slipping, replace the old belt and clean both pulleys with sand paper and lacquer thinner.

The voltage regulator should be set at 14.2 volts. Make this adjustment only when both batteries are charged and the engine is at a fast idle. To set the regulator remove the hexplug and adjust the screw underneath to the proper setting.

#### Alternator "Quick Check"

Start the vehicle and set at fast idle. With no load on the vehicle, the voltmeter should read 14.2 volts. Put a load on the vehicle (headlights, dome lights, flasher, etc.). The voltage should not fall below 13 volts at 1500 RPM, and the ammeter should stay to the right of zero.

If the vehicle does not seem to be charging, check the "+" and "-" terminals of the regulator with a voltage tester for positive and ground. If there is no problem with voltage or ground, remove the wire from the "field" terminal and touch the wire only to ground. This by-passes the regulator. If the voltage goes up to 16 to 20 volts and the alternator starts charging then the regulator is bad, if there is no change, then the alternator is defective. If there is no spark when you touch the field wire to ground and you have power to the regulator, then check for an open wire, bad connection between the regulator and alternator or an open field in the alternator.

#### VEHICLE STARTING:

1. NEVER have any electrical circuits pre-loaded on your vehicle. The alternator may be damaged by the sudden electrical surge.
2. ALWAYS start the vehicle with BOTH BATTERIES. The only exception is when one of the batteries is known to be defective.
3. NEVER turn the batteries off while the vehicle engine is on. The alternator will be damaged, plus some of the electrical circuits may get a larger voltage spike from being disconnected from the system.
4. Turn the Master Disconnect Switch on.
5. Turn on any combination of electrical circuits, ONE AT A TIME. NEVER all at once. This will prevent the alternator belts from slipping on the engine and alternator pullys.

#### SUMMARY

In summary, there are several points which should be emphasized to all the drivers and mechanics who will use this vehicle.

- 
1. DO NOT PRE-LOAD THE ELECTRICAL SYSTEM.
  2. NEVER TURN THE BATTERIES OFF WHILE THE ENGINE IS RUNNING.
  3. CHECK THE ALTERNATOR BELTS REGULARLY FOR WEAR, TIGHTNESS, AND SLIPAGE.
  4. REPLACE ANY DEFECTIVE PART WITH THE EXACT SAME TYPE.
  5. CHECK BATTERIES TO BE SURE THEY ARE IN GOOD CONDITION AND CHARGED.
  6. MAINTAIN A GOOD MAINTENANCE PROGRAM REGULARLY.
  7. ALWAYS START YOUR VEHICLE WITH (2) BATTERIES.
  8. ALWAYS RUN YOUR VEHICLE WITH (2) BATTERIES AND SHUT DOWN (1) AT THE SCENE.
- 

#### NOTE:

Do not make any changes in the battery or alternator systems unless it has been approved by The Horton Company.

# Service parts lists

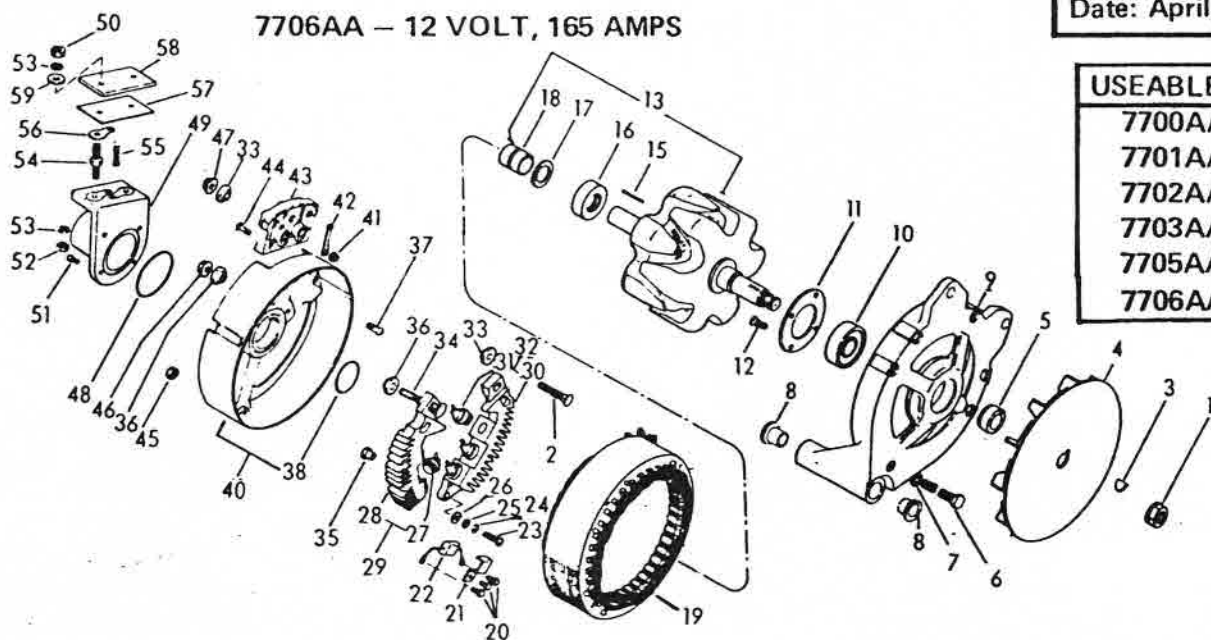
7700AA, 7701AA, 7702AA, 7703AA,  
7705AA — 12 VOLT, 130 AMPS  
7706AA — 12 VOLT, 165 AMPS

GROUP "R"

Form 3111-1 Rev.  
File: Alternator Parts  
List Section  
Date: April, 1981

## USEABLE CODE

7700AA = A  
7701AA = B  
7702AA = C  
7703AA = D  
7705AA = E  
7706AA = F



Ref. No.	Part No.	Qty	Description	Ref. No.	Part No.	Qty	Description
1	76985	1	Nut, 5/8-18 Hex. Flng. (A,B,C,D)	26	52066	2	Washer, Insulation
1	74107	1	Nut, 1/2-20 Hex. Flng. (E, F)	27	*71198	3	Rectifier & Lead Assembly
2	58432	1	Screw, Terminal	28	*77211	1	Mount, Rectifier
3	6399	1	Key, Woodruff No. 8	29	*79193	1	Rectifier Assembly
4	75594	1	Fan Assembly (A,B,C,D)	30	*77212	1	Mount, Rectifier
4	75633	1	Fan Assembly (E, F)	31	*71199	3	Rectifier & Lead Assembly
5	59225	1	Spacer, Fan (A,B,C,D)	32	*79415	1	Rectifier Assembly
5	59324	1	Spacer, Fan (E, F)	33	*73545	2	Bushing, Insulation
6	59972	3	Screw, 10-32 x 3-5/8 Hex.	34	78336	1	Screw, Terminal
7	75451	1	Washer, Belleville	35	*73547	2	Bushing, Insulation
8	73651	2	Insert, Mounting	36	*73546	2	Bushing, Insulation
9	*71177	1	Housing, D.E. Assembly (A)	37	5179	2	Screw, 10-32 x 1/2 Rd. Hd.
9	*71142	1	Housing, D.E. Assembly (B)	38	*57597	1	Ring, "O"
9	*71142	1	Housing, D.E. Assembly (C)	40	*71098	1	Housing & "O" Ring Assembly
9	*71188	1	Housing, D.E. Assembly (D)	41	*31587	3	Nut, Lock
9	*77773	1	Housing, D.E. Assembly (E, F)	42	73657	3	Jumper Assembly
10	*76262	1	Bearing, 305 (A,B,C,D)	43	*73635	1	Insulator
10	*57166	1	Bearing, 304 (E, F)	44	73659	3	Screw, 10-32 x 1/2 Sq. Hd.
11	59234	1	Retainer, Bearing	45	26175	3	Nut, Elastic Stop No. 10-32
12	58754	1	Screw, 10-32 x 7/16 Fl. Hd.	46	73009	1	Nut, Tenz 5/16-18
13	*77794	1	Rotor & Slip Ring Assembly (A,B,C,D)	47	59982	1	Nut, Tenz 1/4-20
13	*79397	1	Rotor & Slip Ring Assembly (E)	48	*57611	1	Ring, Sealing
13	*95022	1	Rotor & Slip Ring Assembly (F)	49	*58777	1	Housing, Brush Holder
15	30300	1	Wedge, Slot	50	32629	2	Nut, 10-32 Hex.
16	26853	1	Bearing, 203	51	13622	4	Screw, 8-32 x 7/16 Rd. Hd.
17	57626	1	Washer, Insulation	52	4340	2	Nut, 10-24 Hex.
18	*57462	1	Ring Assembly, Slip	53	4534	4	Lockwasher, No. 10 S'proof
19	*77792	1	Stator & Terminal Assy. (A, B, C, D, E)	54	*57613	2	Stud Terminal
19	*97078	1	Stator & Terminal Assembly (F)	55	*77302	2	Brush
20	73543	3	Screw, 6-32 Hex. Hd.	56	*57594	2	Jumper
21	73760	1	Clamp	57	*73814	1	Gasket
22	*73541	1	Capacitor Assembly,	58	*57615	1	Cover Terminal
23	78337	2	Screw, 10-32 x 3/4 Pan Hd. St.	59	5293	1	Washer, Guard
24	2434	2	Lockwasher, No. 10				
25	2385	2	Washer, Guard				

\*Suggested Service Parts



## RADIO CABLE ROUTING

Your vehicle is equipped with "raceways" that allow for the routing of, virtually, any sized radio cables or antenna leads. Pull wires, heat stamped "PULL WIRE" for easy identification, have been installed in the raceways to aid in the routing of the radio wires. The pull wires are one-piece from end to end and are looped at the access points listed below.

### TYPE I

- A) Behind the closeout cover located behind the driver's seat in the cab (origin).
- B) Behind the closeout cover in the oxygen bottle compartment.
- C) Behind the red flashing or strobe light on the front face, left hand side, of the module box.
- D) Behind the cushion closeout above the inhalation panel cabinet.
- E) The access hole behind the inhalation panel (termination).

### TYPE II

- A) Behind the closeout cover located behind the driver's seat in the cab (origin).
- B) The lower portion of the spare tire opening in the spare tire cabinet or the closeout cover if the cabinet has no spare tire opening.
- C) The access hole behind the inhalation panel (termination).

### TYPE III

- A) Behind the closeout panel located behind the passenger's seat in the cab (origin).
- B) Behind the red flashing or strobe light on the front face, right hand side, of the module box.
- C) The access hole behind the inhalation panel (termination).



Circuit Breaker Abbreciations  
Listed in Alphabetical Order

<u>Circuit</u>	<u>Wire #</u>	<u>Circuit Description</u>
AHC	80	Air Horns
BNL	59	Blue Night Lt.
CAI	127	Cab/Attendant Intercom
CBL	57	Center Beacon Lt.
CML	14	Console Map Lt.
DOW	46	Compt. & Door Open Warning
DCB	93	Clock Battery Power
ECL	50	Exterior Compartment Lts.
ESP	27	Electronic Siren Power
FFL	73	Fog Lt. Circuit
FGL	69	Flashing Grille Lts. (Separate)
FHL	61	Flashing Head Lts.
FLP	140	Fender Lights (intersection or cowl)
FTL	25	Front Twinsonic Lt.
HHS	72	Hand Held Spot Lt.
KHS	129	Koehler Hand Lt.
LSF	21	Left Side Flood
LSU	89	Laerdal Suction Unit
MDS	5	Master Disconnect Sw.
MRL	56	Modular Running Lts.
MSB	100	Mechanical Siren Control - Brake
O2P	31	Oxygen Control Power
OLP	69	Oscillating Lts. (Mars or Stinger)
PDL	37	Patient Dome Lts.
PMS	16	Post Mounted Spot Lts.
PRH	48	Patient Rear Heater (separate unit)
PRV	35	Power Roof Vent & Misc.
RAH	8	Rear A/C - Heater
REF	90	Refrigerator Power
RFL	18	Red Flashing Lts.
RLL	39	Rear Loading Lts.
RSF	23	Right Side Flood
RTL	103	Rear Twinsonic or Beacon Lt.
RYG	41	Red-Yellow-Grn. Patient Condition
SBP	52	Strobe Beacon Power
SFL	91	Sequential Flashing Lts.
SLP	54	Strobe Light Power
VAC	87	Vacuum Pump Circuit
VHM	75	Vehicle Hour Meter

NOTE: For breakers not shown, check in "Wiring Diagrams - Special Equipment".

## ELECTRICAL EQUIPMENT AMPERAGE RATINGS

<u>EQUIPMENT DESCRIPTION</u>	<u>AMPERAGE</u>	<u>BREAKER SIZE</u>
A) <u>Emergency Lighting</u>		
1) Red Flashing Circuit (8 lights)	11.6	20.0
Red Flashing Bulb	2.9	-
2) Twinsonic 12 Series	20.0	25.0
3) Twinsonic 12Q (Halogen)	12.5	25.0
4) Aero Twinsonic 24R	20.0	25.0
5) Aero Twinsonic 24RQ (Halogen)	12.5	25.0
6) Aero Dynic 24	25.0	30.0
7) Aero Dynic 24H (Halogen)	38.0	40.0
8) Federal 14 Beacon	6.0 (each)	15.0
9) Federal 184 Beacon	11.0 (each)	25.0
10) Federal 173 Beacon	8.5 (each)	20.0
11) Federal Fire Ball	4.0 (each)	15.0
12) Code 3 - 1100	11.0	15.0
13) Code 3 - 2200	22.0	30.0
14) Code 3 - 9000 XL	22.00	30.0
15) Whelen Strobe Universal Power Supply	4.5	10.0
16) Whelen Strobe Bar 8000 Series	8.0	15.0
17) Sequential Lights	1.0	20.0
18) Mars 888 Lt.	5.0	10.0
B) <u>Electronic Sirens</u>		
1) PA-170 (Federal)	15.0	20.0
2) PA-200	15.0	20.0
3) Unitrol	15.0 (per amp)	20.0 (40.0 Dual amp)
4) Minicom w/USA2	15.0	20.0
5) Code 3 3000 Series	14.0	20.0
6) Whelen WS Series	16.0	20.0
C) <u>Motor Driven Sirens</u>		
1) Model 28	75.0	-
2) Model 66	75.0	-
3) Model Q2B	100.0	-
D) <u>Miscellaneous Lighting</u>		
1) Scene Lights	2.9 (each)	10.0
2) Loading Lights (vans)	2.9 (each)	10.0
3) Loading Lights (modulars)	4.0 (each)	10.0
4) Compartment Light	2.0 (each)	20.0
5) Dome Light (Dual Filament) (van)	2.7 (each)	20.0
6) Dome Light (Single Filament) (modulars)	2.1 (each)	30.0
7) Spot Light	8.0 (each)	20.0
8) Spot Light (Aircraft Bulb)	10.0 (each)	25.0
9) Running Lights (marker/tail)	.25/.50 (each)	15.0
10) Fog Lights	8.0 (each)	20.0
11) High Intensity Lights	2.9 (each)	10.0

<u>EQUIPMENT DESCRIPTION</u>	<u>AMPERAGE</u>	<u>BREAKER SIZE</u>
E) <u>Miscellaneous Equipment</u>		
1) ARA Heater - A/C	15.0	25.0
2) Power Roof Vent	3.0	10.0
3) Auto Throttle	1.5 (engaged)	10.0
4) Vacuum Pump	5.0	10.0
5) Buell Air Horn	16.0	20.0
6) Grover Air Horn (1556)	50.5	-
7) Federal 58 Horn	8	10.0
8) Sink Pump	16.0	20.0
9) Koehler Wheat Light	2.0	10.0
10) Hand Held Spot Light (max)	8.0	10.0
11) 1000 W Vanner Inverter	90.0 (full load)	-
12) 1000 W Vanner Inverter	2.8 (no load)	-



Terminals: .250 Male Blade , 5/16 at T-B, T-  
male. main harness T-D

F	E	D	C	B	A
	2 Siren Brown	1 Siren Yellow	26-1 Orange	R-93 Blue	R-89 Red
	H-1 White	37 White	R-9 Blue	8 Red	31 Red
H-1 Red	H 56 Brown	H-02 Brown	3-02 White	2-02 Brown	1-02 Orange
H-1 Green	H-1 Yellow			20 Brown	19 Blue

46 Blue	
47 Orange	47 Yellow

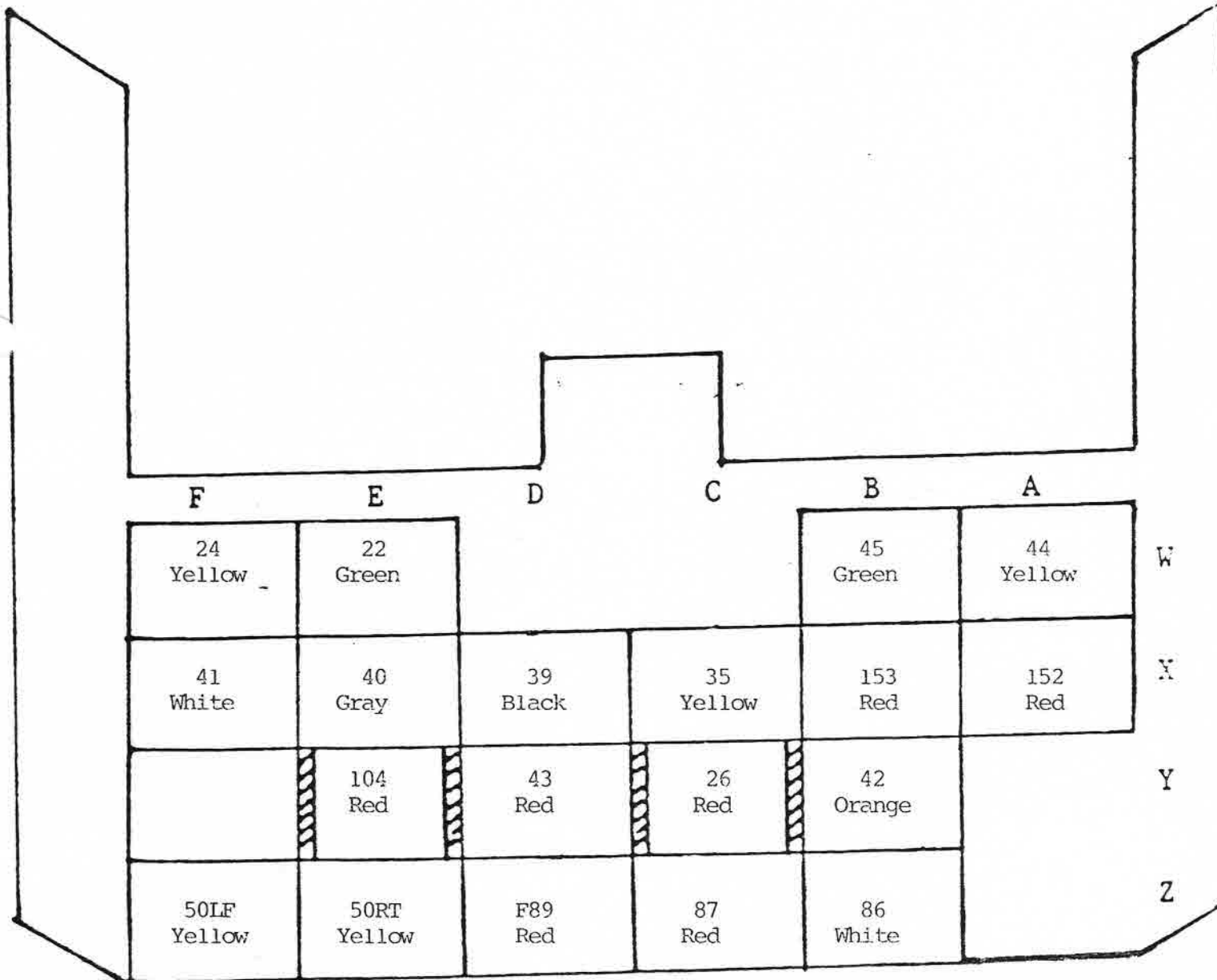
Seineuit  
1951

COMPANY: Horton 1-YA

CONNECTOR: Packard # 8917253

Terminal Block #

TERMINALS: .250 male blades 5/16 wide at Y-C & Y-E



CAB CONSOLE

PIN	PLUG 1	PLUG 2	PLUG 3
1	26 Twinsonic	10 Ga Spare	37 Dome Lt Pwr
2	12 Ammeter Pos	22 LF Flood Lts	1 Siren Spkr
3	13 Ammeter Neg	24 Rt Flood Lts	2 Siren Spkr
4	47 P Door Lt	40 Loading Lt	7 Ignition
5	47 C Door Lt	85 R Alarm Pwr	C1 Marker Relay
6	2 Batt 1 Lt	86 Rev Alarm	56 Marker Lts
7	4 Batt 2 Lt	9F AC Clutch	16 Spot Lts
8	43 RYG Red Lt	9R AC Clutch	31 0.2 Pwr
9	44 RYG Yell Lt	42 RYG Buzzer	35 R Vent Pwr
10	45 RYG Grn Lt	1F Spare	39 Loading Lt Pwr
11	63 Flasher	2F Spare	41 RYG Pwr
12	64 Flasher	3F Spare	50 LF Compt Lt.
13	152 AC Ind Lt	4F Spare	50 Rt Comp Lt
14	153 AC Ind Lt	1 02 Spare	87 Vacuum Pwr
15	29 Horn SW	2 02 Spare	157 Throttle Pwr
16	30 Chassis Horn	3 02 Spare	19 Rf Lts
17		4 02 Spare	20 Rf lts
18	GRND 1	10 Back Lt	67 Grille lts
19	GRND 2		68 Grille Lts
20	GRND 3		
21	GRND 4		
22	104 Twinsonic		8 Air Cond Pwr

[illegible]

<b>TOLERANCES</b> (EXCEPT AS NOTED)	<b>REVISIONS</b>			<b>PIN - PLUG LAYOUT MODULARS</b>		
	<b>NO.</b>	<b>DATE</b>	<b>BY</b>	<b>THE HORTON CO.</b>		
	1					
	2					
	3					
<b>DECIMAL</b> $\pm$	4			<b>DRAWN BY</b> TAB	<b>SCALE</b>	<b>MATERIAL</b>
<b>FRACTIONAL</b> $\pm$	5			<b>CHK'D</b>	<b>DATE</b>	<b>DRAWING NO.</b>
<b>ANGULAR</b> $\pm$	6			<b>TRACED</b>	<b>APP'D</b>	

Pin Plug 4

Pin

Plug 4

## Plug 5

1		37 Dome Lt. Pwr.	
2	31 02 Pwr	38 Hi Dome Lt.	
3	35 R Vent Pwr	38 Lo Dome Lt.	
4	36 Roof Vent		
5	38 Dome Lt. Sw.		
6	41 RYG Pwr		
7	42 RYG Buzzer		
8	43 RYG Red Lt.		
9	44 RYG Yell. Lt.		
10	45 RYG GRN Lt.		
11	87 Vacuum Pwr.		
12	88 Vacuum Pump		
13	R93 Clock Pwr.		
14	1 02 Spare		
15	2 02 Spare		
16	3 02 Spare		
17	4 02 Spare		
18	1 R Spare		
19	2 R Spare		
20	Ground 5		
21	Ground 6		
22			

NOTES:

[illegible][illegible]

(EXCEPT AS NOTED)

DECIMAL

+

FRACTIONAL

 $\pm$ 

ANGULAR

士



# KORTON

## Pin - Plug Layout Modulares

# THE HORTON CO.

DRAWN BY

SCALE

MATERIAL	QTY	UNIT	PRICE	AMOUNT	TAXES	TOTAL
Cement	100	bags	1.20	120.00	12.00	132.00
Sand	200	cubic yards	1.50	300.00	30.00	330.00
Gravel	150	cubic yards	1.80	270.00	27.00	297.00
Lumber	500	boards	0.40	200.00	20.00	220.00
Paint	10	gallons	2.00	20.00	2.00	22.00
Nails	100	pounds	0.05	5.00	0.50	5.50
Total				925.00	94.50	1019.50

CHK'D

DATE	
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DRAWING NO.
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TRACED

APP'D	
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Cab Console (Overhead)

Pin	Plug 1	Plug 2	
1	8 Air Cond. Pwr.	37 Dome Lt. Pwr.	
2	1 Siren Spkr	40 Loading Lt	
3	2 Siren Spkr	41 RYG Pwr.	
4	2 Batt. 1 Lt	42 RYG Buzzer	
5	4 Batt. 2 Lt	43 RYG Red Lt	
6	7 Ignition	44 RYG Yell Lt.	
7	F9 - AC Clutch	45 RYG Grn Lt.	
8	R9 - AC Clutch	47 Door Open Lt.	
9	10 Back Lt.	157 Throttle Pwr.	
10	12 Ammeter Pos		
11	13 Ammeter Neg	165 Batt Hot	
12	16 Spot Lts.	1 F Spare	
13	18 RF Switch	2 F Spare	
14		3 F Spare	
15	22 LF Flood Lts.	4 F Spare	
16	24 RT Flood Lts.	1 02 Spare	
17	29 Horn SW	2 02 Spare	
18	30 Chassis Horn	F89 12V Outlet	
19	31 02 Pwr	R 89 12V Outlet	
20	35 R Vent Pwr	Ground 1	
21	39 Loading Lt. Pwr.	Ground 2	
22	26 Twinsonic	18 RF Pwr	

NOTES:

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is a vertical margin line on the left side, creating a narrow left margin. The paper appears to be from a notebook or a standard ruled sheet of paper.

