

## **12 - ELECTRICAL INSTALLATION**

### **TECHNICAL DESCRIPTION**

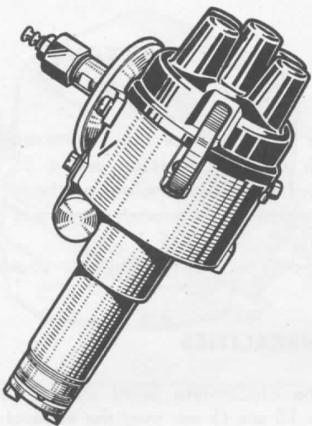
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### TECHNICAL DESCRIPTION

#### DISTRIBUTOR

The distributor, DUCELLIER or S.E.V. is equipped with :

- Centrifugal advance
- A vacuum advance corrector device corresponding to the curves of the XCI distributor type.

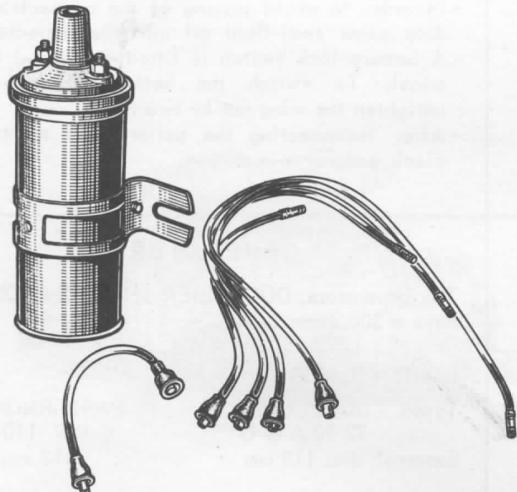
Original advance point :  $11^\circ$  on the flywheel corresponding to a 0,85 mm stroke of the piston.

**Adjustment:** breaking points opening : 0.50 mm.

Cam angle :  $57^\circ \pm 1$

Ignition sequence : 1-3-4-2.

**NOTE** - Only a test conducted on the bench can permit an accurate check of the distributor.



### COIL AND CONDENSER

**Coils** : DUCELLIER or S.E.V.

**Condensor** : same make as the distributor. In case of doubt about their operation, they should be checked on bench, comparing the spark length with the rated sparkers.

### WIRES

The wires Floquet, Retem, Acome are interference cleared. Length of the wires, in mm :