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### Rear Control Panel

Pin                  Plug 4

1	37 Dome Lt. Pwr.		
2	31 O2 Pwr.		
3	35 R Vent Pwr.		
4	36 Roof Vent		
5			
6	38 Dome Lt. Sw		
7	38 Lo Dome Lt.		
8	41 RYG Pwr		
9	42 RYG Buzzer		
10	43 RYG Red Lt		
11	44 RYG Yell Lt		
12	45 RYG Grn Lt		
13	1 O2 Spare		
14	2 O2 Spare		
15	1 R Spare		
16	2 R Spare		
17			
18			
19			
20	Ground 3		
21	Ground 4		
22	38 Hi Dome Lts.		

NOTES:

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Let.	By		Chg. #	Description:

### TOLERANCES

(EXCEPT AS NOTED)

DECIMAL

 $\pm$ 

FRACTIONAL

士

ANGULAR

士



# HORTON

## Pin - Plug Layout Vans

# THE HORTON CO.

DRAWN BY

SCALE
-------

MATERIAL	QTY	UNIT	PRICE	AMOUNT	TOTAL
100	100	100	100	100	100
200	200	200	200	200	200
300	300	300	300	300	300
400	400	400	400	400	400
500	500	500	500	500	500
600	600	600	600	600	600
700	700	700	700	700	700
800	800	800	800	800	800
900	900	900	900	900	900
1000	1000	1000	1000	1000	1000
1100	1100	1100	1100	1100	1100
1200	1200	1200	1200	1200	1200
1300	1300	1300	1300	1300	1300
1400	1400	1400	1400	1400	1400
1500	1500	1500	1500	1500	1500
1600	1600	1600	1600	1600	1600
1700	1700	1700	1700	1700	1700
1800	1800	1800	1800	1800	1800
1900	1900	1900	1900	1900	1900
2000	2000	2000	2000	2000	2000
2100	2100	2100	2100	2100	2100
2200	2200	2200	2200	2200	

CHK'D

DATE
------

DRAWING NO.
-------------

TRACED

APP'D	
-------	--

### Wire Code Explanation

Your electrical system has been designed for easy trouble-shooting and repair should a problem arise in the future. The following information will help you find an electrical wire for a component addition or for the repair of a faulty circuit.

The electrical code is very simple to understand and follow. The wires in the vehicle circuits are heat stamped with a code description. This description is divided into two parts. The first part is the wire number that is assigned to the electrical circuit. The second part is the name of the circuit. For example, 8-Air Cond. Pwr. is wire number 8 and supplies power to the air conditioner/heater combo.

The wire code is stamped every 4" from the start of an electrical circuit to the end of the electrical circuit. In addition the wire number will be marked by wrap-on tape in many areas (circuit breakers, switches, etc.) to allow you to quickly find the circuit.

You also may find a wrap-on marker applied to one of the extra wires in the harness. This is done when it is necessary to use these wires for a special or optional circuit.

The following pages contain a listing of wire numbers and an explanation of what they do and how they run through the harness.

## Wire Listing and Circuit Explanation

<u>Color</u>	<u>Spare Wires</u>
Blue	1F Spare——starts under the hood by the driver's side battery, runs to under the dash in a loop by the fuse block and continues to the console through plug 2 (on vans) or plug 3 (modulars).
Green	2F Spare——same as above
Black	3F Spare——same as above
Gray	4F Spare——same as above
Orange	102 Spare runs from console plug 2 (vans) or plug 3 (modulars) to rear electrical switch panel plug 4
Brown	202 spare same as above
White	302 spare same as above (modular only)
Yellow	402 spare same as above (modulars only)
Blue	1R spare (vans) runs from rear switch panel plug 4 to the area by the rear door switches. Behind tail lt.
Green	2R spare same as above
Blue	1R spare (modulars)..runs from rear switch panel plug 4 to behind cabinet close-out tied up for future use
Green	2R spare (modulars) same as above

NOTE: All spares wires are 14 ga. and may be used only on circuits drawing less than 20 amps.

## Wire Listing and Circuit Explanation

### 2 Gauge Battery and Alternator Wiring

<u>Wire Number</u>	<u>Description</u>
1	Power wire from the positive post on the #1 battery to the starter solenoid to the #1 post of the battery isolator.
2	Power wire from the #1 post on the battery isolator to the #1 post on the M-714 battery switch
3	Power wire from the positive post on the #2 battery to the starter solenoid to the #1 post of the battery isolator
4	Power wire from the #2 post of the battery isolator to the #2 post on the M-714 battery switch
5	Power jumper between the add-on starter solenoid (#2) and the factory starter solenoid (#1)
8	Alternator output wire from pos. on alternator to the ammeter shunt.
9	Power wire from ammeter shunt to "A" post on battery isolator
10	Buss supply wire from ammeter shunt to master solenoid and circuit breaker buss
11	Power wire from "C" terminal on M-714 battery switch to "A" post of battery isolator and ammeter shunt
14	Power wire from ammeter shunt to optional 110 volt inverter
15	Power wire from "A" post on battery isolator to solenoid for mechanical siren
16	Power wire from solenoid for mechanical siren to the siren motor.
17	Power wire from ammeter shunt to optional 110v generator.
21	Maxi-Amp wire from A/C terminals on alternator to A/C terminals on Maxi-Amp.
22	Same as above.
23	Same as above.

# Wire Listing and Circuit Explanation

<u>Wire Number</u>	<u>Color</u>	<u>Description</u>
1 Siren Spkr	Yell	runs from electronic siren to siren speakers
2 Siren Spkr	Brn	same as above
2	Org	runs from M714 battery switch to battery 1 indicator light
4	Org	same as above
5	Red	From MDS breaker to master switch
6	Org	from master to control post of master solenoid
7	Red	from vehicle ignition circuit to control post of ignition solenoid-controls add on ignition bus
8	Red	power wire from RAH breaker to rear heater/AC
R9	Blue	Clutch feed wire from rear A/C to blocking diode in console
F9	Blue	Clutch feed wire from diode in console to A/C clutch
10	Gray	from chassis instrument light circuit to console backlighting bulbs
11	Red	Chassis power feed from alternator or maxi-amp output
12	Red	wire from ammeter shunt to pos. on ammeter
13	Blk	wire from ammeter shunt to neg. on ammeter
14	Blk	power wire from CML breaker to optional map light switch
15	Wht	wire from map light switch to optional map light
16	Gray	power wire from PMS breaker to post mounted spotlights
17	Yell	Jumper wire from twinsonic switch to the indicator light on the red flashing switch
18	Yell	ground supply wire from red flashing switch to the neg. terminal on electronic flasher
18	Red	power wire from RFL breaker to pos. terminal on the electronic flasher
19	Blue	wire from L terminal on electronic flasher to #1 bank of red flashing lights
20	Brown	wire from L terminal on electrino flasher to #2 bank of red flashing lights

<u>Wire Number</u>	<u>Color</u>	<u>Description</u>
21	Green	power wire from LSF breaker to left flood switch
22	Green	wire from left flood switch to left flood light
23	Yell	power wire from RSF breaker to right flood switch
24	Yell	wire from right flood switch to right flood light
25	Red	power wire from FTL breaker to the twinsonic switch
26	Red	wire from twinsonic switch to the twinsonic light
27	Red	power wire from ESP breaker to electronic siren
28	White	wire from horn/siren switch to electronic siren
29	Brown	wire from horn/siren switch to horn switch on column
30	Black	wire from horn/siren switch to chassis horns on horn relay
31	Red	power wire from O2P breaker to the oxygen switch
32	Red	power jumper from 31 wire to O2 bar light
33	Red	power jumper from 35 wire to optional gooseneck or bar lights
34	(spare)	wire from 35 power to optional high intensity lights
35	Yell	power wire from PRV breaker to power roof vent switch also used to power misc. O2 area circuits
36	Yell	wire from power vent switch to power roof vent
37	White	power wire from PD2 breaker to dome light switches
38	White	ground control wire from dome light relay to the door switches
38 Hi	Org	wire from hi dome switch to hi dome lt. circuit
38 Lo	Red	wire from lo dome switch to lo dome light circuit
39	Blk	power wire from RLL breaker to loading light switch in console and to switch in rear doors
40	Gray	wire from loading light switch in console to rear loading light and output of door switch
41	White	power wire from RYG breaker to patient condition switches in rear switch panel



<u>Wire Number</u>	<u>Color</u>	<u>Description</u>
42	Org	wire from buzzer switch in rear panel to buzzer in console
43	Red	wire from red patient condition switch to red light in console
44	Yell	wire from yell. patient condition switch to yell. light in console
45	Green	wire from green patient condition switch to green light in console
46C	Blue	ground control wire from under seat base to door switches in exterior compartments
47C	Org	wire from compartment open warning light to door switches in exterior compartment - grounds through switch on 46C
47P	Yell	wire from door open warning light to door switches in rear and side doors. Grounds through switch
47	Red	power wire from POW breaker to door open and comp. open warning lights
48	Black	power wire from PRH breaker to optional separate heater switch
49	Black	power wire from heater switch to optional heater motor
RT50	Blue	power from ECL breaker to right side exterior comp. lights
LF50	Blue	power wire from ECL breaker to left side exterior compartment lights
52	Blue	power wire from SLP breaker to strobe lt. switch
53	(spare)	wire from strobe switch to strobe power supply
54	Blue	power wire from SBP breaker to strobe beacon switch
55	(spare)	wire from strobe beacon switch to beacon power supply
56	Red	power wire from MPL breaker to marker light relay pri.
H56	Brown	wire from marker lt. relay sec. to marker and tail lt.

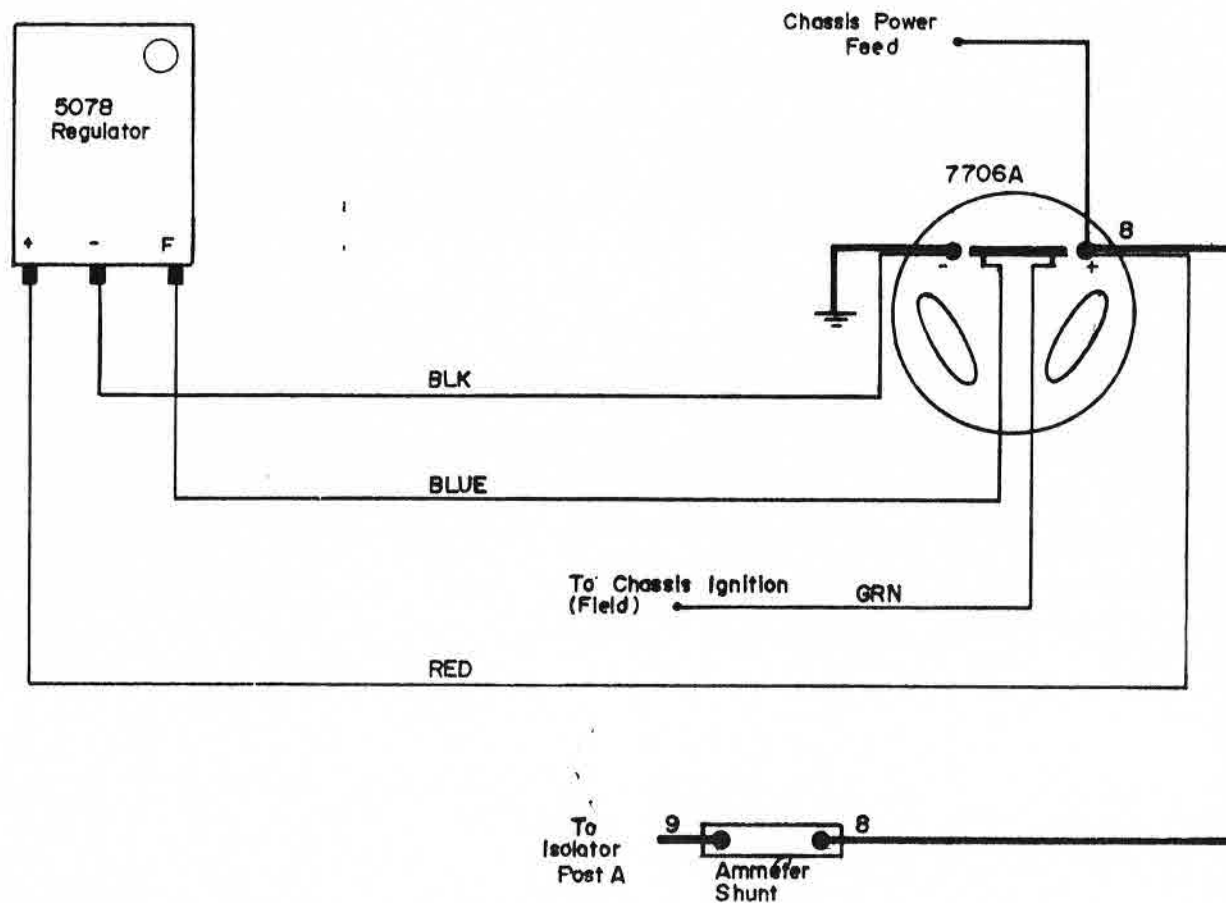



<u>Wire Number</u>	<u>Color</u>	<u>Description</u>
57	Yell	power wire from CBL breaker to center beacon switch
58	Red	wire from center beacon switch to optional center beacon
59	Blue	power from BNL breaker to blue night light switch
60	Blue	wire from blue night switch to optional blue night light
61	Red	power wire from FHL breaker to headlight flasher switch
62	Red	wire from flasher switch to headlight flasher unit
63	Black	wire from flasher unit to left headlight hi beam
64	Black	wire from flasher unit to right headlight hi beam
65	Red	power wire from FGL breaker to grille lt. switch (when switched separately)
66	Red	wire from grille lt. switch to flasher for grille lights
67	Red	wire from electronic flasher to right grille lt.
68	Blue	wire from electronic flasher to left grille lt.
69	Red	power wire from 888 breaker to Mars 888 light switch (may also be used from STG breaker to stinger lt. switch)
70	(spare)	wire from 888 switch to optional Mars 888 light (may also be from Stinger lts. sw. to optional light).
72	(spare)	wire from HHS breaker to hand-held spotlight (optional)
73	Grn	power wire from FFL breaker to fog lt. switch
74	(spare)	wire from fog lt. switch to optional fog lights
75	Red	power wire from VHM breaker to hour meter (optional)
76 thru 79	(spare)	control wires for optional tachograph
80	Red	power wire from AHC breaker to optional air horn compressor

<u>Wire Number</u>	<u>Color</u>	<u>Description</u>
81	Red	power wire from AHC breaker to air horn valve
82	Blk	control wire from air horn valve to air horn switch (ground)
85	Wht.	wire from back-up lt. circuit (H-1 white) to rev. alarm sw.
86	Whit.	wire from rev. alarm switch to optional rev. alarm
87	Red	power wire from VAC breaker to vacuum pump switch
88	Red	power wire from switch to optional vacuum pump
F & R 89	Red	power wire from LSU breaker to front & rear 12 volt outlets
90	Red	power wire from REF breaker to optional refrigerator
91 & 92	(spare)	control wires for optional sequential flasher
93	Blue	power wire from PCP breaker to clock "battery line"
94	Blue	power wire from ignition to clock "ignition line"
100	(spare)	wire from MSB breaker to mechanical siren solenoids and brake
101	(spare)	wire from siren brake switch to siren brake
102	(spare)	wire from siren solenoid coil to siren switch (ground)
103	Red	power wire RTL breaker to rear twinsonic switch
104	Red	wire from rear twinsonic switch to rear twinsonic or beacon
108	-	wire from radio to + of chassis radio plug
109	-	wire from radio to lamp wire in chassis radio plug
110 thru 114	(spare)	speaker wires from cab radio to speakers
115	Red	power wire from battery charger, charger switch, or charger inlet to #1 post of battery isolator
116	Red	power wire from battery charger, charger switch or charger inlet to #2 post of battery isolator
117	Red	power wire from single output battery chargers to charger sw.
118 thru 121	(spare)	control wires from 1000 w. inverter to remote switch
122 thru 126	(spare)	control wires from I-com base to substation

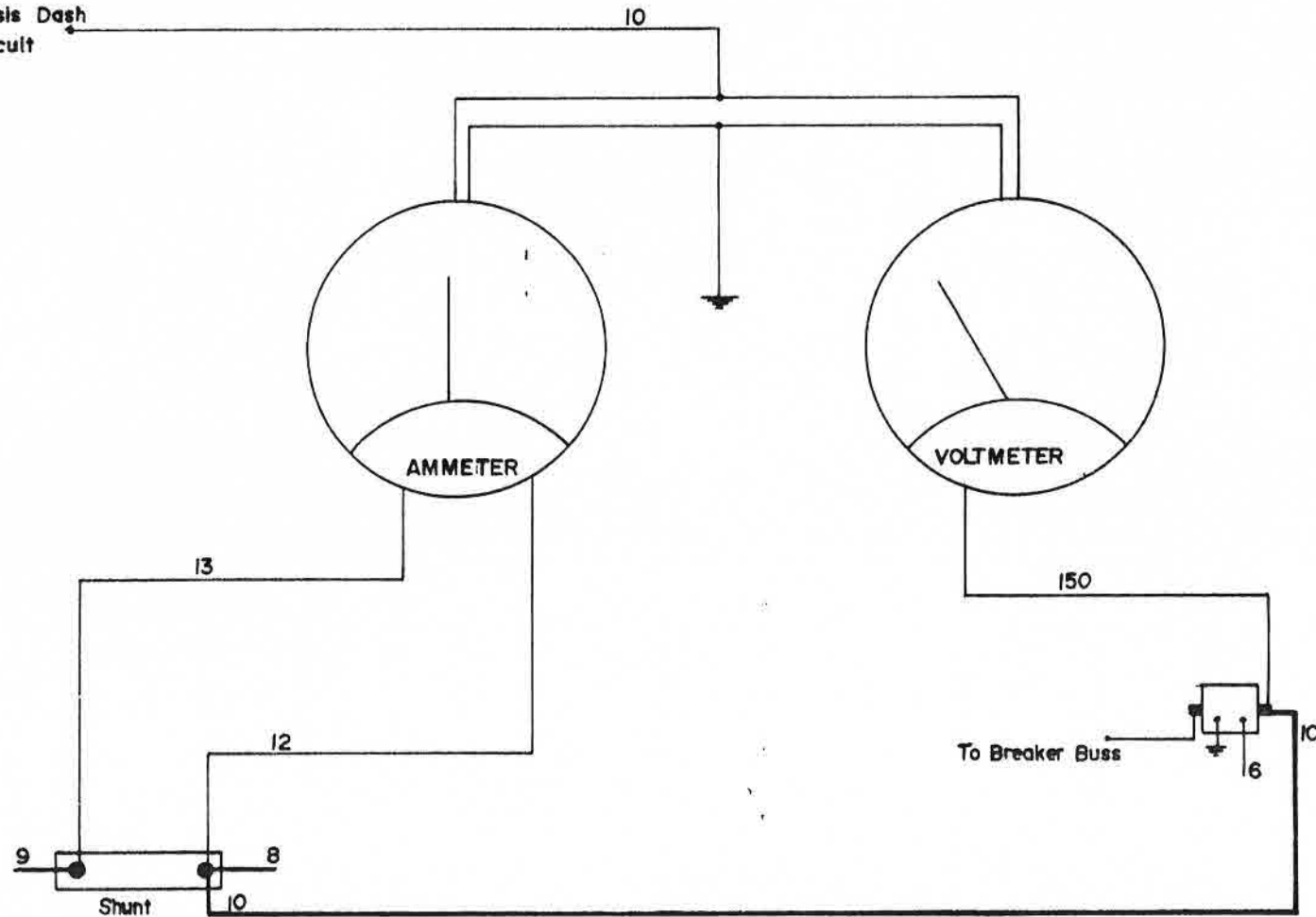
<u>Wire Number</u>	<u>Color</u>	<u>Description</u>
127	Red	power wire from CAI breaker to I-com base station
128	(spare)	power wire from KHS breaker to the Koehler hand-held light
140	Red	power wire from CLP breaker to switch for intersection lts.
141	Red	power wire from intersection lt. switch to flasher
142	(spare)	power wire from flasher to intersection at cowl lts.
143	(spare)	power wire from flasher to intersection or cowl lts.
150	Red	power wire from the master solenoid input to the voltmeter
151	Red	jumper wire from chassis starter solenoid to the add-on starter solenoid coil
152	Red	wire from the 110v to 12v AC transformer to the 110v indicator light in console
153	Blk	wire from the 110v to 12 VAC transformer to the 110v indicator light in console
157	Black	power wire from the ATP breaker to the auto throttle
158	Red	wire from brake lt. sw. output to the auto throttle
159	Grn	wire from neutral safety switch to the auto throttle
165	Red	power feed from #1 post on battery isolator to the input of any breakers supplying "battery hot" power (LSU, DCB)
C-1	Brown	control wire from chassis tail lt. circuit to marker lt. relay coil
H-1	Blue	wire from chassis circuit to rear fuel tank sending unit
H-1	Green	wire from chassis circuit to right turn/brake lt.
H-1	Yell.	wire from chassis circuit to left turn/brake lt.
H-1	White	wire from chassis circuit to back-up lights

NOTE: All H-1 wires connect under driver's seat base on cutaway van units and in rear portion of console on cab & chassis units.



					TOLERANCES (EXCEPT AS NOTED)		LEECE NEVILLE ALTERNATOR SYSTEM			
					DECIMAL					
					±					
					FRACTIONAL					
					±					
					ANGULAR					
					±					
Let.	By	Date	Chg <sup>#</sup>	Description:			THE HORTON CO.			
							DRAWN BY RN		SCALE	MATERIAL
							CHK'D.		DATE 6-82	DRAWING NO. 10
							APP'D			

To Chassis Dash  
Light circuit



#### TOLERANCES

(EXCEPT AS NOTED)

DECIMAL

±

FRACTIONAL

±

ANGULAR

±



**HORTON**

AMMETER and VOLTMETER WIRING

# THE HORTON CO.

DRAWN BY  
RN

SCALE

MATERIAL

CHK'D

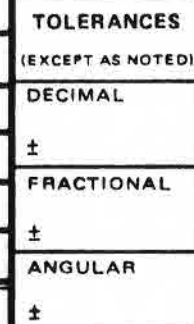
DATE  
6-82

DRAWING NO.  
11

TRACED

APP'D

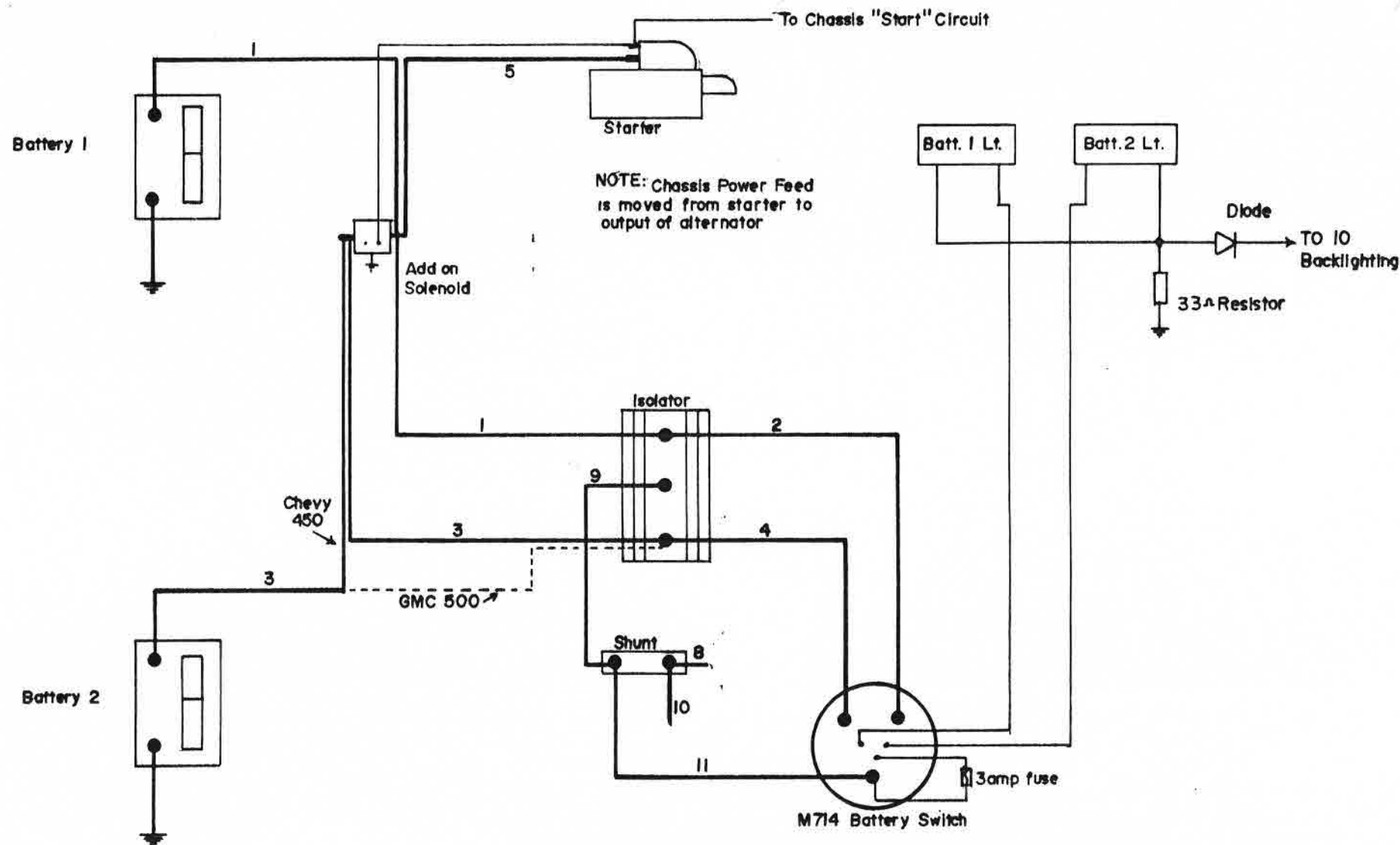
Let.	By	Date	Chg. <sup>22</sup>	Description:



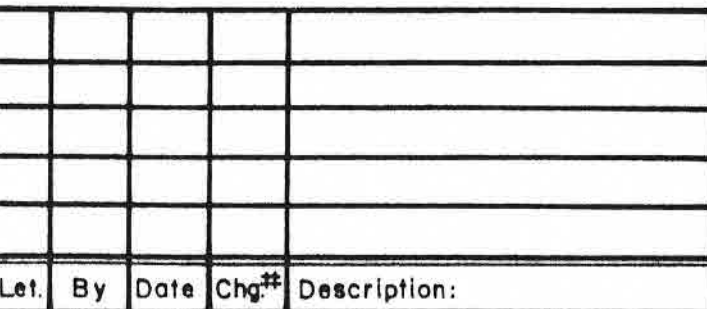
# THE HORTON CO.

DRAWN BY RN	SCALE	MATERIAL
CHK'D	DATE 6-82	DRAWING NO.
TRACED	APP'D	12

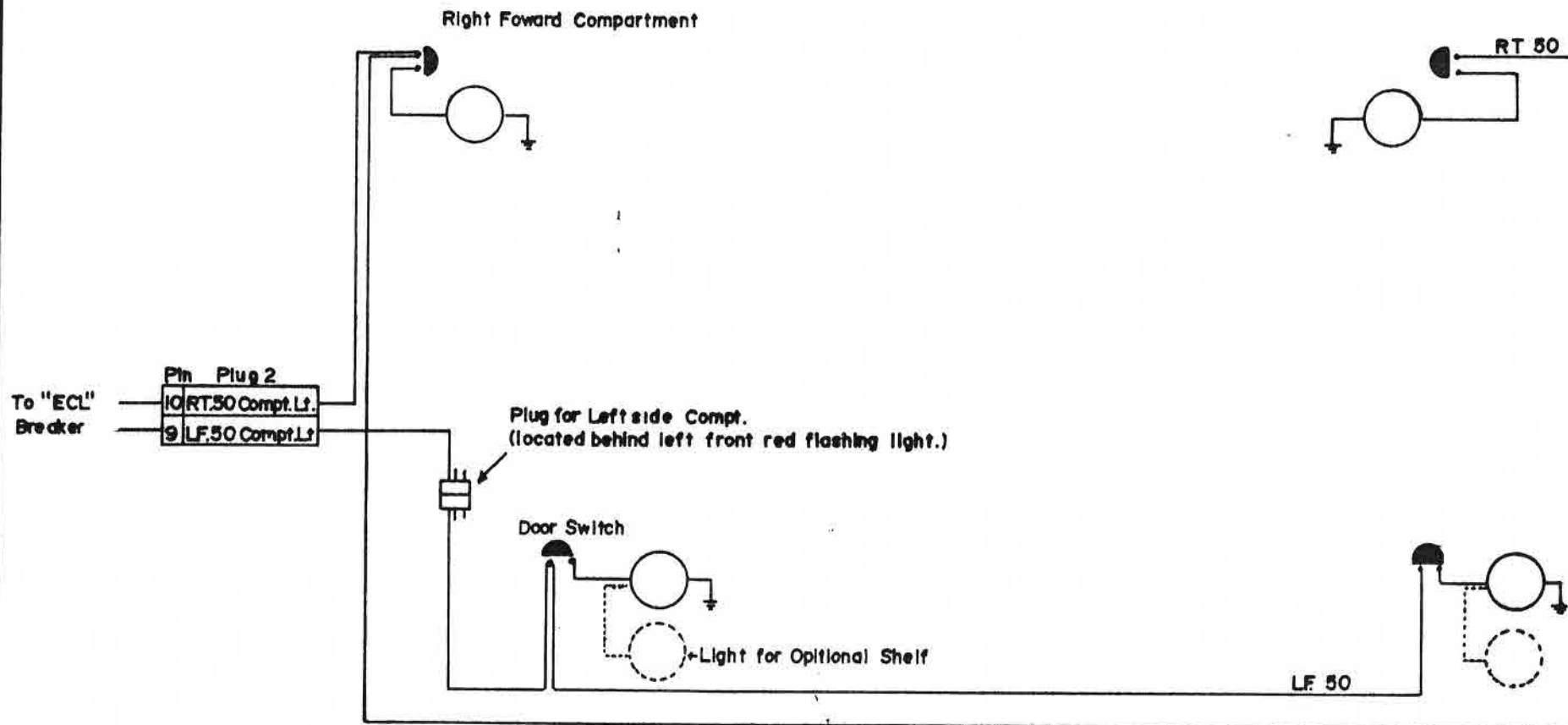
Lat.	By	Date	Chg.#	Description:
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TOLERANCES (EXCEPT AS NOTED)				BATTERY SYSTEM WIRING ---- CHEVY-GMC	
			DECIMAL	<h1>THE HORTON CO.</h1>	
			±		
			FRACTIONAL		
			±		
			ANGULAR	DRAWN BY RN SCALE MATERIAL	
			±	CHK'D DATE 6-82 DRAWING NO.	
				TRACED APP'D 12A	
Let.	By	Date	Chg#	Description:	

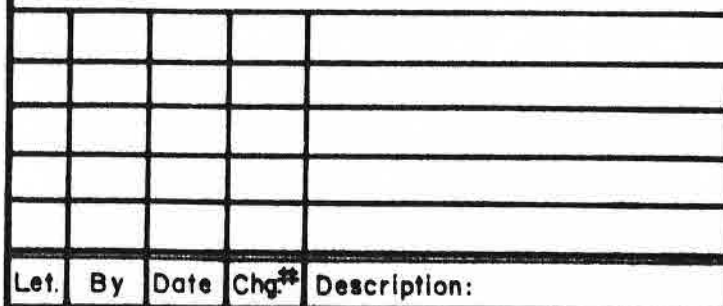






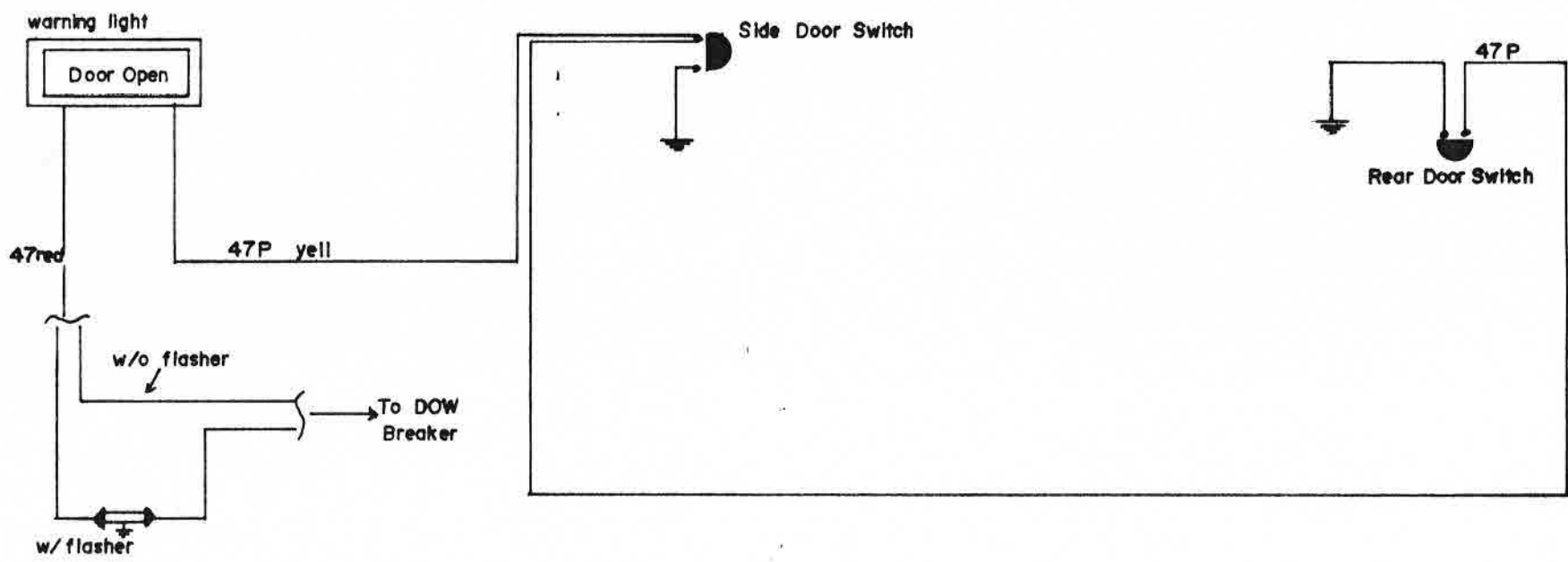
					<b>TOLERANCES</b> (EXCEPT AS NOTED)	<div style="font-size: 48px; margin: 0;">+</div> <div style="font-size: 24px; margin: 0;">HORTON</div>	COMPARTMENT LIGHT CIRCUIT-- 450MR, 500II		
					DECIMAL		<div style="font-size: 48px; margin: 0;">THE HORTON CO.</div>		
					±				
					FRACTIONAL				
					±				
ANGULAR				DRAWN BY RN	SCALE	MATERIAL			
					±	<div style="font-size: 48px; margin: 0;">HORTON</div>	CHK'D	DATE 6-82	DRAWING NO.
					TRACED		APP'D	113A	


Let.	By	Date	Chg. #	Description:



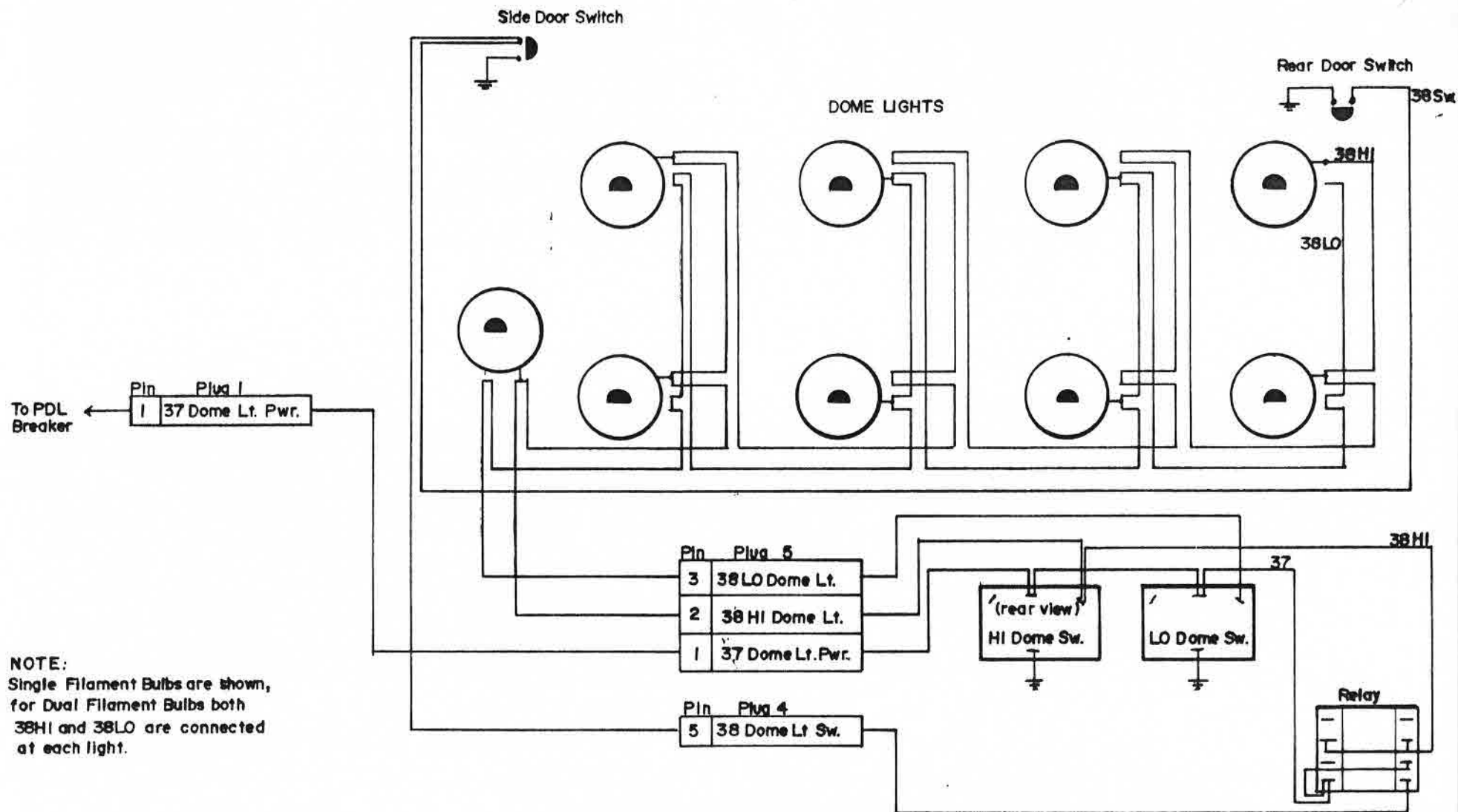
DRAWN BY RN	SCALE	MATERIAL
CHK'D	DATE 6-82	DRAWING NO.
TRACED	APP'D	114 A






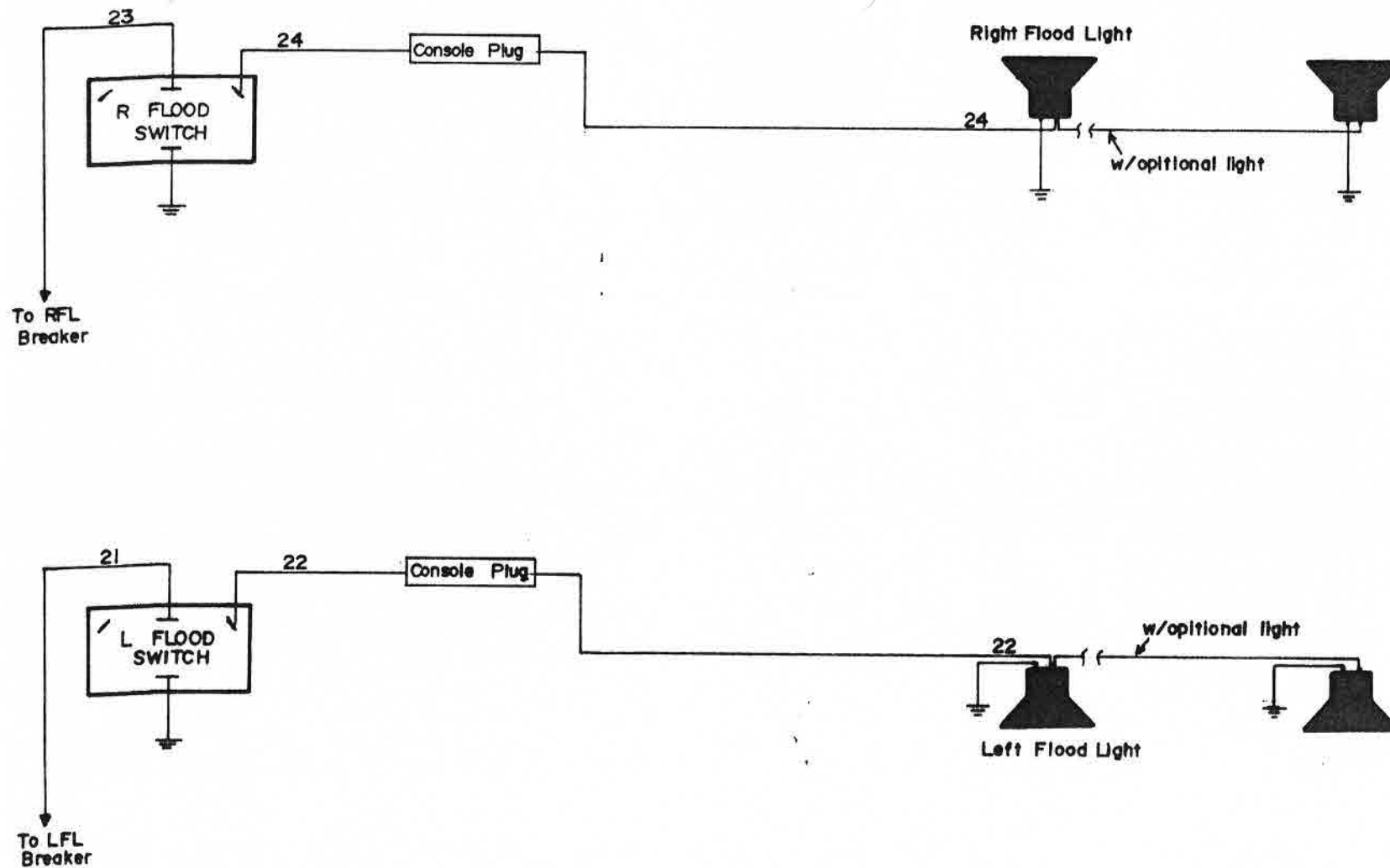
					<b>TOLERANCES</b> (EXCEPT AS NOTED)	<b>PATIENT DOOR OPEN WARNING CIRCUIT—ALL VEHICLES</b>		
					DECIMAL	<div style="border: 2px solid black; padding: 10px; text-align: center;">  </div>		
					±			
					FRACTIONAL			
					±			
ANGULAR								
±								
Let.	By	Date	Chg. #	Description:				




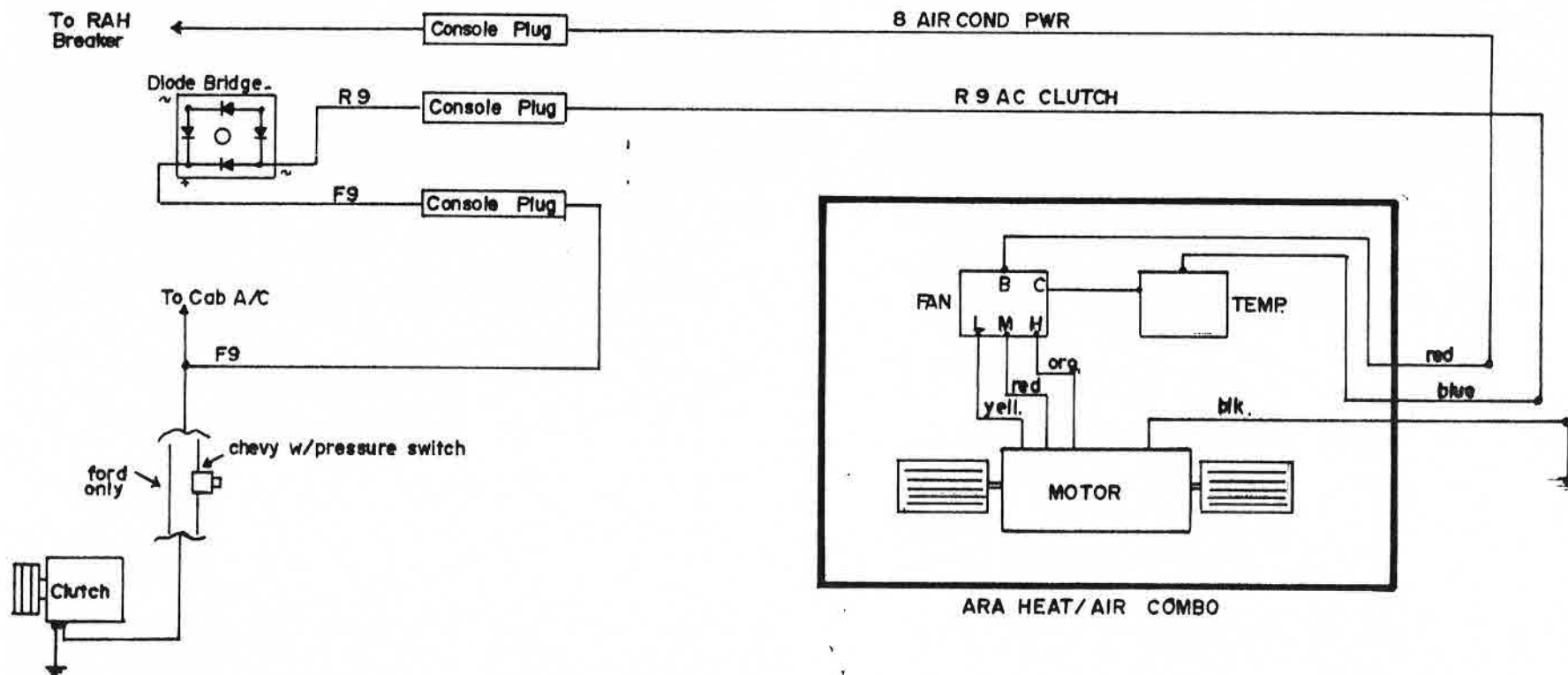



NOTE:  
Single Filament Bulbs are shown,  
for Dual Filament Bulbs both  
38HI and 38LO are connected  
at each light.

				TOLERANCES (EXCEPT AS NOTED)				DOME LIGHT CIRCUIT--- MODULARS	
				DECIMAL				<h1>THE HORTON CO.</h1>	
				±					
				FRACTIONAL					
				±					
				ANGULAR		DRAWN BY RN		SCALE	MATERIAL
				±		CHK'D.		DATE 6-82	DRAWING NO.
						TRACED		APP'D	116
Let.	By	Date	Chg <sup>#</sup>	Description:					



				TOLERANCES (EXCEPT AS NOTED)				LEFT and RIGHT FLOOD LIGHT CIRCUITS	
				DECIMAL				<h1>THE HORTON CO.</h1>	
				±					
				FRACTIONAL					
				±					
				ANGULAR		DRAWN BY R.N.		SCALE	MATERIAL
				±		CHK'D		DATE 6-62	DRAWING NO. 17
						TRACED		APP'D	
Let.	By	Date	Chg <sup>#</sup>	Description:					



				TOLERANCES (EXCEPT AS NOTED)	<div style="text-align: center;">  </div>			WIRING DIAGRAM FOR ARA HEAT AIR COMBO		
				DECIMAL				THE HORTON CO.		
				±	DRAWN BY RN	SCALE	MATERIAL			
				FRACTIONAL	CHK'D.	DATE 6-82	DRAWING NO. 18			
				±	TRACED	APP'D				
ANGULAR				±						
Let.	By	Date	Chg#	Description:						



To Above Fuse Block -  
Splice to Yellow Plug

7

Ford

Chevy/GM

7

To Fuse Block  
"IGN" Tap

Console Plug

Ignition  
Solenoid

To  
Breakers for  
Ignition Circuits

From Power Feed

Let.	By	Date	Chg.#	Description:

TOLERANCES  
(EXCEPT AS NOTED)

DECIMAL

±

FRACTIONAL

±

ANGULAR

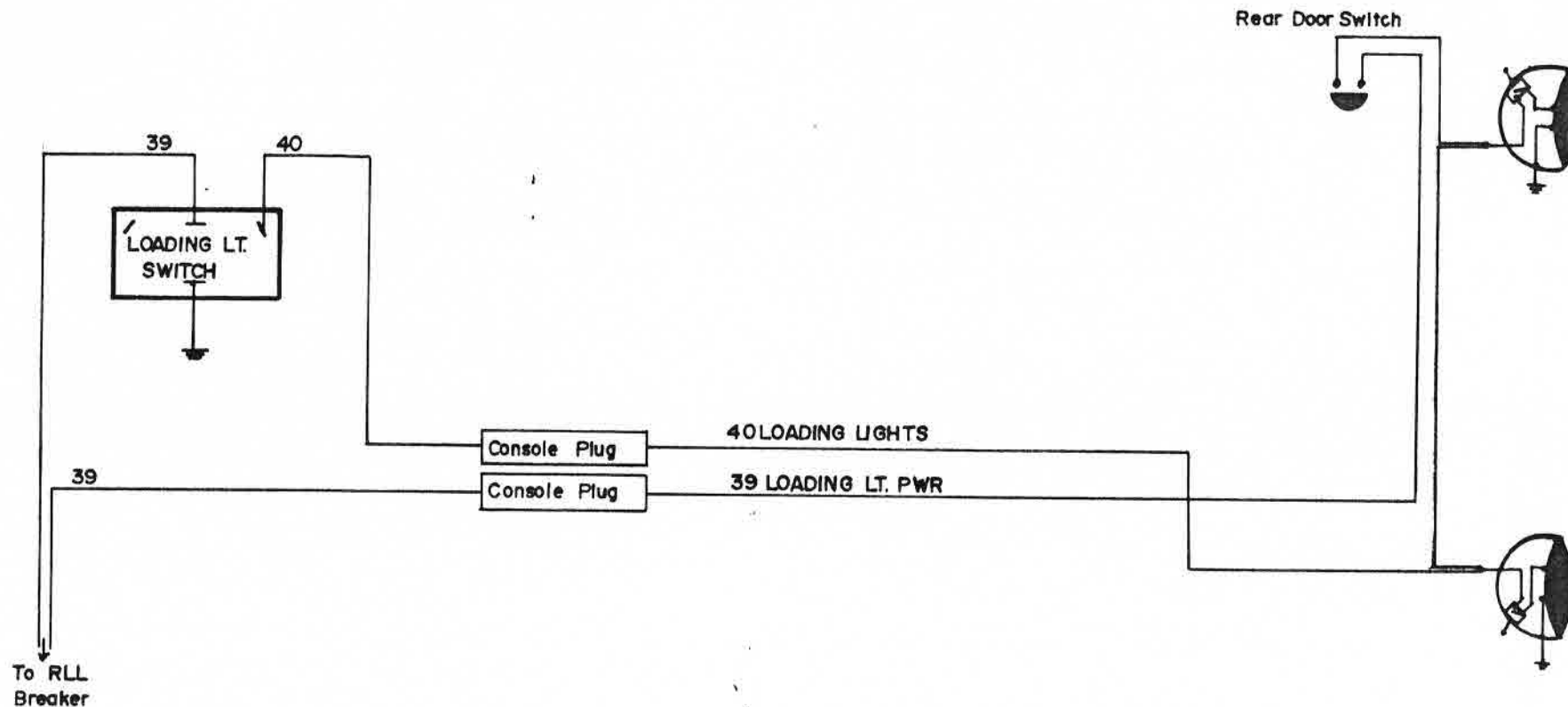
±



IGNITION SOLENOID CIRCUIT

**THE HORTON CO.**

DRAWN BY RN	SCALE	MATERIAL
CHK'D,	DATE 6-82	DRAWING NO.
TRACED	APP'D	19

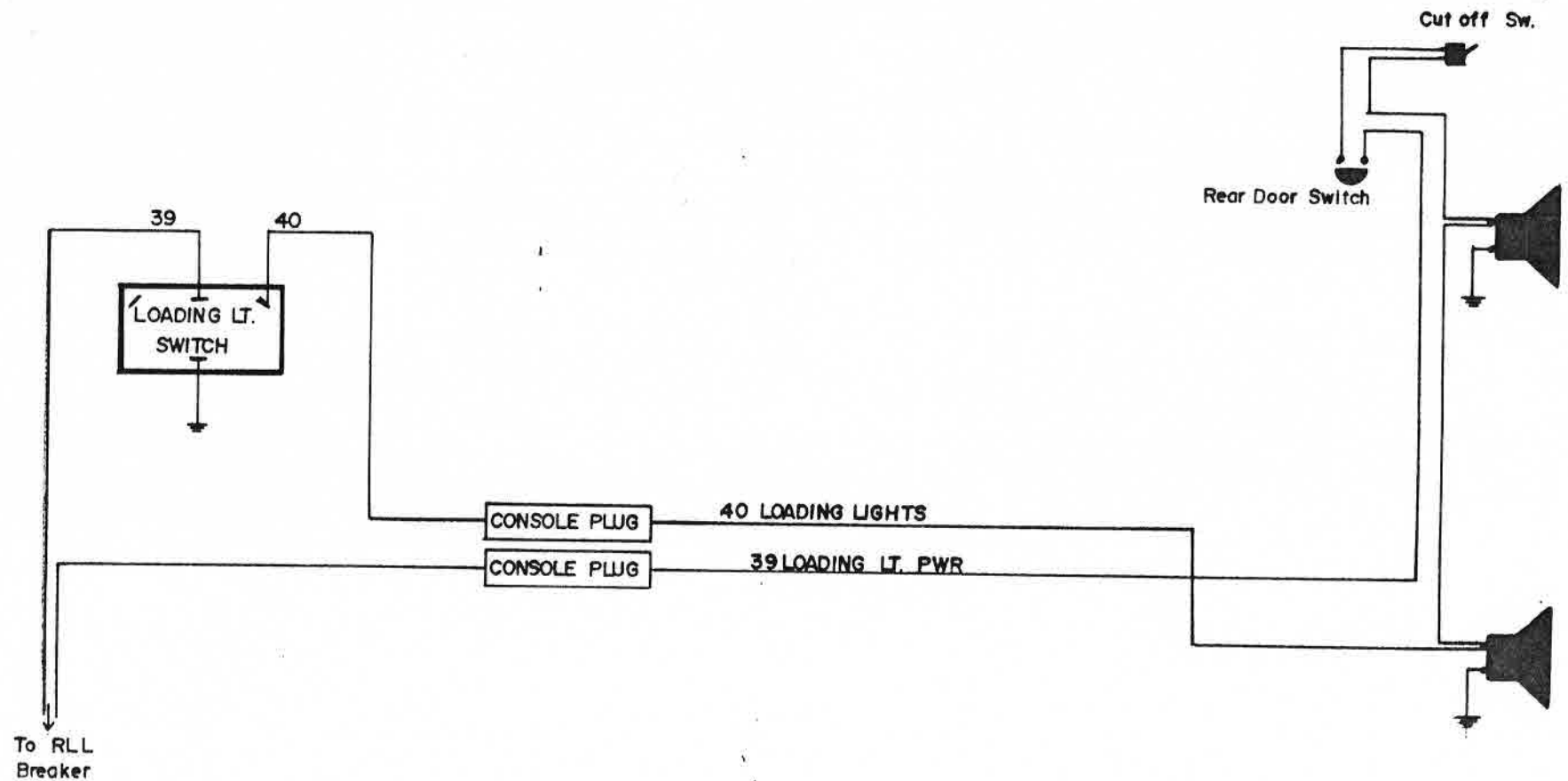


Let.	By	Date	Chg.#	Description:

TOLERANCES (EXCEPT AS NOTED)	
DECIMAL	
±	
FRACTIONAL	
±	
ANGULAR	
±	



LOADING LIGHT CIRCUIT----MODULARS		
<b>THE HORTON CO.</b>		
DRAWN BY <b>RN</b>	SCALE	MATERIAL
CHK'D.	DATE <b>6-82</b>	DRAWING NO.
TRACED	APP'D	<b>120</b>



Let.	By	Date	Chg.#	Description:

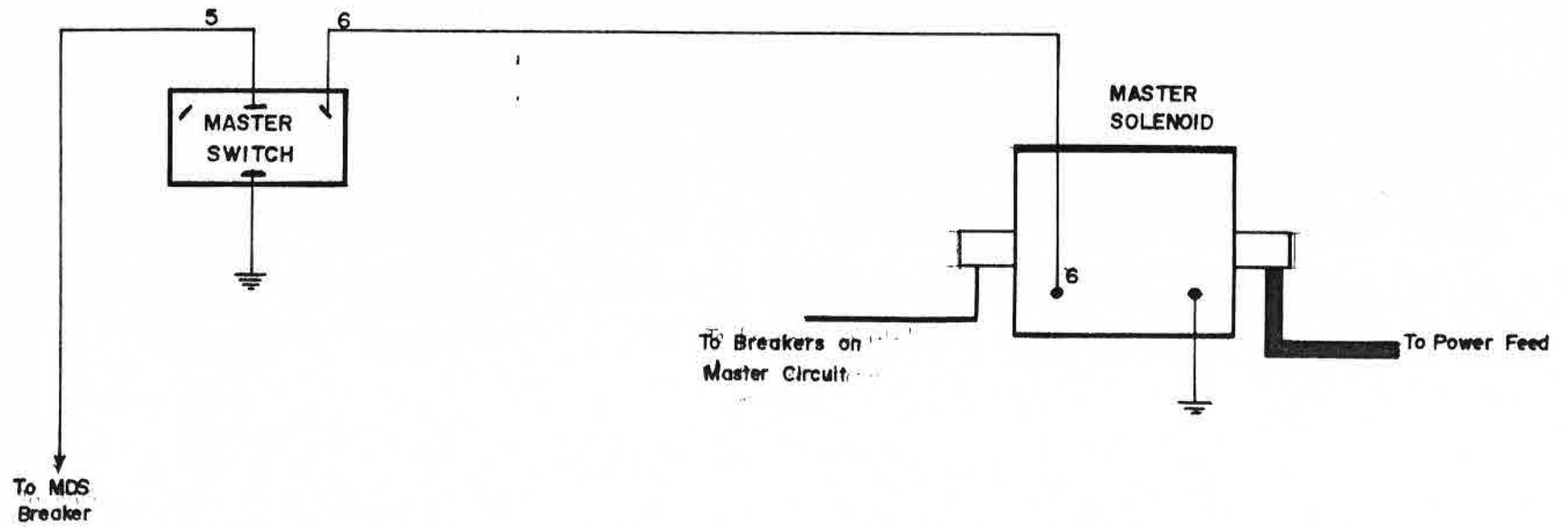
TOLERANCES (EXCEPT AS NOTED)
DECIMAL
±
FRACTIONAL
±
ANGULAR
±




LOADING LIGHT CIRCUIT-----VANS

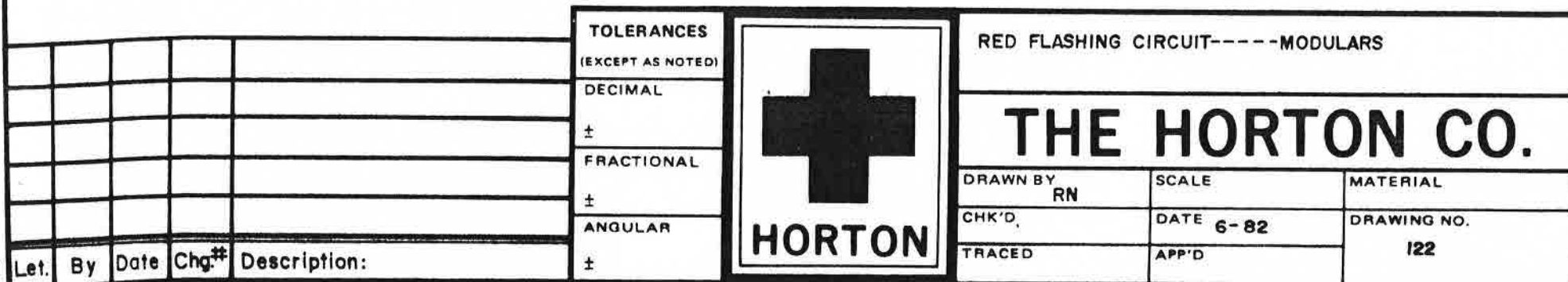
**THE HORTON CO.**

DRAWN BY RN	SCALE	MATERIAL
CHK'D.	DATE 6-82	DRAWING NO.
TRACED	APP'D	020

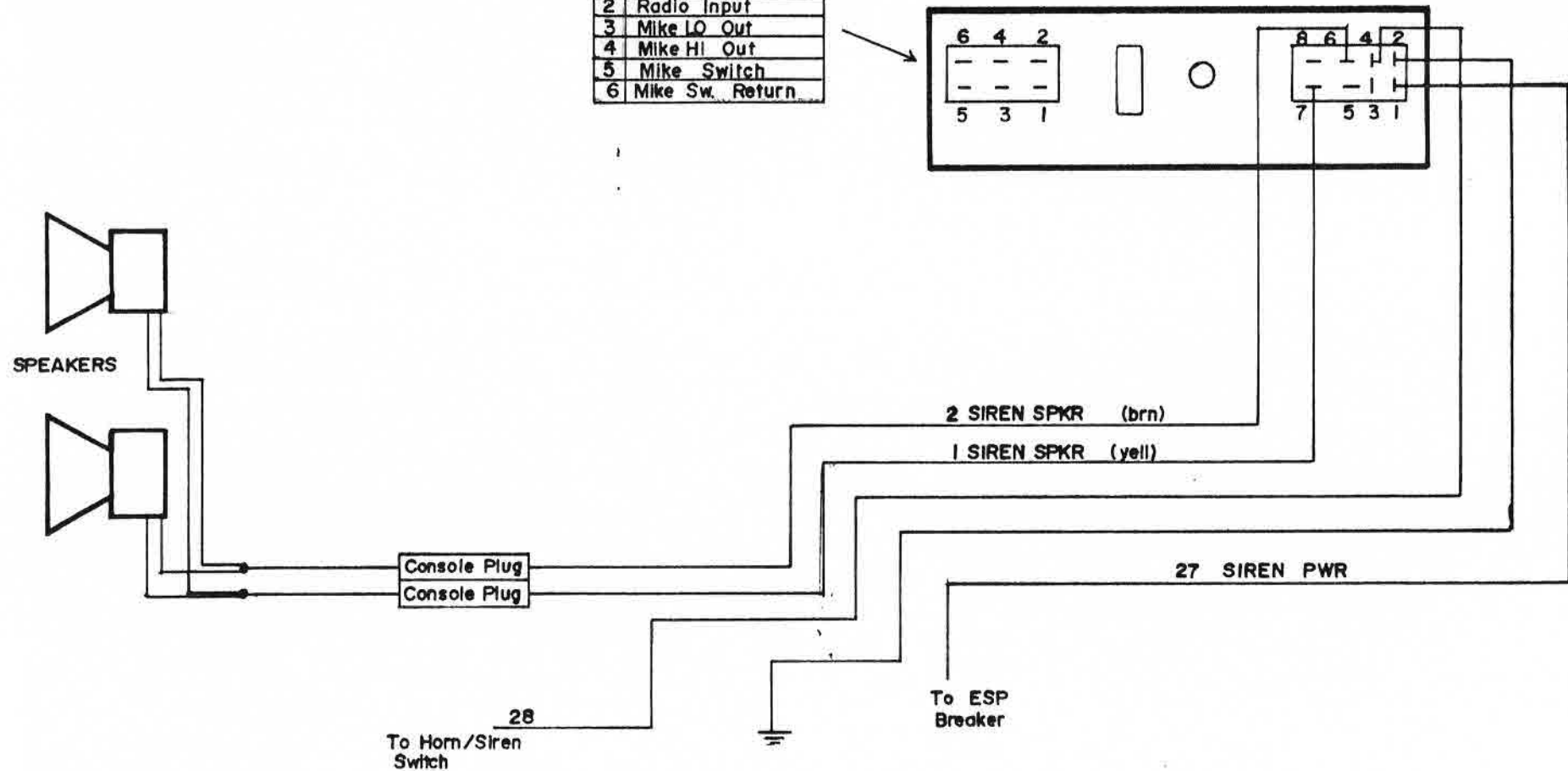


					TOLERANCES (EXCEPT AS NOTED)				MASTER SOLENOID CIRCUIT	
					DECIMAL				<h1>THE HORTON CO.</h1>	
					±					
					FRACTIONAL					
					±		DRAWN BY		SCALE	MATERIAL
					ANGULAR		CHK'D,		DATE 6-82	DRAWING NO.
					±		TRACED		APP'D	21
Let.	By	Date	Chg.#	Description:						

KEY BLUE PRINT CO. N06295



Pin	Function
1	Radio Input
2	Radio Input
3	Mike LO Out
4	Mike HI Out
5	Mike Switch
6	Mike Sw. Return



Let.	By	Date	Chg <sup>#</sup>	Description:

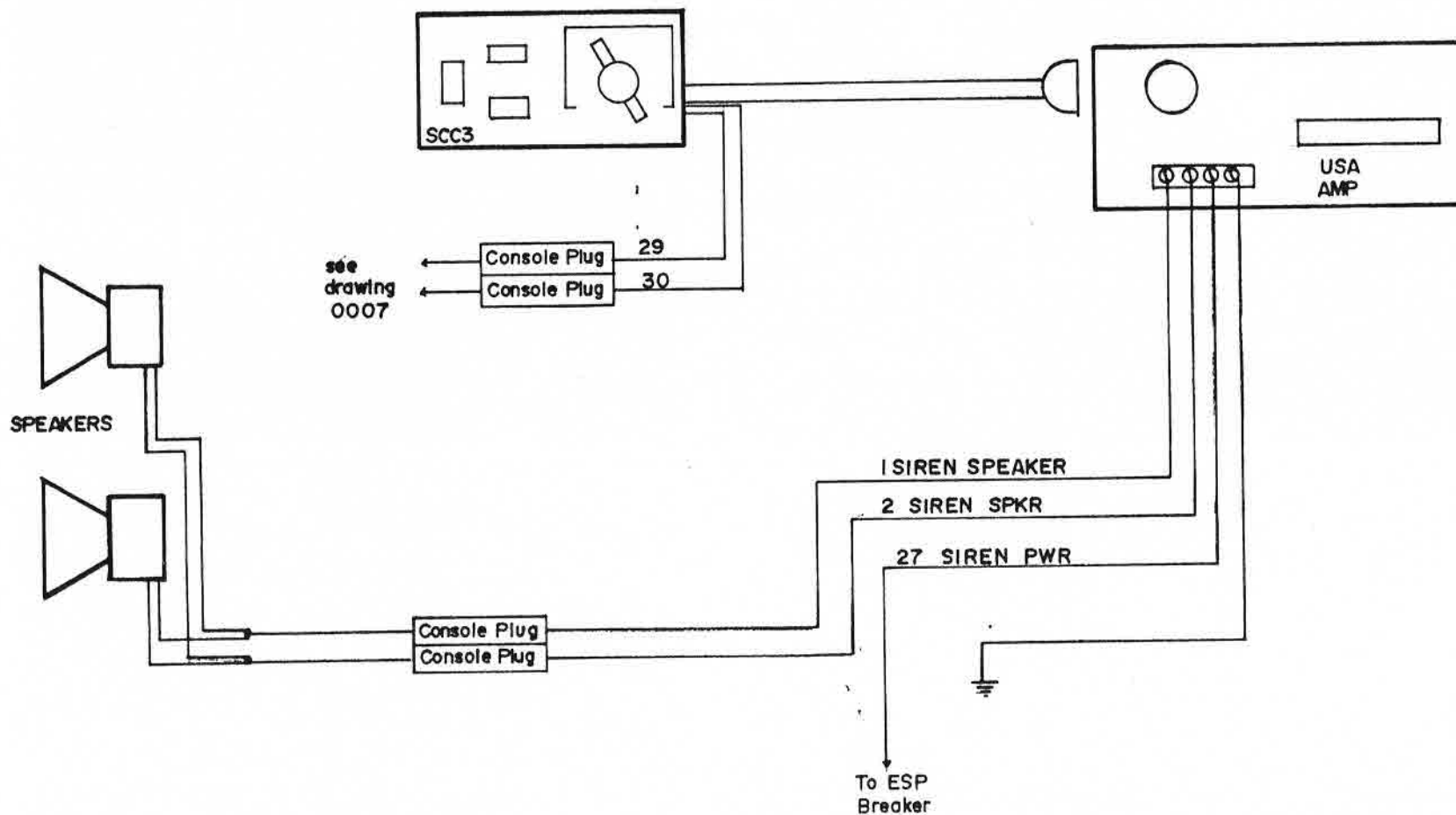
TOLERANCES (EXCEPT AS NOTED)
DECIMAL
±
FRACTIONAL
±
ANGULAR
±




WIRING OF FEDERAL SIRENS-- FA 170 -- FA 200

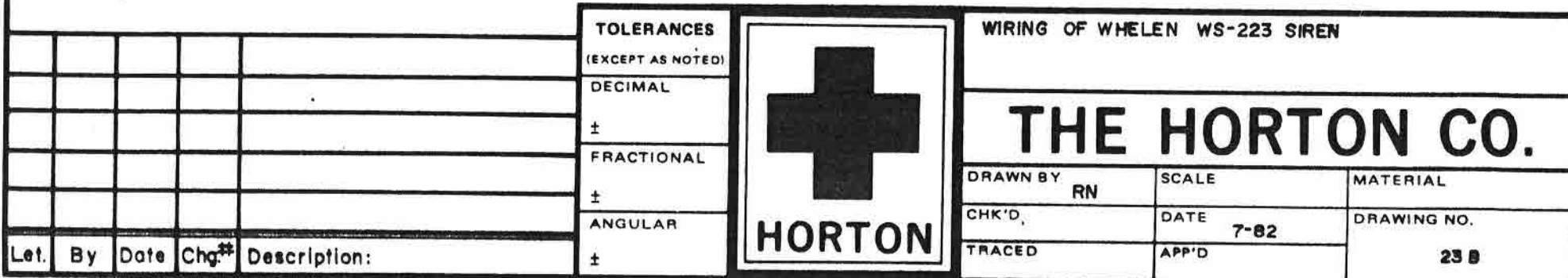
**THE HORTON CO.**

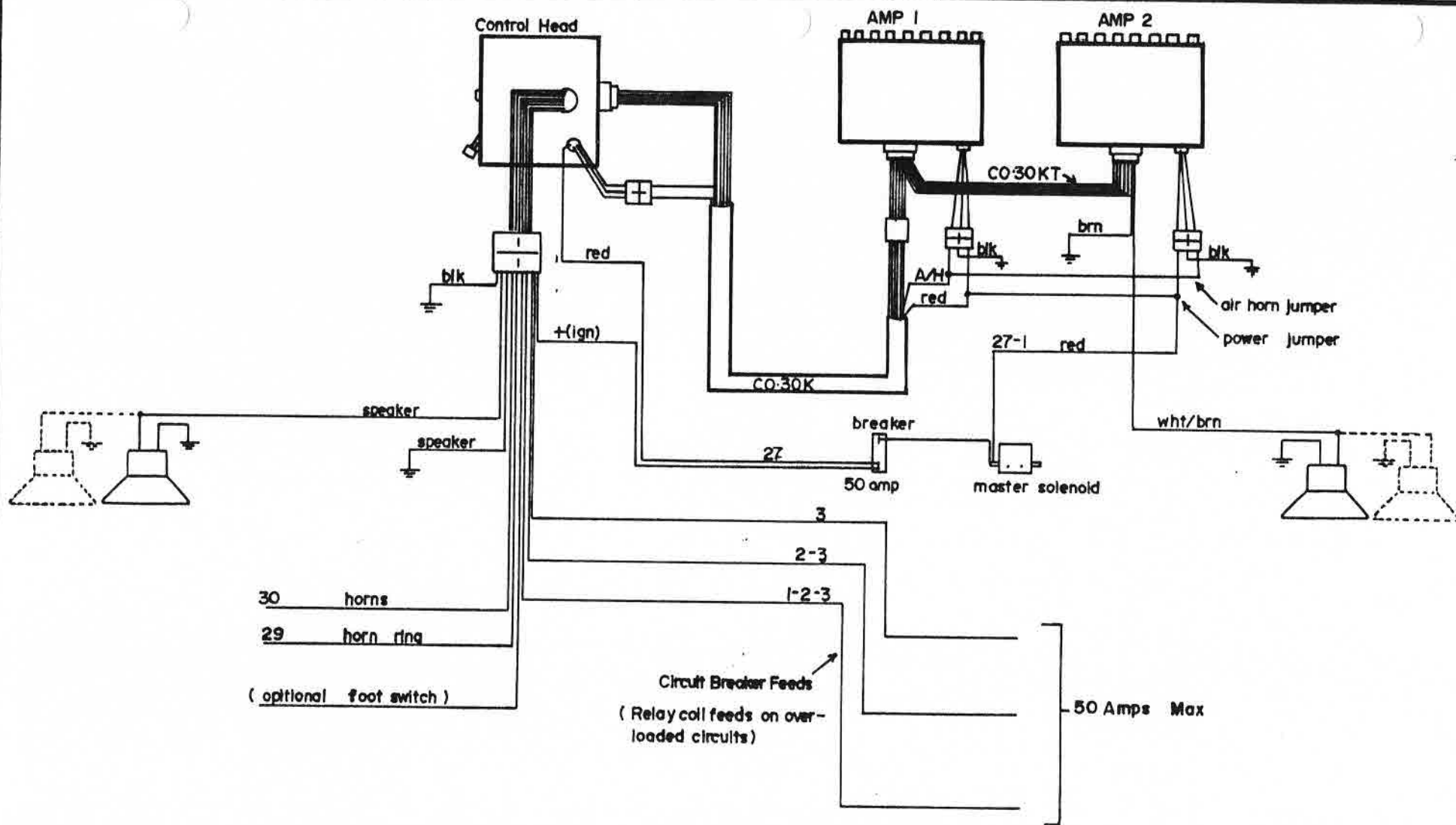
DRAWN BY RN	SCALE	MATERIAL
CHK'D,	DATE 6-82	DRAWING NO.
TRACED	APP'D	23




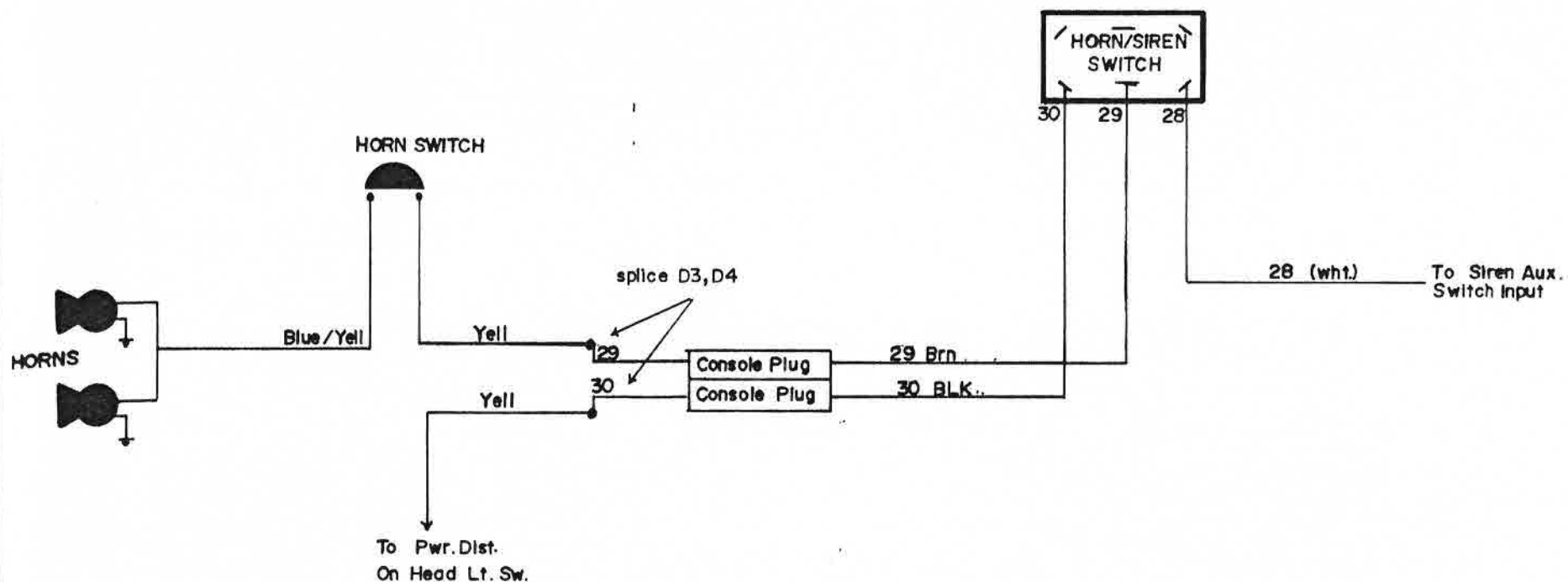
					TOLERANCES (EXCEPT AS NOTED)		WIRING OF FEDERAL MINI-COM			
					DECIMAL					
					±					
					FRACTIONAL					
					±					
					ANGULAR					
					±					
Let.	By	Date	Chg.#	Description:			<b>THE HORTON CO.</b>			
							DRAWN BY RN		SCALE	MATERIAL
							CHK'D.		DATE 6-82	DRAWING NO.
					TRACED		APP'D	23-A		







				TOLERANCES (EXCEPT AS NOTED)				WIRING OF UNITROL 480K SIREN-WITH DUAL AMPLIFIERS ( for single Amplifier delete Amp2, CO30KT, and Jumpers )	
				DECIMAL				<h1>THE HORTON CO.</h1>	
				±					
				FRACTIONAL					
				±					
				ANGULAR		DRAWN BY RN.		SCALE	MATERIAL
				±		CHK'D		DATE 4-83	DRAWING NO.
						TRACED		APP'D	52
Let.	By	Date	Chg**	Description:					



Chassis Splice D3,D4 are near steering column plug

Let.	By	Date	Chg.#	Description:

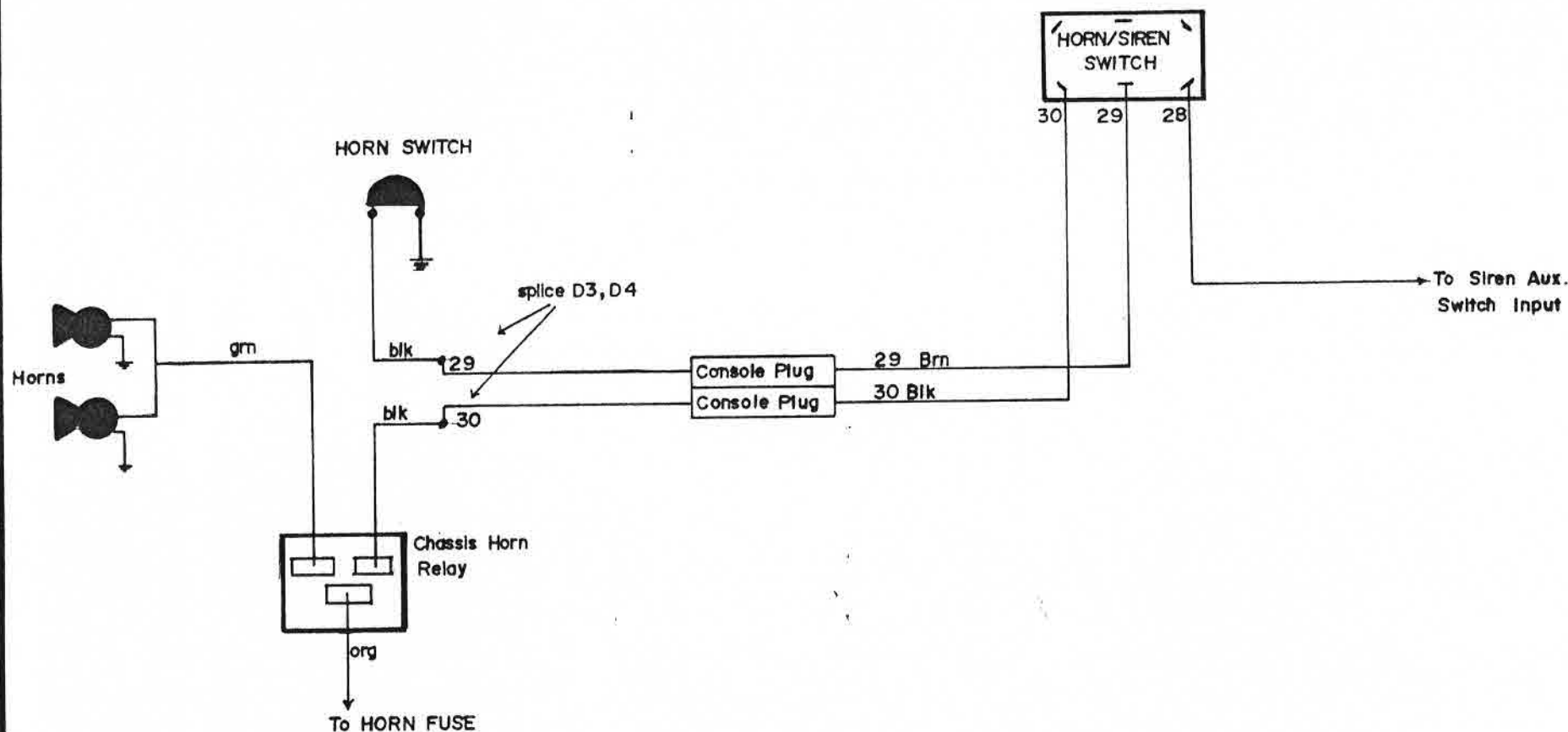
TOLERANCES (EXCEPT AS NOTED)
DECIMAL
±
FRACTIONAL
±
ANGULAR
±



HORN/SIREN SWITCH WIRING ON FORD VEHICLES

# THE HORTON CO.

DRAWN BY R.N.	SCALE	MATERIAL
CHK'D,	DATE 6-82	DRAWING NO. 07:B
TRACED	APP'D	



Chassis Splice D3, D4 are near steering column plug

Let.	By	Date	Chg. #	Description:

TOLERANCES (EXCEPT AS NOTED)
DECIMAL
±
FRACTIONAL
±
ANGULAR
±



HORN/SIREN SWITCH WIRING ON CHEVY/GM VEHICLES

**THE HORTON CO.**

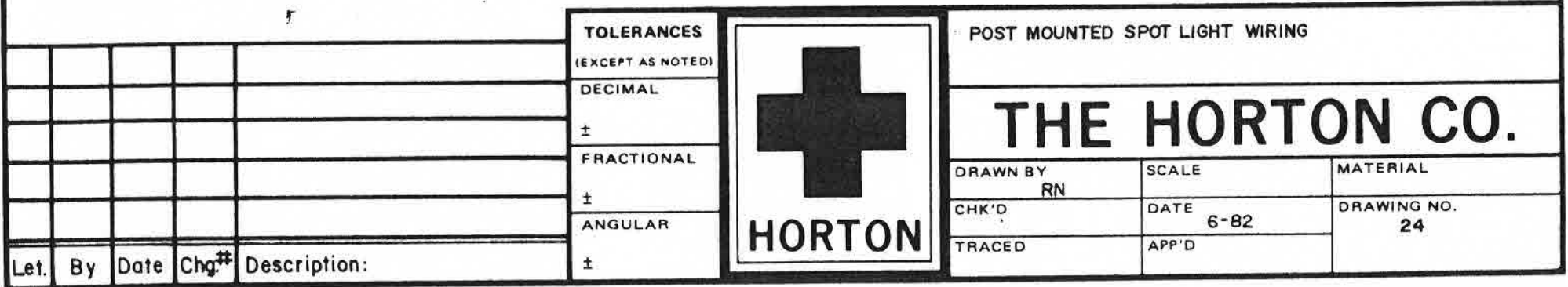
DRAWN BY RN	SCALE	MATERIAL
CHK'D.	DATE 6-82	DRAWING NO.
TRACED	APP'D	07-C

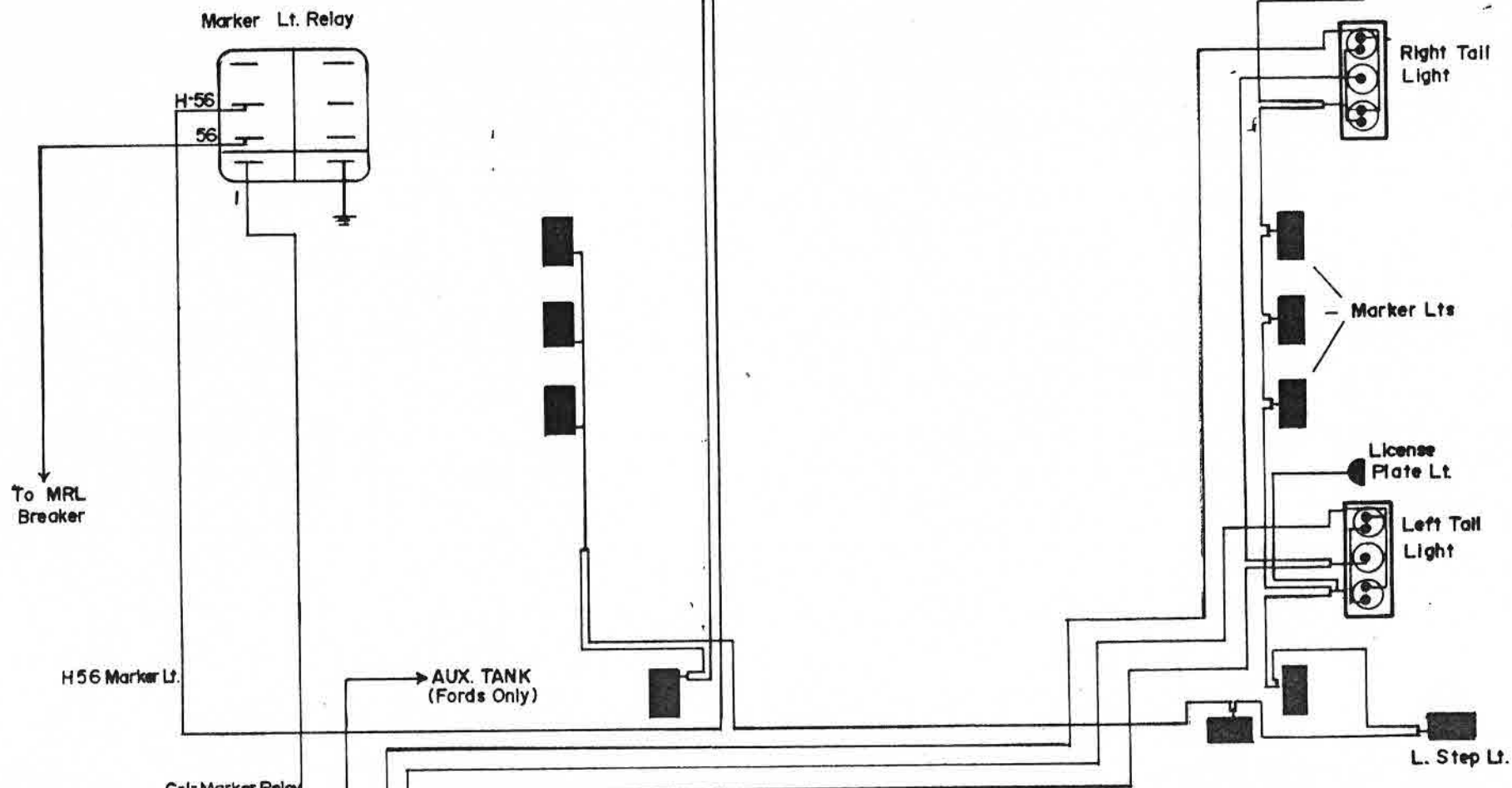


TOLERANCES	
(EXCEPT AS NOTED)	
DECIMAL	$\pm$
FRACTIONAL	$\pm$
ANGULAR	$\pm$



DRAWN BY R. N.	SCALE	MATERIAL
CHK'D	DATE 6-82	DRAWING NO. F-30-0007
TRACED	APP'L	





WIRING OF TAIL LT. AND MARKER LT. SYSTEM ---- MODULARS

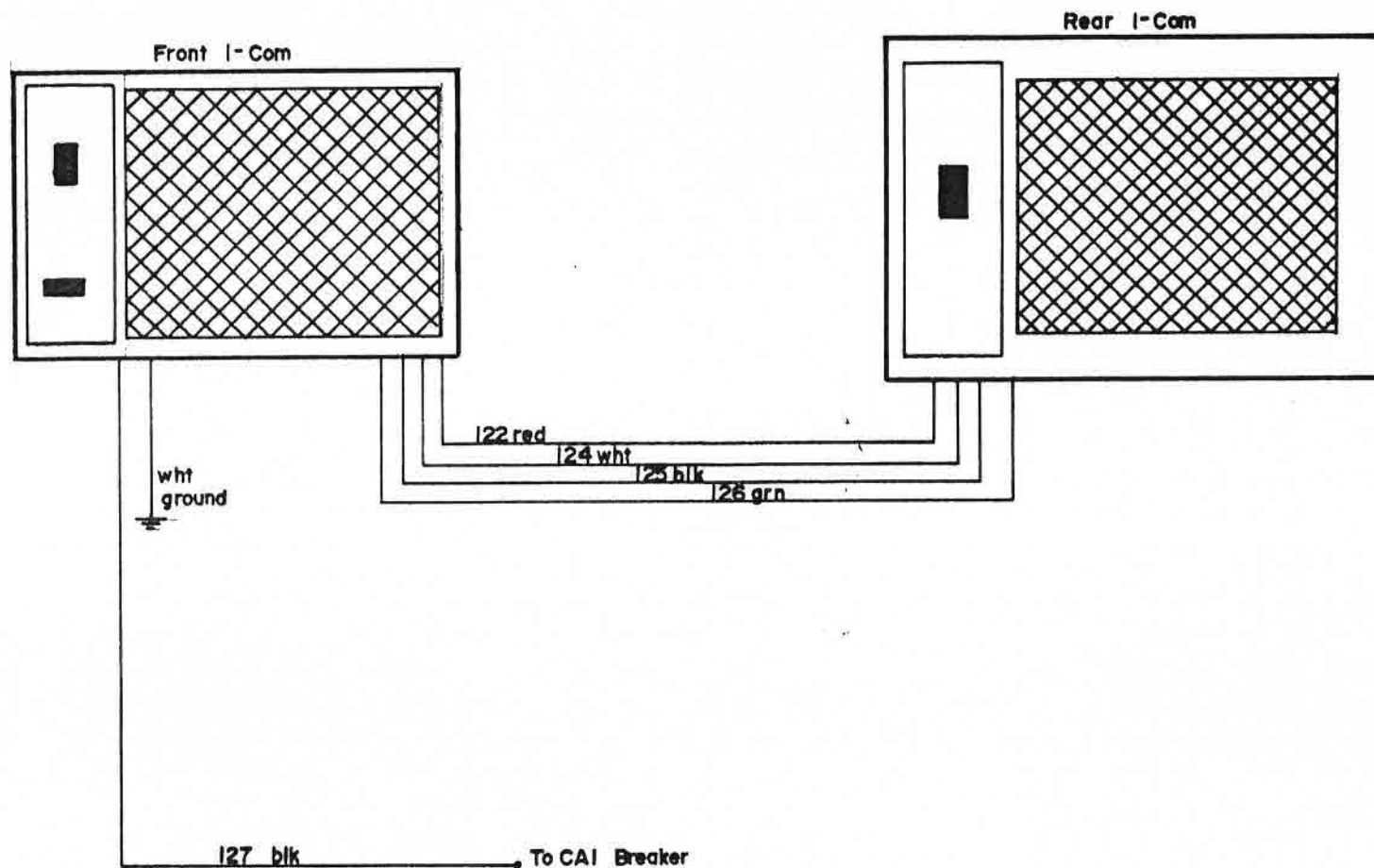


**THE HORTON CO.**

DRAWN BY RN	SCALE	MATERIAL
CHK'D	DATE 6-82	DRAWING NO. 125
TRACED	APP'D	

Let.	By	Date	Chg#	Description:

54



Let.	By	Date	Chg.#	Description:

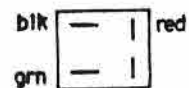
TOLERANCES (EXCEPT AS NOTED)
DECIMAL
±
FRACTIONAL
±
ANGULAR
±



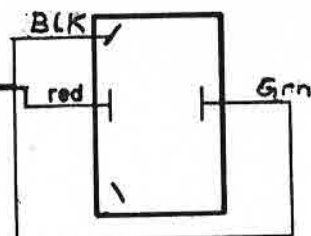
WIRING OF INTERCOM SYSTEM		
THE HORTON CO.		
DRAWN BY R.N.	SCALE	MATERIAL
CHK'D	DATE 7-82	DRAWING NO.
TRACED	APP'D	30



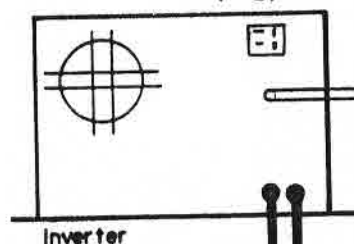
(To test, jump red and blk)



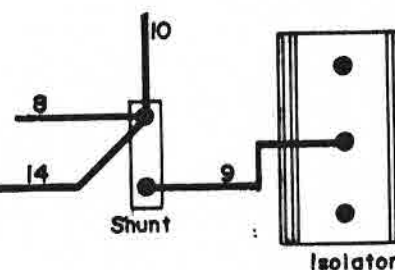
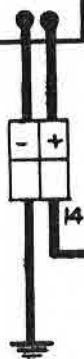
Remote Switch



SEE PAGE 58



110V In  
To auto transfer



TOLERANCES

(EXCEPT AS NOTED)

DECIMAL

±

FRACTIONAL

±

ANGULAR

±



HORTON

WIRING OF VANNER INVERTER

THE HORTON CO.

DRAWN BY  
RN

SCALE

MATERIAL

CHK'D

DATE  
7-82

DRAWING NO.

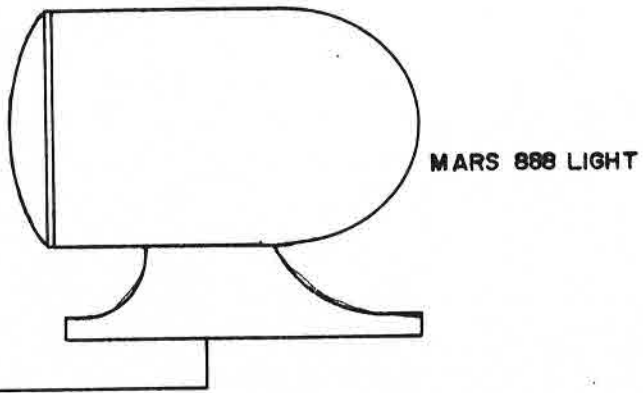
TRACED

APP'D

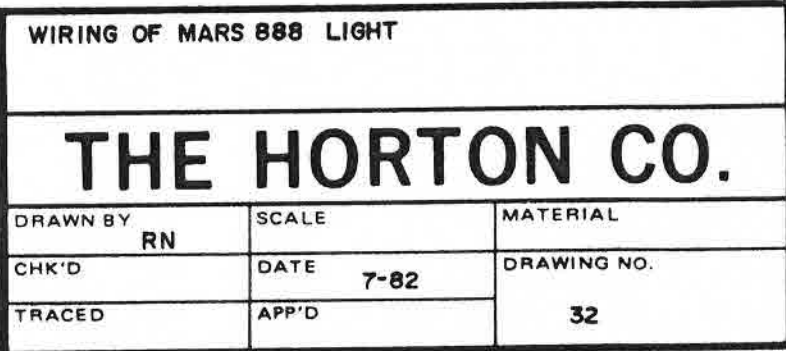
31

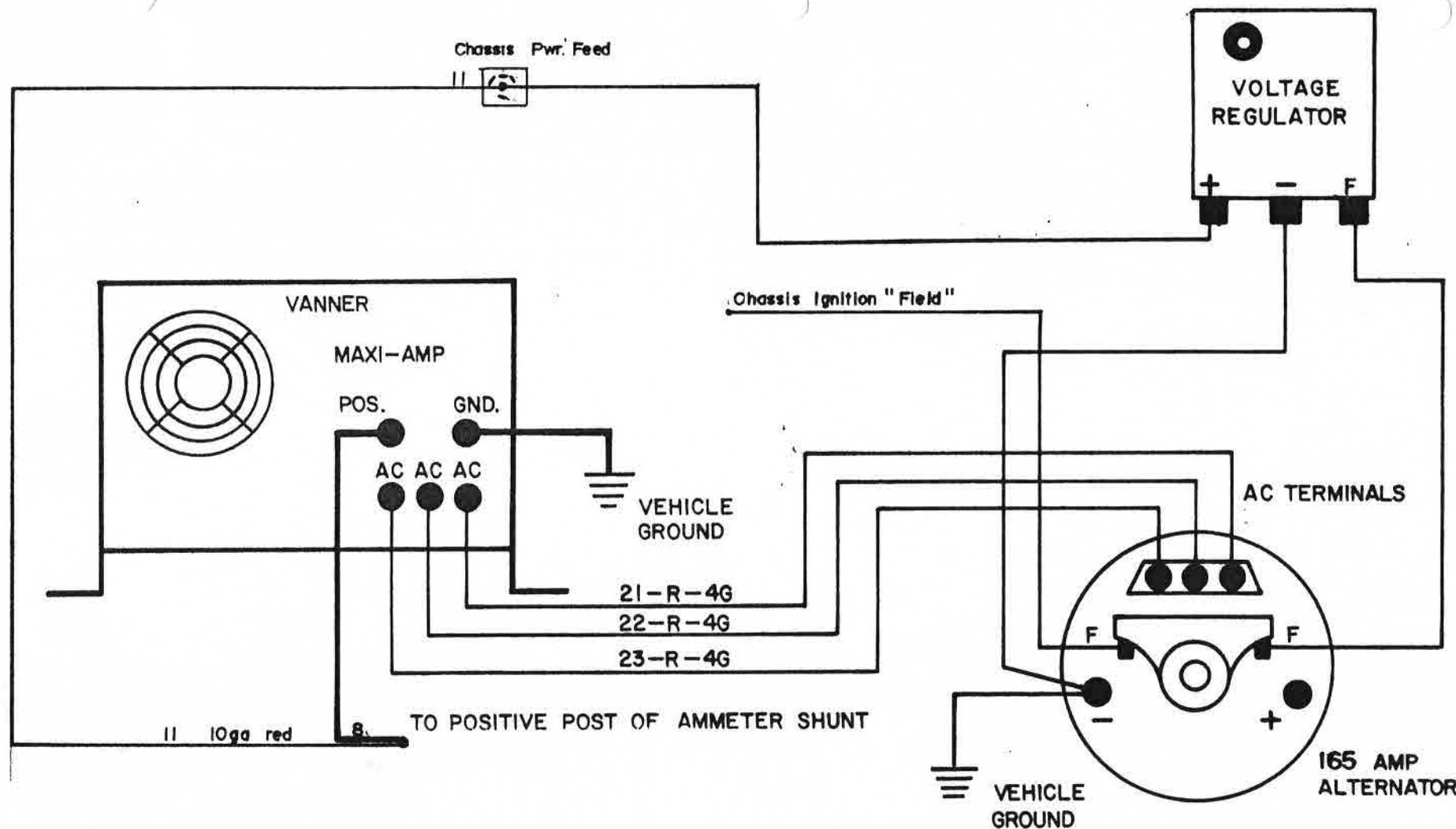
64

Let. By Date Chg# Description:



TOLERANCES	
(EXCEPT AS NOTED)	
DECIMAL	$\pm$
FRACTIONAL	$\pm$
ANGULAR	$\pm$





TOLERANCES  
(EXCEPT AS NOTED)

DECIMAL

±

FRACTIONAL

±

ANGULAR

±



HORTON

WIRING DIAGRAM 165 AMP ALTERNATOR  
WITH A 200 AMP MAXI-AMP POWER BOOSTER

THE HORTON CO.

DRAWN BY  
R. GLASSBURN

CHK'D

TRACED

SCALE

DATE 8/19/80

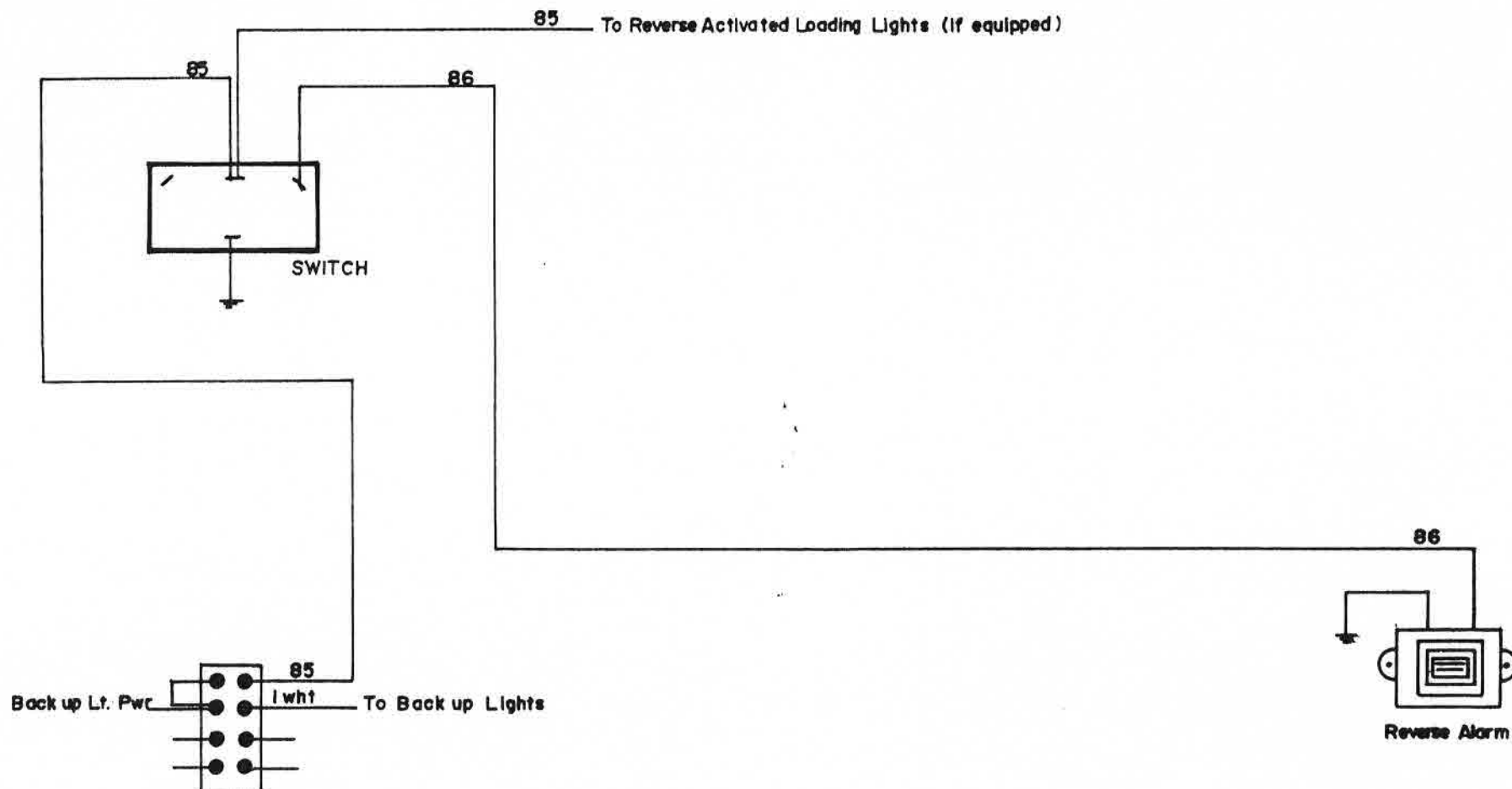
APP'D

MATERIAL

DRAWING NO.

32





#### TOLERANCES

(EXCEPT AS NOTED)

DECIMAL

±

FRACTIONAL

±

ANGULAR

±



**HORTON**

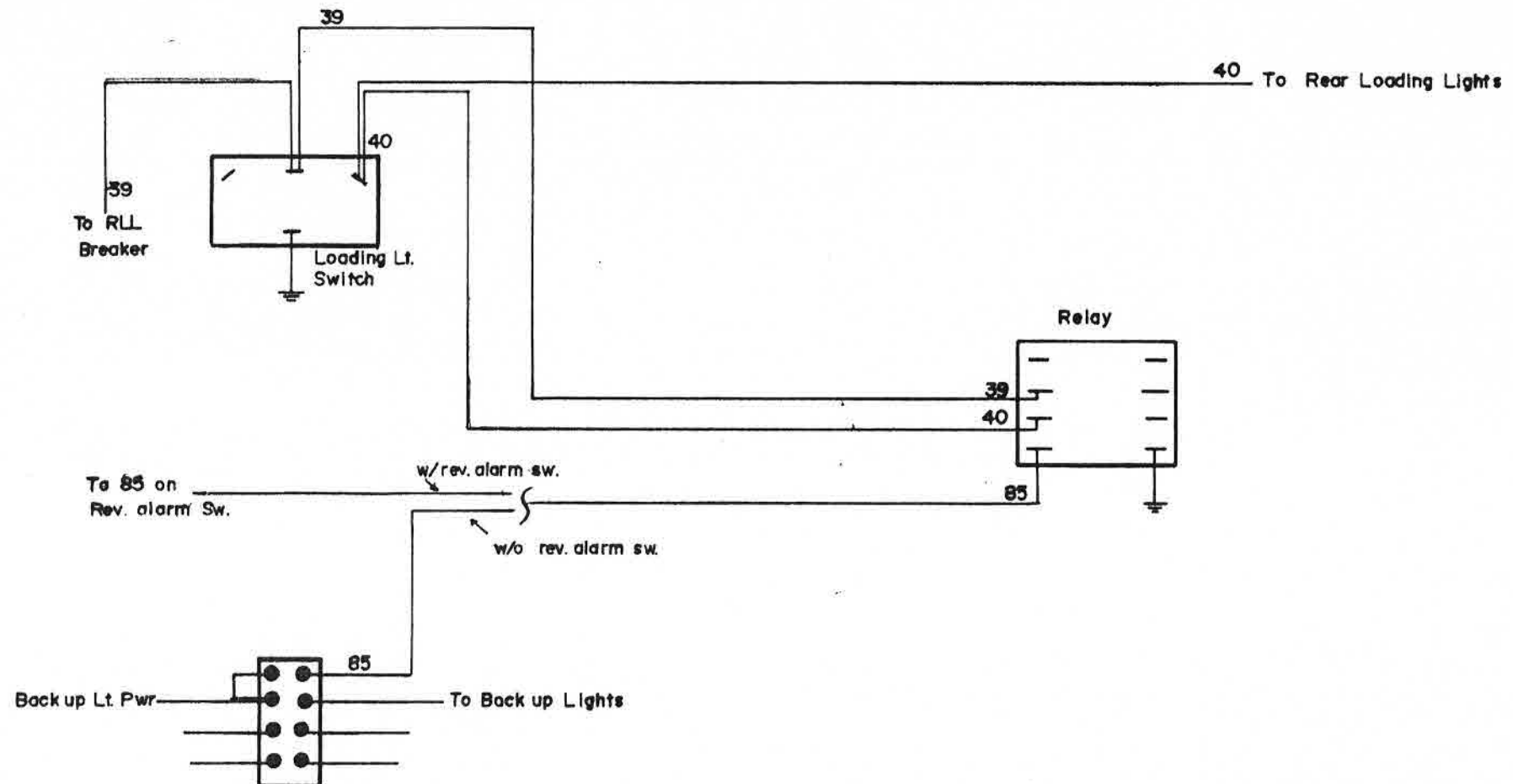
Wiring of Reverse Alarm w/cutoff switch

**THE HORTON CO.**

DRAWN BY <b>RN</b>	SCALE	MATERIAL
CHK'D	DATE <b>7-82</b>	DRAWING NO.
TRACED	APP'D	<b>35</b>

69

Let. By Date Chg.# Description:



Let.	By	Date	Chg.#	Description:

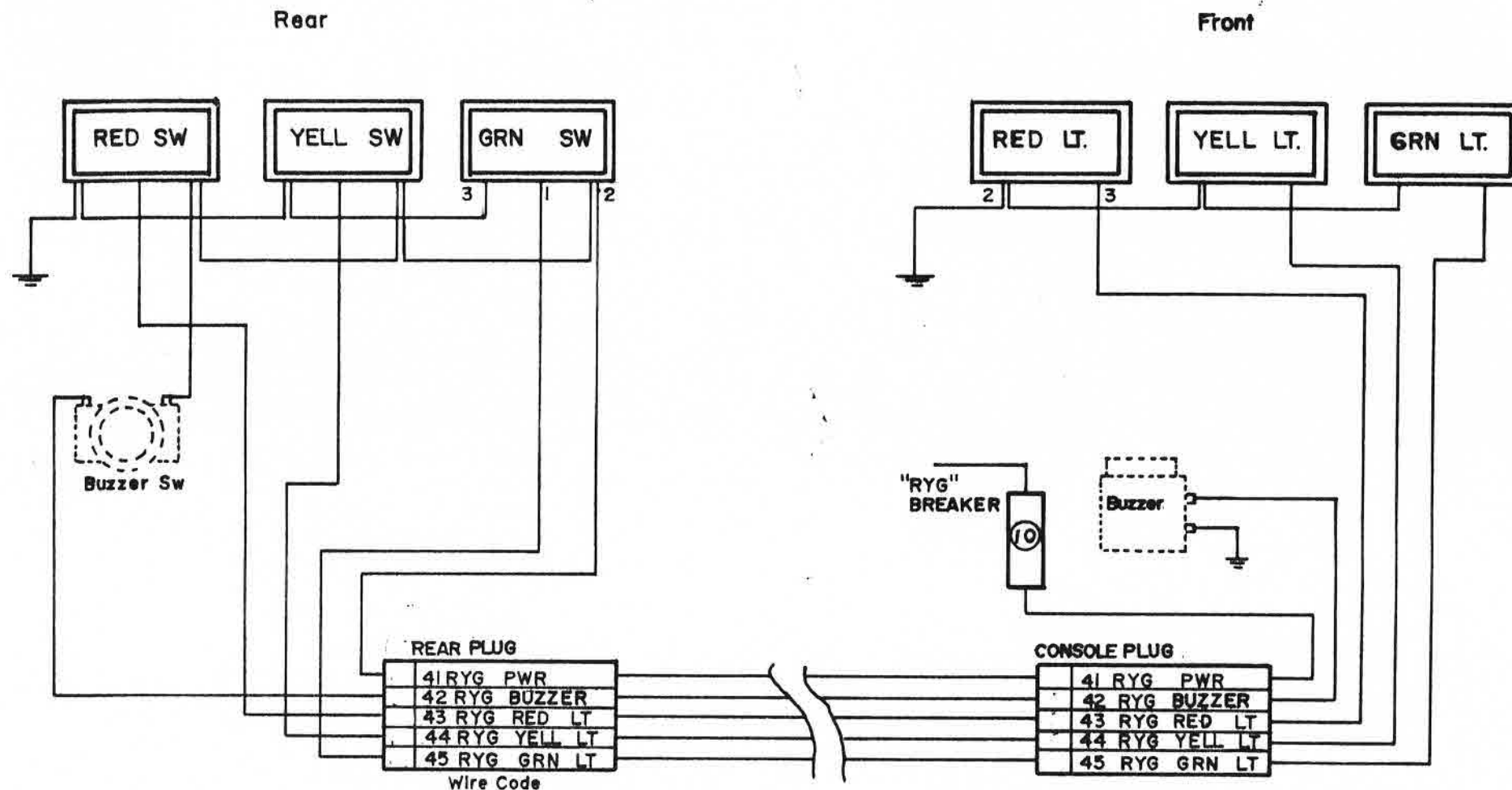
<b>TOLERANCES</b> (EXCEPT AS NOTED)
<b>DECIMAL</b> ±
<b>FRACTIONAL</b> ±
<b>ANGULAR</b> ±



### Wiring of Reverse Activated Loading Lights

# THE HORTON CO.

DRAWN BY <b>R.N.</b>	SCALE	MATERIAL
CHK'D	DATE <b>7-82</b>	DRAWING NO.
TRACED	APP'D	<b>36</b>



Let.	By	Date	Chg.#	Description:

TOLERANCES
(EXCEPT AS NOTED)
DECIMAL
±
FRACTIONAL
±
ANGULAR
±

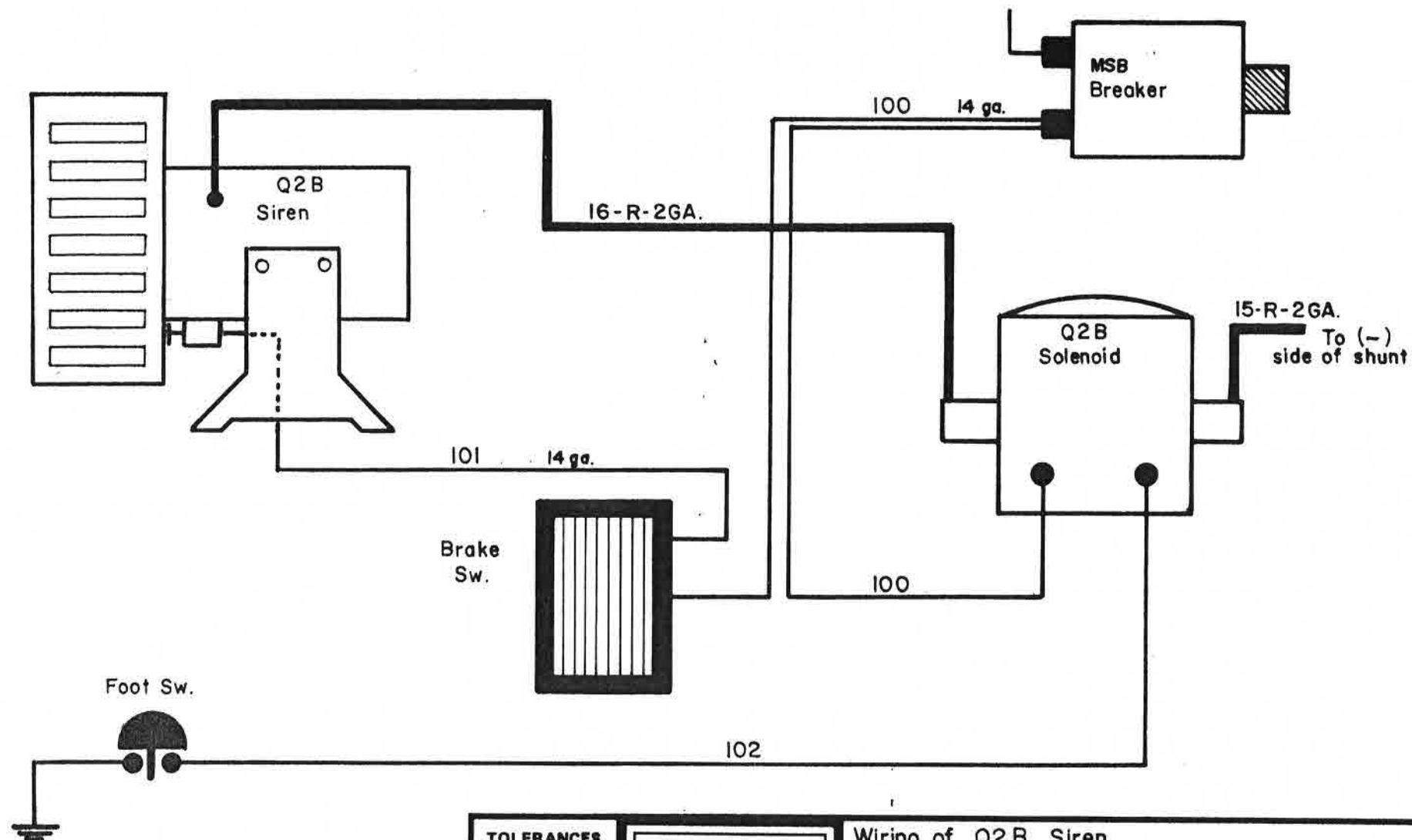


OPTION - PATIENT WARNING SYSTEM

RYG ----- RYG WITH BUZZER

# THE HORTON CO.

DRAWN BY R. NASH	SCALE	MATERIAL
CHK'D	DATE 4-82	DRAWING NO.
TRACED	APP'D	04.



**TOLERANCES**  
(EXCEPT AS NOTED)

DECIMAL

±

FRACTIONAL

±

ANGULAR

±



Wiring of Q2B Siren

**THE HORTON CO.**

DRAWN BY  
RN

SCALE

MATERIAL

CHK'D

DATE 7-82

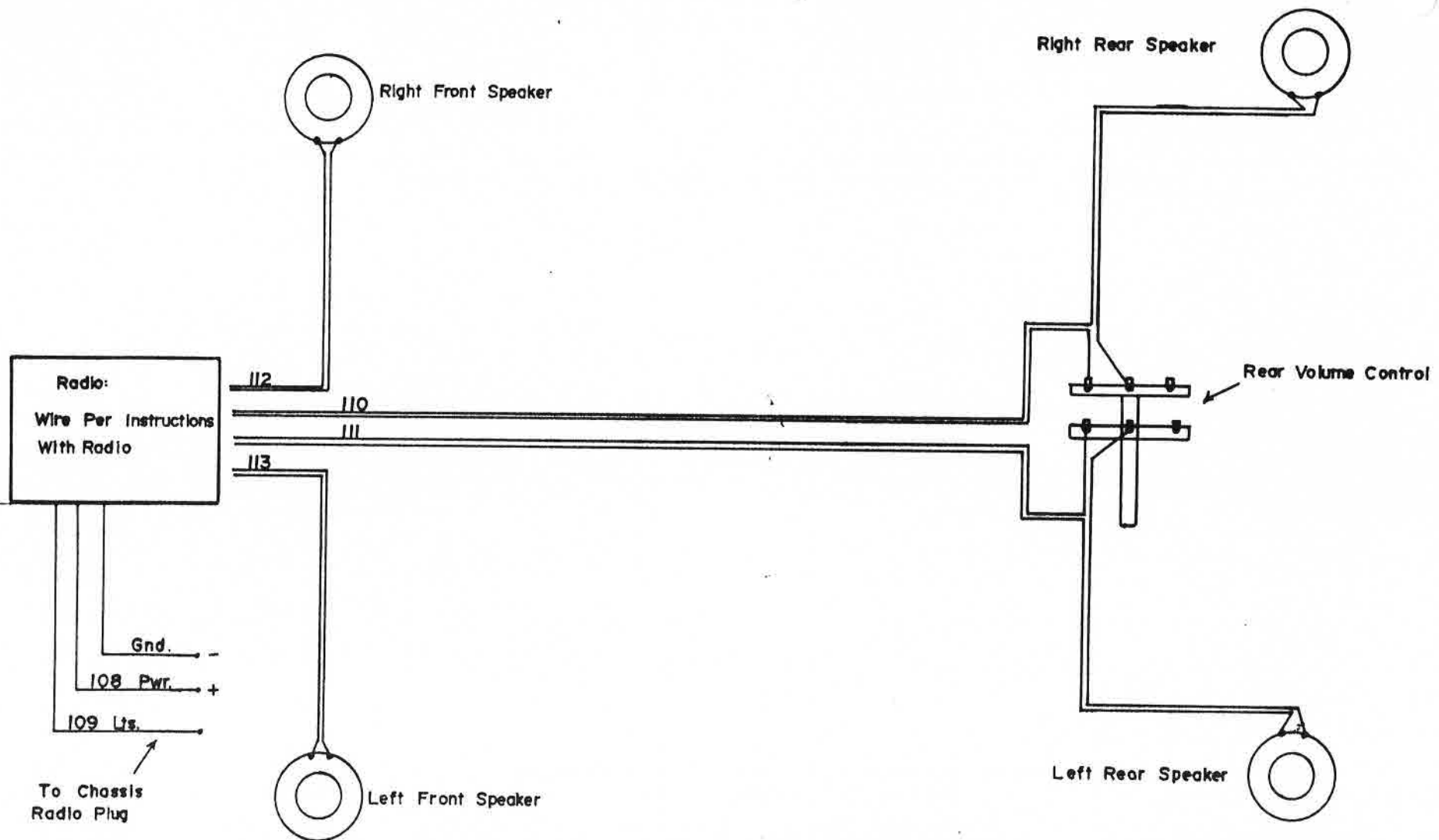
DRAWING NO.

TRACED

APP'D

37





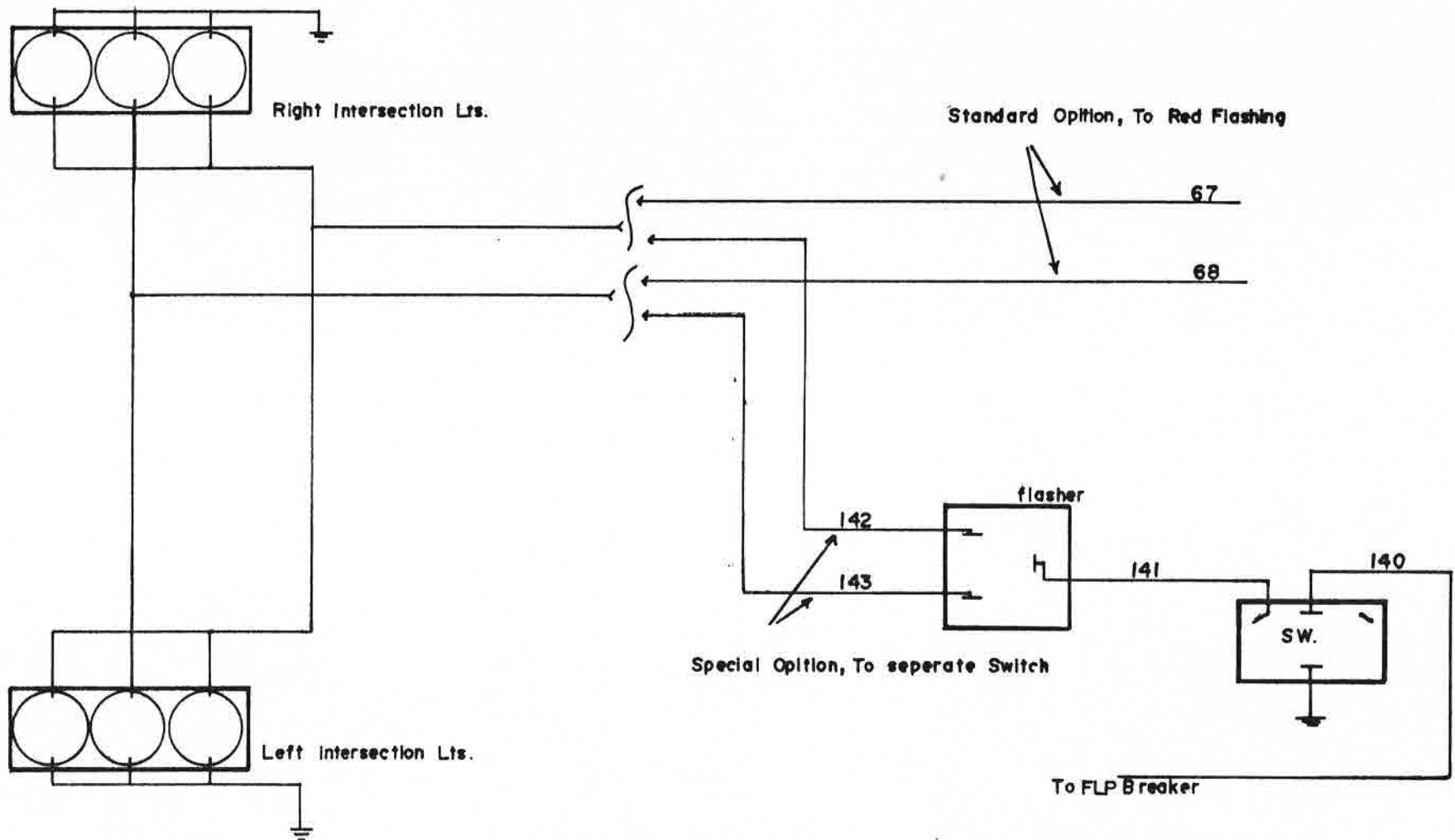
					TOLERANCES (EXCEPT AS NOTED)
					DECIMAL
					±
					FRACTIONAL
					±
					ANGULAR
					±
Let.	By	Date	Chg.#	Description:	




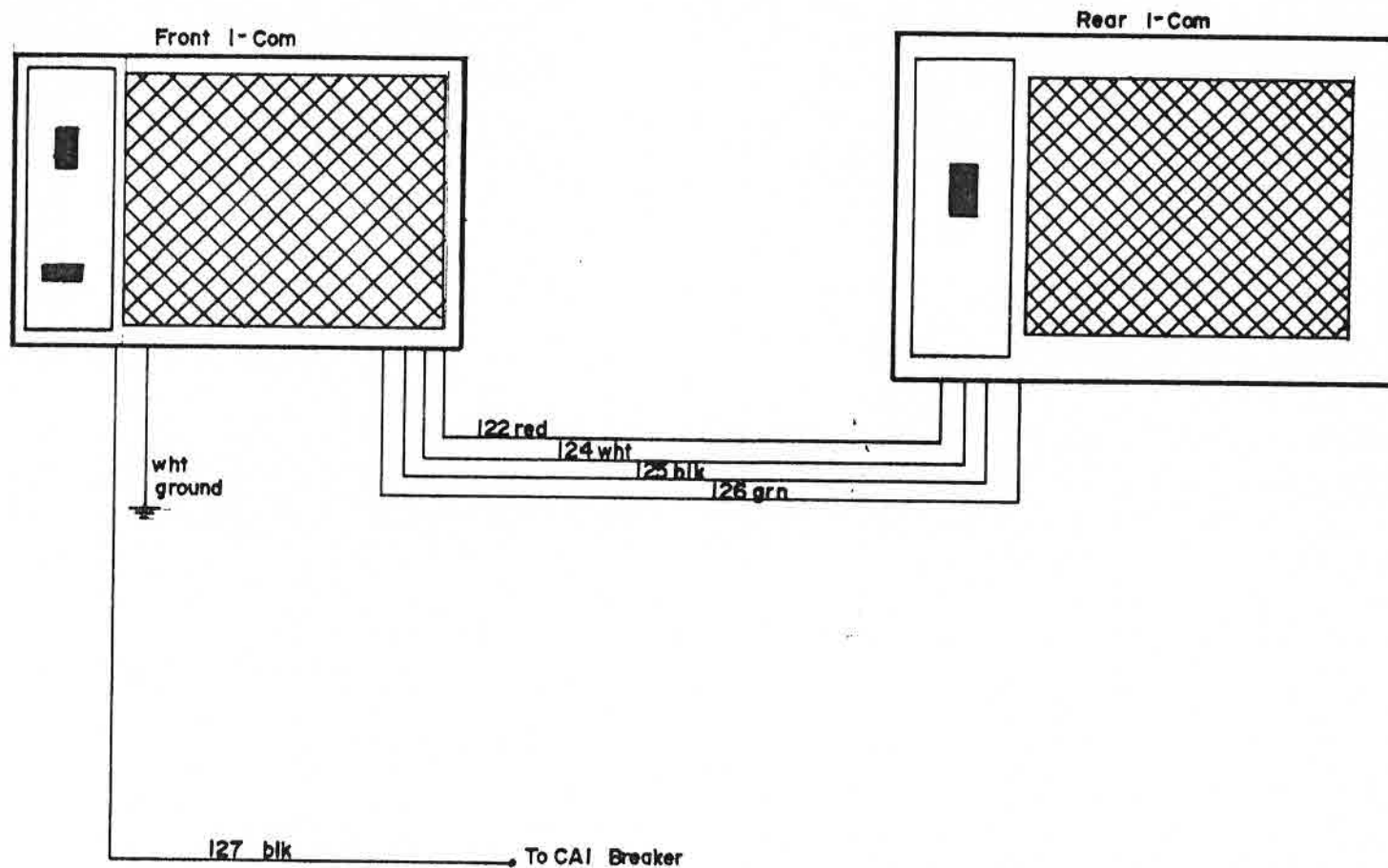
WIRING OF AM/FM RADIO- shown with rear speakers  
(For non-stereo use right side wiring)

**THE HORTON CO.**

DRAWN BY RN	SCALE	MATERIAL
CHK'D	DATE 1-83	DRAWING NO.
TRACED	APP'D	39



					<b>TOLERANCES</b> (EXCEPT AS NOTED)	<b>WIRING OF INTERSECTION LIGHTS</b>										
					DECIMAL	<div style="text-align: center;">  </div>										
					±											
					FRACTIONAL											
					±				ANGULAR	<div style="text-align: center;"> <h1 style="margin: 0;">THE HORTON CO.</h1> </div>						
±																
±																
Let.	By	Date	Chg. #	Description:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">DRAWN BY RN</td> <td style="width: 33%;">SCALE</td> <td style="width: 33%;">MATERIAL</td> </tr> <tr> <td>CHK'D</td> <td>DATE 1-83</td> <td rowspan="2">DRAWING NO. 41</td> </tr> <tr> <td>TRACED</td> <td>APP'D</td> </tr> </table>				DRAWN BY RN	SCALE	MATERIAL	CHK'D	DATE 1-83	DRAWING NO. 41	TRACED	APP'D
DRAWN BY RN	SCALE	MATERIAL														
CHK'D	DATE 1-83	DRAWING NO. 41														
TRACED	APP'D															



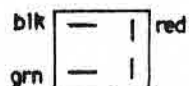
Let.	By	Date	Chg.#	Description:

TOLERANCES (EXCEPT AS NOTED)	
DECIMAL	±
FRACTIONAL	±
ANGULAR	±

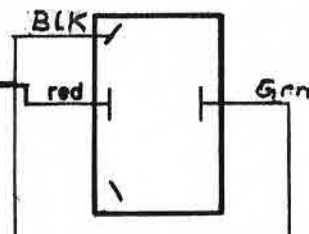


WIRING OF INTERCOM SYSTEM		
<b>THE HORTON CO.</b>		
DRAWN BY RN.	SCALE	MATERIAL
CHK'D	DATE 7-82	DRAWING NO.
TRACED	APP'D	30

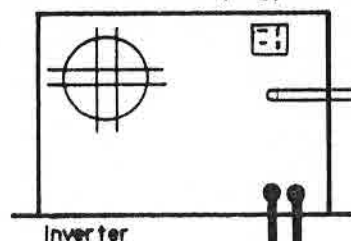
(To test, jump red and blk)



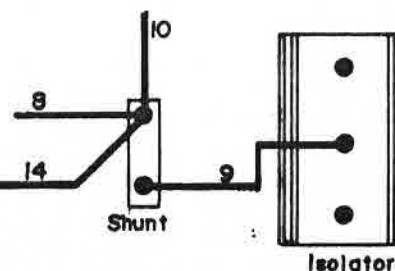
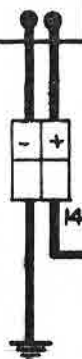
Remote Switch



SEE PAGE 58



110V In  
To auto transfer



TOLERANCES  
(EXCEPT AS NOTED)

DECIMAL

±

FRACTIONAL

±

ANGULAR

±

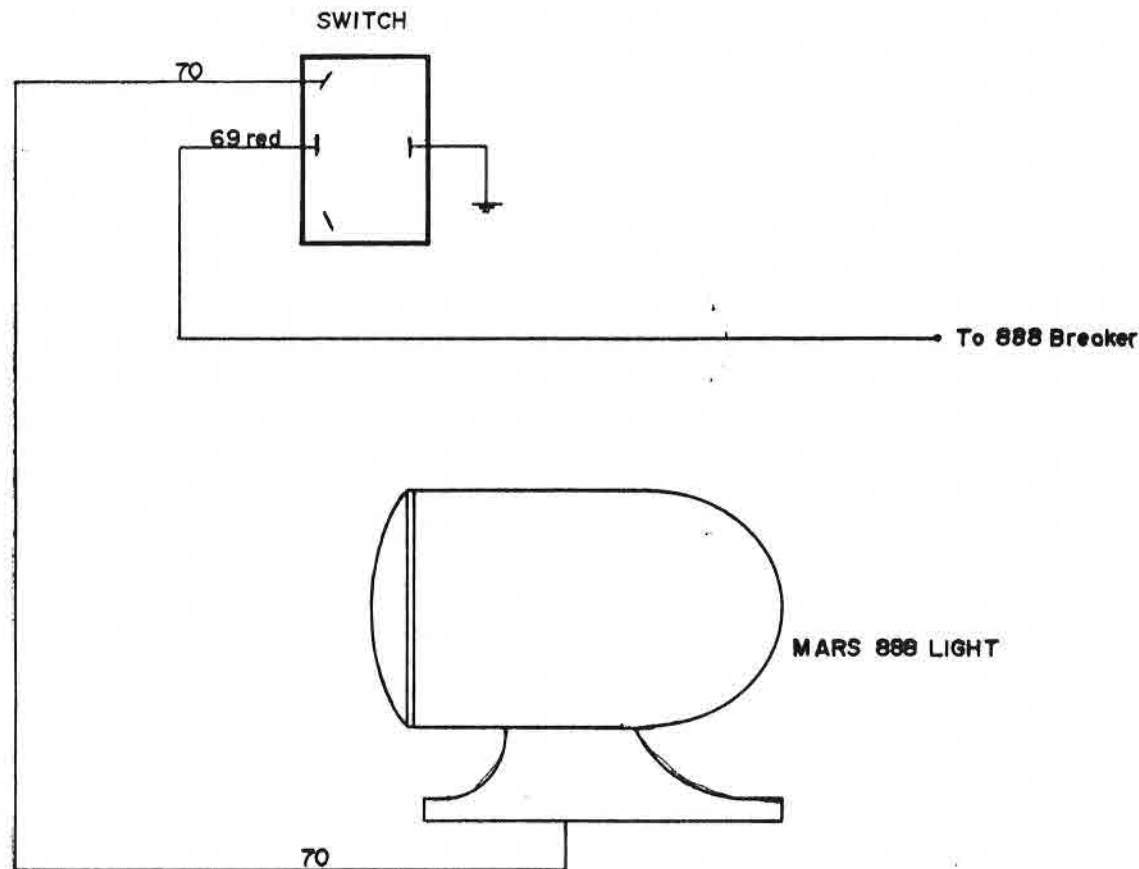


WIRING OF VANNER INVERTER

**THE HORTON CO.**

DRAWN BY RN	SCALE	MATERIAL
CHK'D	DATE 7-82	DRAWING NO.
TRACED	APP'D	31

64



Let.	By	Date	Chg.#	Description:

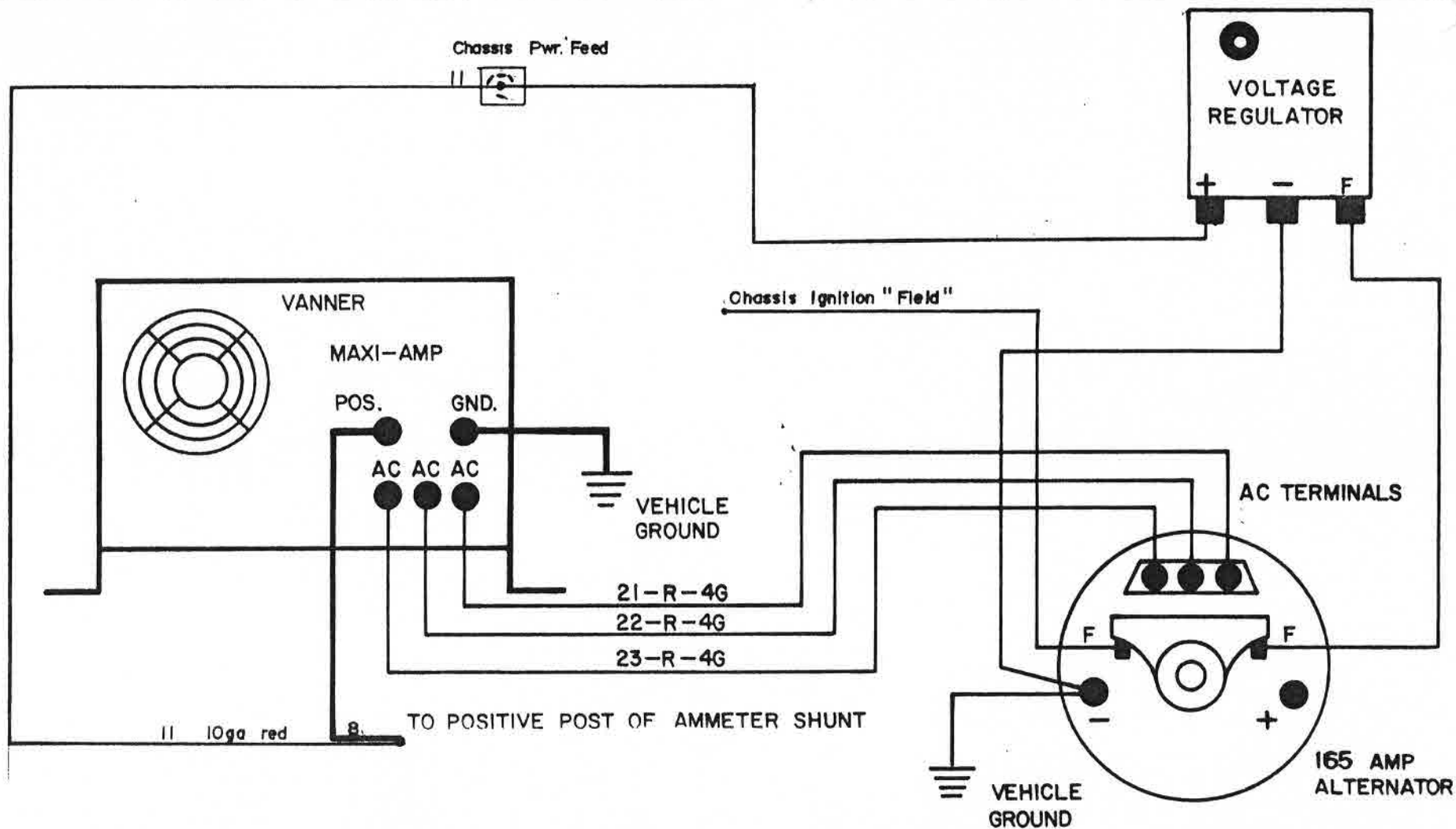
TOLERANCES (EXCEPT AS NOTED)
DECIMAL
±
FRACTIONAL
±
ANGULAR
±



WIRING OF MARS 888 LIGHT

**THE HORTON CO.**

DRAWN BY RN	SCALE	MATERIAL
CHK'D	DATE 7-82	DRAWING NO.
TRACED	APP'D	32



TOLERANCES  
(EXCEPT AS NOTED)

DECIMAL

±

FRACTIONAL

±

ANGULAR

±



HORTON

WIRING DIAGRAM 165 AMP ALTERNATOR  
WITH A 200 AMP MAXI-AMP POWER BOOSTER

**THE HORTON CO.**

DRAWN BY  
R. GLASSBURN

CHK'D

TRACED

SCALE

DATE 8/19/80

APP'D

MATERIAL

DRAWING NO.

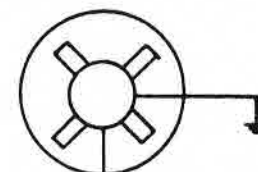
32

To  
PRV  
Breaker

35

Console Plug

POWER ROOF VENT



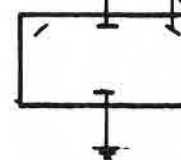
36

35

Rear Plug  
Rear Plug

35

36



SWITCH

Let.	By	Date	Chg.#	Description:

TOLERANCES  
(EXCEPT AS NOTED)

DECIMAL

±

FRACTIONAL

±

ANGULAR

±

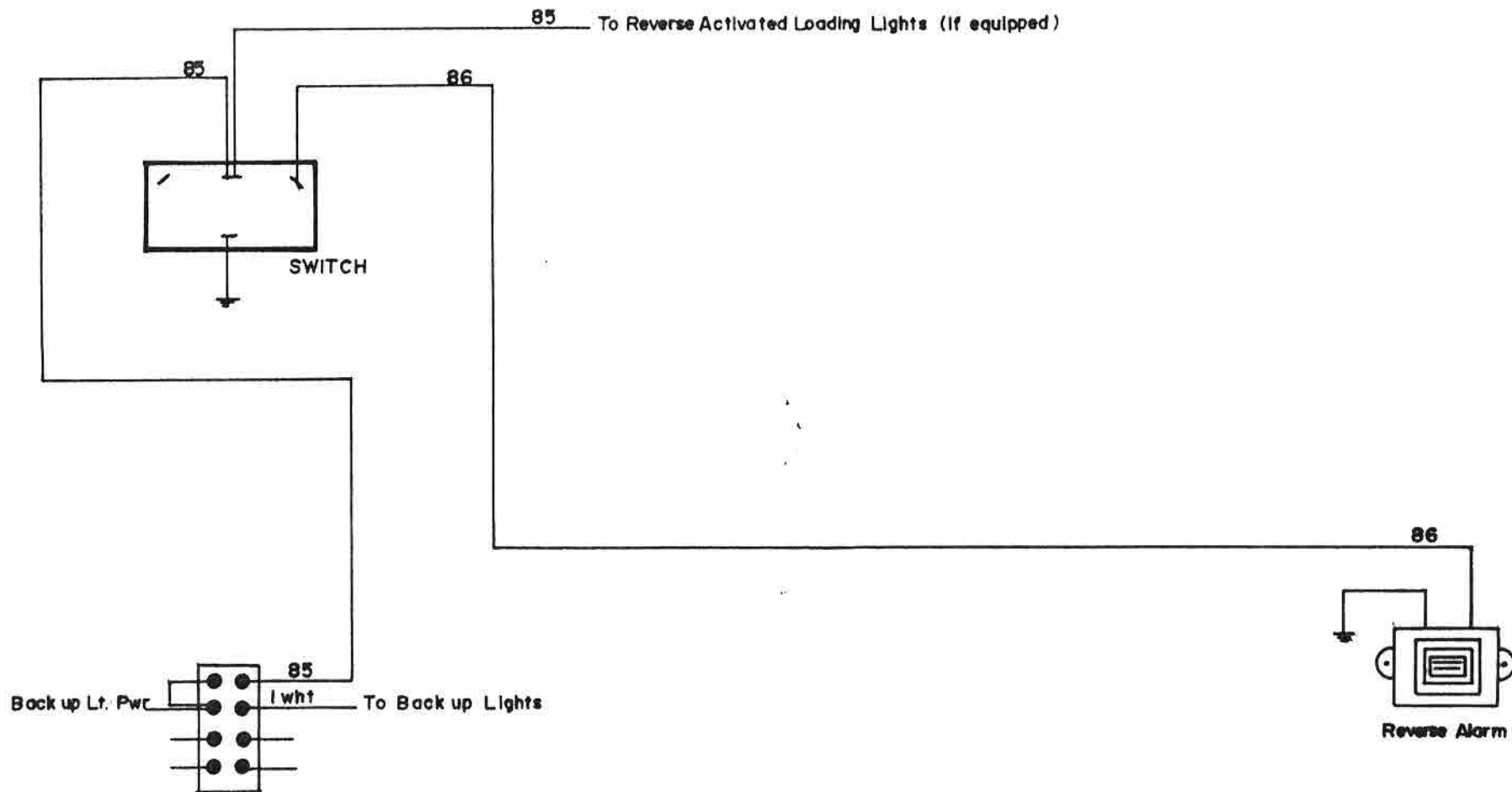


WIRING OF POWER ROOF VENT

**THE HORTON CO.**

DRAWN BY <b>R.NASH</b>	SCALE	MATERIAL
CHK'D	DATE <b>7-82</b>	DRAWING NO.
TRACED	APP'D	<b>33</b>

67



89

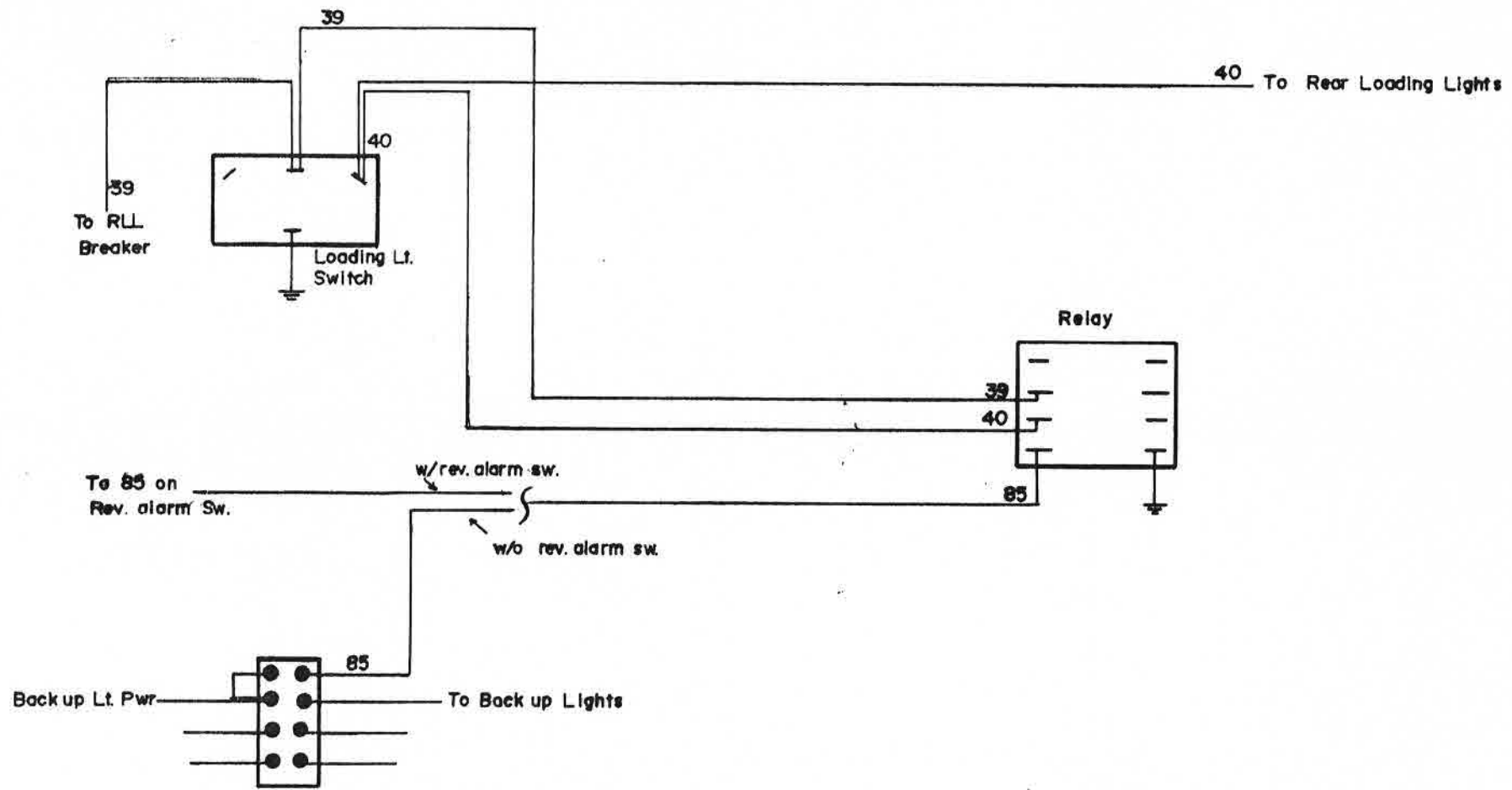
Let.	By	Date	Chg.##	Description:

TOLERANCES	
(EXCEPT AS NOTED)	
DECIMAL	
±	
FRACTIONAL	
±	
ANGULAR	
±	



Wiring of Reverse Alarm w/cutoff switch		
<b>THE HORTON CO.</b>		
DRAWN BY <b>RN</b>	SCALE	MATERIAL
CHK'D	DATE <b>7-82</b>	DRAWING NO.
TRACED	APP'D	<b>35</b>





69

Let.	By	Date	Chg.#	Description:

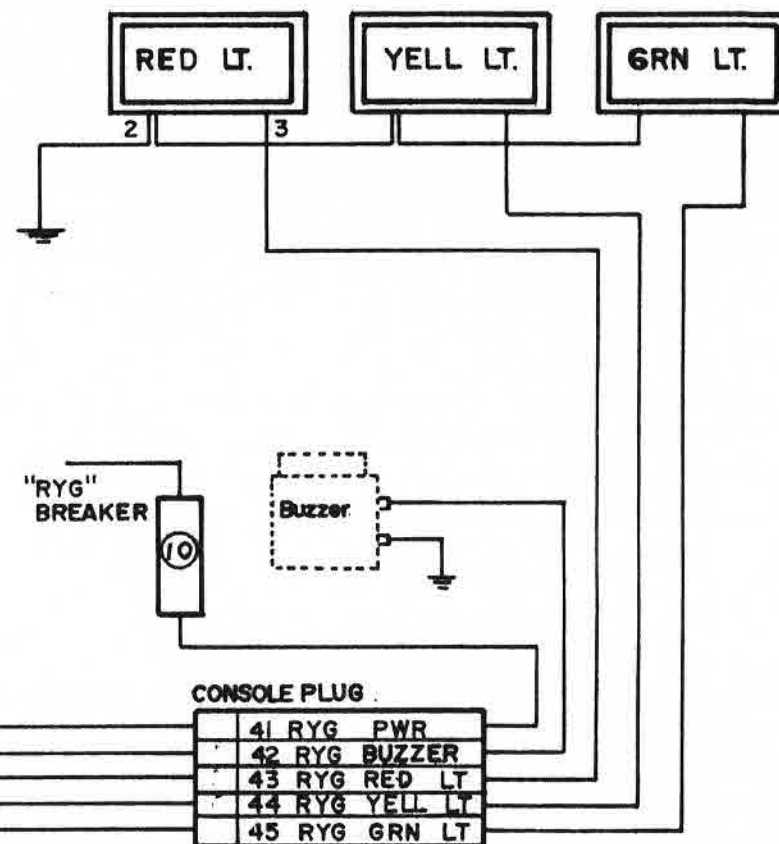
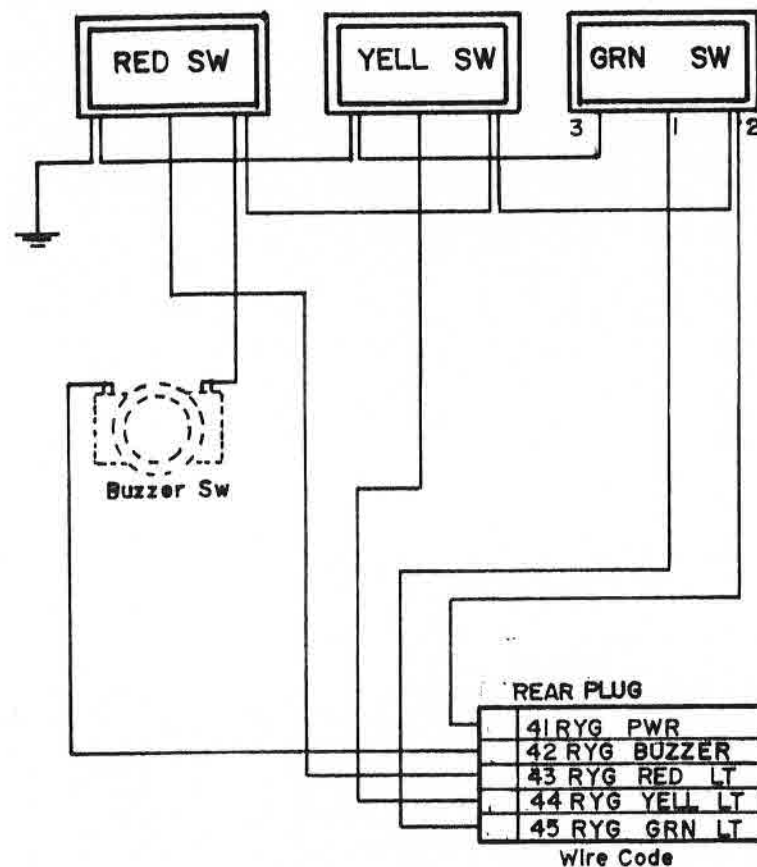
TOLERANCES (EXCEPT AS NOTED)
DECIMAL
±
FRACTIONAL
±
ANGULAR
±



Wiring of Reverse Activated Loading Lights		
<b>THE HORTON CO.</b>		
DRAWN BY <b>R.N.</b>	SCALE	MATERIAL
CHK'D	DATE <b>7-82</b>	DRAWING NO.
TRACED	APP'D	<b>36</b>

Rear

Front

TOLERANCES  
(EXCEPT AS NOTED)

DECIMAL

±

FRACTIONAL

±

ANGULAR

±



HORTON

OPTION - PATIENT WARNING SYSTEM

RYG - - - - - RYG WITH BUZZER

THE HORTON CO.

DRAWN BY  
R. NASH

SCALE

MATERIAL

CHK'D

DATE

4-82

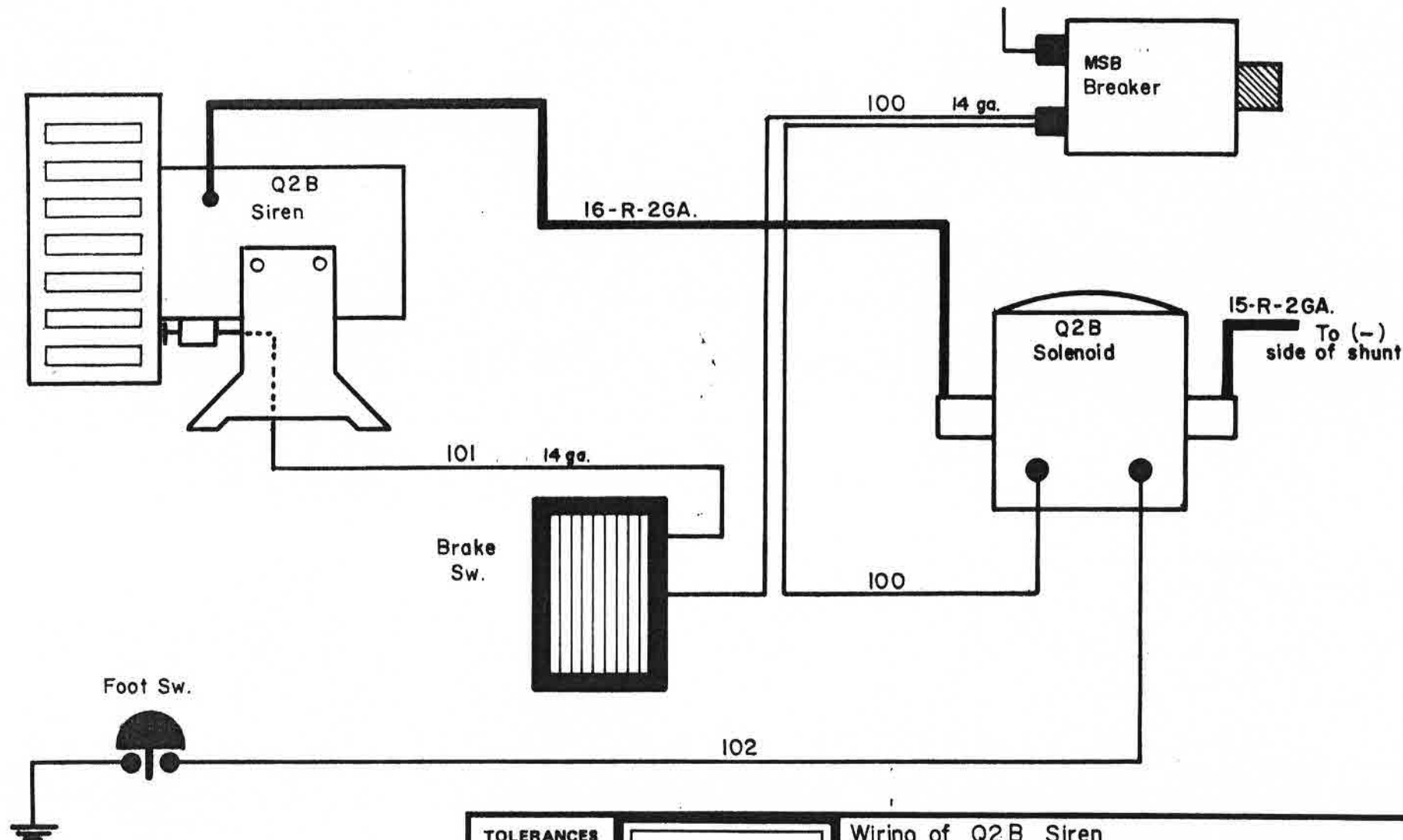
DRAWING NO.

TRACED

APP'D

04

Let.	By	Date	Chg.#	Description:



**TOLERANCES**  
(EXCEPT AS NOTED)

DECIMAL

±

FRACTIONAL

±

ANGULAR

±



**HORTON**

Wiring of Q2B Siren

**THE HORTON CO.**

DRAWN BY  
RN

SCALE

MATERIAL

CHK'D

DATE 7-82

DRAWING NO.

TRACED

APP'D

37



KEY BLUE PRINT CO. N06295

士



39



WIRING OF INTERSECTION LIGHTS		
THE HORTON CO.		
DRAWN BY RN	SCALE	MATERIAL
CHK'D	DATE 1- 83	DRAWING NO. 41
TRACED	APP'D	


VEHICLE # 4666

Pins	1	2	3			
1	26 F-TWIN	10GA SPARE	37 DOME LT PWR			
2	12 AMMETER	22 LF FLOOD LTS	1 SIREN SPKR			
3	13 AMMETER	24 RT FLOOD LTS	2 SIREN SPKR			
4	47P DOOR OPEN	40 Loading LT	7 Ignition			
5	47C COMPT OPEN	85 R ALARM PWR	C1 MARKER RELAY			
6	2 BATT 1 LT	86 REV. ALARM	56 MARKER LTS			
7	4 BATT 2 LT	9F AC CLUTCH	16 SPOT LTS			
8	43 RYG Red LT	9R AC CLUTCH	31 O2 PWR			
9	44 RYG Yellow LT	42 RYG BUZZER	35 R VENT PWR			
10	45 RYG Green LT	1F SPARE	39 Loading LT PWR			
11	63 FLASHER	2F SPARE	41 RYG PWR			
12	64 FLASHER	3F SPARE	50 COMPT LTS			
13	152 AC IND. LT	4F SPARE	50 COMPT LTS			
14	153 AC IND LT	1 1/2 SPARE	87 VACUUM PWR			
15	29 HORN SW	2 1/2 SPARE	157 THROTTLE PWR			
16	30 CHASSIS ALARM	3 1/2 SPARE	19 RF LIGHTS			
17	26-1 STINGER	4 1/2 SPARE	20 RF LIGHTS			
18	GND	10 BACK LT	67 Grille LTS			
19	GND	5F SPARE	68 Grille LTS			
20	GND	159 NEUTRAL Safety				
21	GND					
22	104 R. TWIN		8 AIR COND PWR			

SPARE	CIRCUIT NO.	DESCRIPTION	SPECIAL CIRCUITS ADDED YES OR NO	WIRES ADDED TO PLUGS YES OR NO
2 1/2	66	Grill STROBES		
2F	74	Fog LTS		
1 1/2	190	FLUORESCENT LT.		
3F	155	BLUE THROTTLE SOL		
4F	156	GRAY " SOL.		
157	158	GREEN " BRAKE		
159	159	ORANGE " NEUTRAL		

VEHICLE # 46666

[illegible]

			TOLERANCES (EXCEPT AS NOTED)	 HORTON	Pin - Plug Layout Modulars		
			DECIMAL		THE HORTON CO.		
			$\pm$		DRAWN BY	SCALE	MATERIAL
			FRACTIONAL		CHK'D	DATE	DRAWING NO.
			$\pm$				
			ANGULAR				



TRUCK NO. 4666 5314

TYPE F-451 CHANGEOVER

MADE BY RTA

CODE III SIREN
BREAKERS

CONSOLE  
FACE

BATT  
1

BATT  
2

DOOR  
OPEN

COMPT.  
OPEN

--

MASTER

VORTEC  
Throttle

AMP

VOLT

Light  
BAR

Red  
Flash

H/S

STINGER  
LT.

Gnill  
STROBES

--

--

--

L. FLOOD

SCENE

R. FLOOD

Rev.  
ALARM

FOG  
LTS

--

--



# SEAT BASE CIRCUIT BREAKER LAYOUT

TRUCK 5314-C TYPE 451

INITIALS GBF

USE NUMBE TO INDICATE BREAKER LOCATION

1. DRIVER SEAT BASE
2. FRONT LEFT COMP.
3. MID LEFT COMP.

4. REAR LEFT COMP.
5. BEHIND O2 PANEL
6. REAR RIGHT COMP.

7. MID RIGHT COMP.
8. FRONT RIGHT COMP.
9. PASSENGER SEAT

LOCATION  
NUMBER

POWER  
SOURCE

WIRE  
NUMBER

CIRCUIT  
DISCRPTION

1	1	1		
Shunt	BATT	BATT		
26-R-10	89-R-14	93-66-74		
Front LightBar Pwr	DC outlets	clock Pwr		

40

FLP

15

DCO

15

CBP

Bottom	TOP	
9	9	
Shoreline	Shoreline	
140-R-12	1-14/2-W	
Flor 110 Pwr	Flor Transformer Pwr	

15

FLC

15

ACO

BATT	BATT
RUNNING LTS	VACUUM PUMP
56-R-14	87-R-14

15

MRL

10

EVP

MAS	BATT
STINGER	FIGURES Lights
25-L-0-14	190-0-14

15

OLP

15

FLC

CIRCUIT BREAKER SIZE MAY BE 5 AMPS HIGHER THAN SHOWN

CIRCUIT BREAKER LAYOUT SHEET---VEHICLE NUMBER


BATT	BATT	BATT	BATT	BATT	BATT	BATT	BATT	BATT	BATT
MASTER	SPOT LT.	FLOOD LTS	O2 PWR	POWER VENT	DOVE LTS	DECK LTS	COMPT LTS	RUNNING LTS	VACUUM PUMP
5-R-14	16-G-14	21-GR-14 23-Y-14	31-R-14	35-Y-14	37-W-10	39-B-14	50-Y-14	56-R-14	87-R-14

5 10 15 10 5 25 10 15 15 10

MDS PMS FLP O2P PRV PDL RLC ECL MRL FVP

IGN	MAS	MAS	MAS	MAS	MAS	BATT	BATT	MAS	BATT
AIR COND	RED FLASH	F.TWIN	SIREN	AUTO THROTTLE	GRILL STROBE	FOG LTS	PANEL LT.	STINGER	FIGURES LIGHTS
8-R-12	18-R-10	25-R-10	27-R-12	157-B-14	65-R-14	73-B-14	14-B-14	25-I-0-14	190-0-14

30 20 25 20 10 15 20 15 15 15

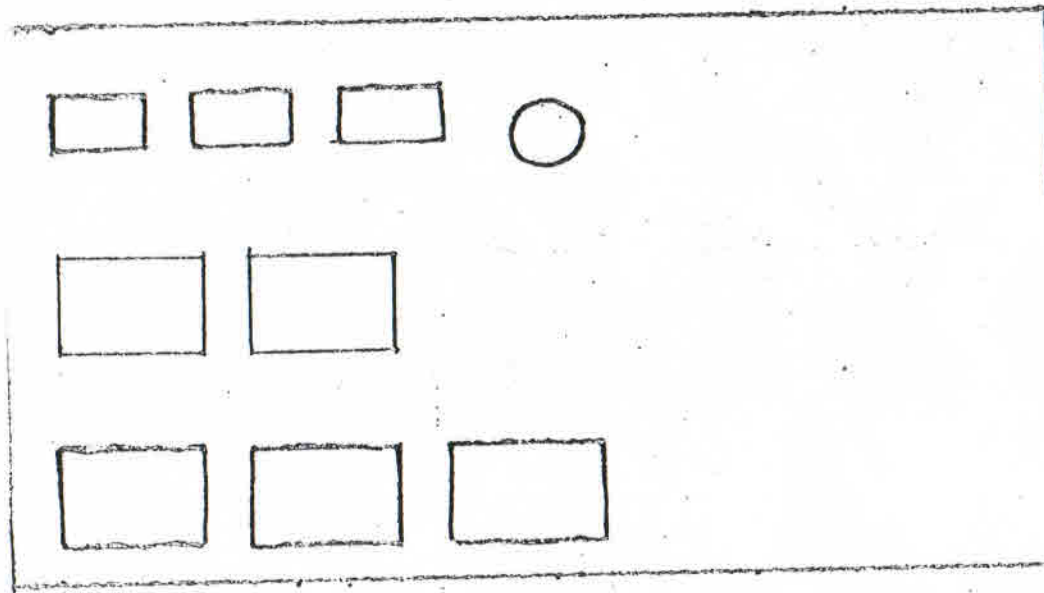
RAH RFL FTL ESP ATP GSP FFL CML OLP FLC

CIRCUIT BREAKER SIZE MAY BE 5 AMPS HIGHER THAN SHOWN

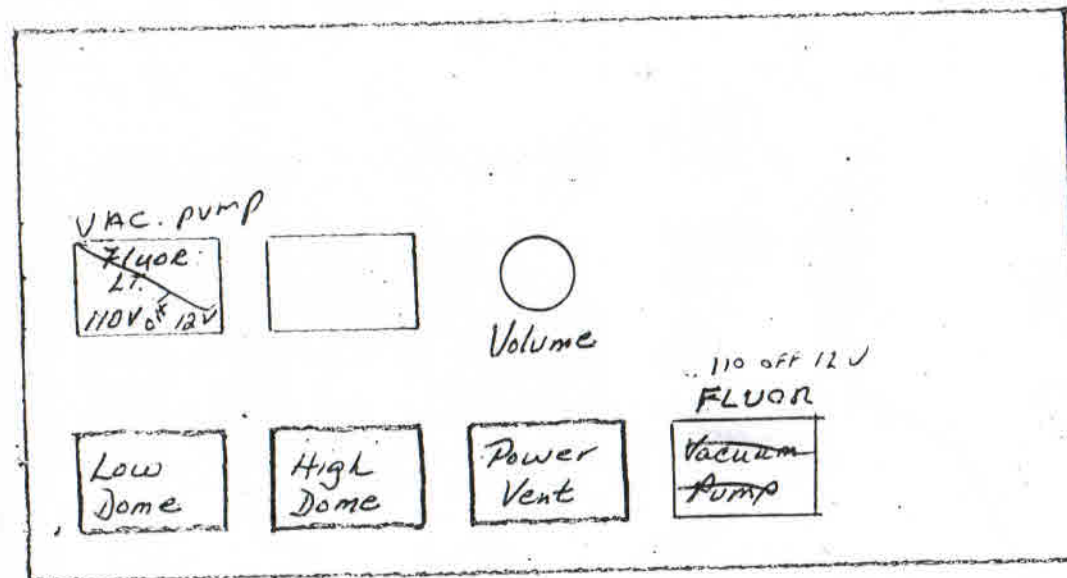
CIRCUIT BREAKER LAYOUT SHEET---VEHICLE NUMBER \_\_\_\_\_


○ ○ ○ ○ ○

# O<sub>2</sub> Control Panel



Standard - Patient Condition Buzzer



Standard

Vehicle 4666

Type (x) 451

BY LM

Non-Standard  
(Give Dimensions)

VEHICLE # 4666

Pins	1	2	3			
1	26 F. TWIN	10GA SPARE	37 DOME LT PWR			
2	12 AMMETER	22 LF FLOOD LTS	1 SIREN SPKR			
3	13 AMMETER	24 RT FLOOD LTS	2 SIREN SPKR			
4	47P DOOR OPEN	40 Loading LT	7 Ignition			
5	47C COMPT OPEN	85 R ALARM PWR	C1 MARKER RELAY			
6	2 BATT 1 LT	86 REV. ALARM	56 MARKER LTS			
7	4 BATT 2 LT	9F AC CLUTCH	16 SPOT LTS			
8	43 RYG Red LT	9R AC CLUTCH	31 O2 Pwr.			
9	44 RYG Yellow LT	42 RYG BUZZER	35 R VENT Pwr			
10	45 RYG Green LT	1F SPARE	39 Loading LT Pwr			
11	63 FLASHER	2F SPARE	41 RYG Pwr			
12	64 FLASHER	3F SPARE	50 COMPT LTS			
13	152 AC IND. LT	4F SPARE	50 COMPT LTS			
14	153 AC IND LT	1 1/2 SPARE	87 VACUUM Pwr.			
15	29 HORN SW	2 1/2 SPARE	157 Throttle Pwr.			
16	30 CHASSIS HORN	3 1/2 SPARE	19 RF LIGHTS			
17	26-1 STINGER	4 1/2 SPARE	20 RF LIGHTS			
18	GND	10 BACK LT	67 Grille LTS			
19	GND	5F SPARE	68 Grille LTS			
20	GND	159 NEUTRAL Safety				
21	GND					
22	104 R. TWIN		8 Air Cond Pwr.			

			SPECIAL CIRCUITS ADDED YES OR NO	
SPARE	CIRCUIT NO.	DESCRIPTION	WIRES ADDED TO PLUGS YES OR NO	
2 1/2	66	Grill STROBES		
2F	74	Fog LTS		
1 1/2	190	FLUORESCENT LT.		
3F	155	BLUE THROTTLE SOL		
4F	156	GRAY " SOL.		
157	158	GREEN " BRAKE		
159	159	ORANGE " NEUTRAL		

VEHICLE # 46666

[illegible]


TOLERANCES
(EXCEPT AS NOTED)
DECIMAL
$\pm$
FRACTIONAL
$\pm$
ANGULAR



## Pin - Plug Layout Modules

# THE HORTON CO.

DRAWN BY	SCALE	MATERIAL
CHK'D	DATE	DRAWING NO.



TRUCK NO. 4666

TYPE F-451

MADE BY RTA

CODE III  
SIREN

CONSOLE  
FACE

BREAKERS

BATT  
1

BATT  
2

DOOR  
OPEN

COMPT.  
OPEN

AMP

MASTER

VOLT

Light  
BAR

Red  
Flash

H/S

STINGER  
LT.

Grill  
STROBES

L. FLOOD

SCENE

R. FLOOD

Rev.  
ALARM

FOG LT

BATT	BATT	BATT	BATT	BATT	BATT	BATT	BATT	BATT	BATT
MASTER	SPOT LT.	Flood LTS	02 PWR	POWER VENT.	DOMELTS	DECK LTS	COMPT LTS	RUNNING LTS	VACUUM PUMP
5-R-14	16-G-14	21-G-14 23-Y-14	31-R-14	35-Y-14	37-W-10	39-B-14	50-Y-14	56-R-14	87-R-14

(5) (10) (15) (10) (5) (25) (10) (15) (15) (10)

MDS PMS FLP OAP PRV PDL RL ECL MRL FVP

IGN	MAS	MAS	MAS	MAS	MAS	BATT	BATT	MAS	BATT
AIR COND	RED FLASH	F.TWIN	SIREN	AUTO THROTTLE	Grill STROBE	FOG LTS	PANEL LT.	STINGER	FIGURES Lights
8-R-12	18-R-10	25-R-10	27-R-12	157-B-14	65-R-14	73-B-14	14-B-14	25-I-0-14	190-0-14

(30) (20) (25) (20) (10) (15) (20) (15) (15) (15)

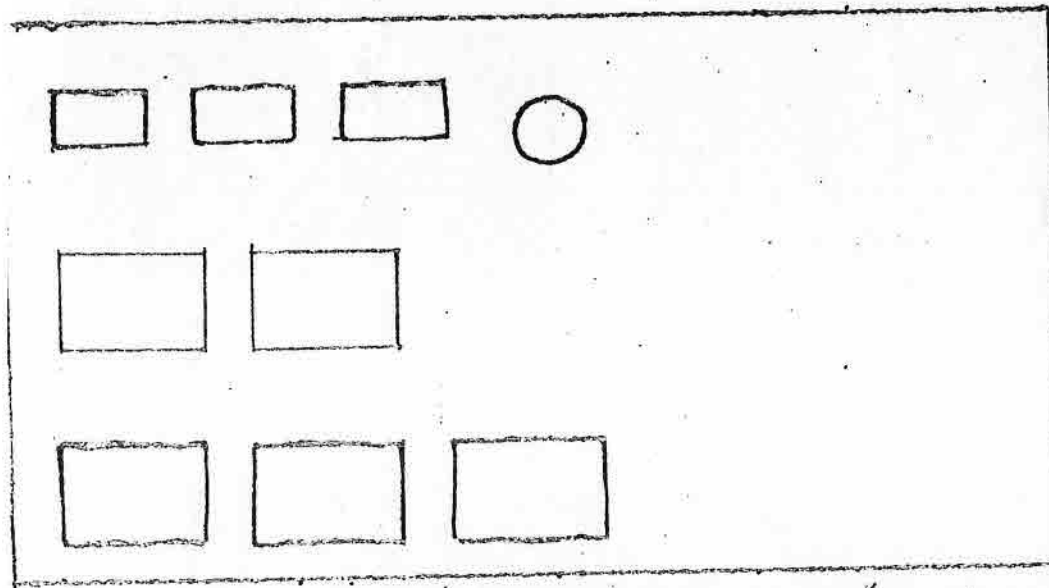
BAH BFL FTL ESP ATP GSP FFL CML OLP FLC

CIRCUIT BREAKER SIZE MAY BE 5 AMPS HIGHER THAN SHOWN

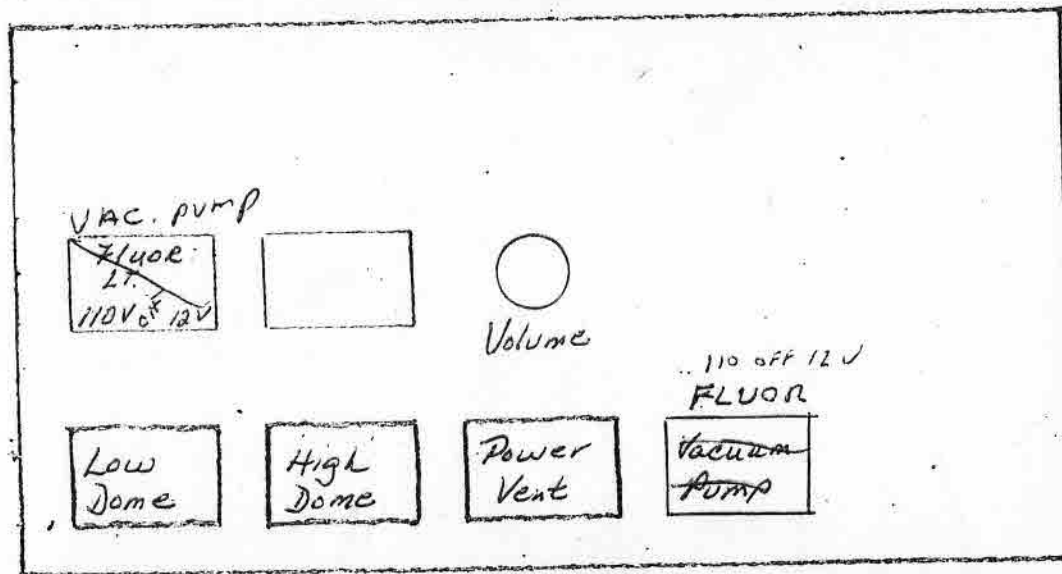
CIRCUIT BREAKER LAYOUT SHEET---VEHICLE NUMBER 4666




# O<sub>2</sub> Control Panel



Standard - Patient Condition Buzzer



Standard

Vehicle 4666

Type (x) 451

BY LM

Non-Standard  
(Give Dimensions)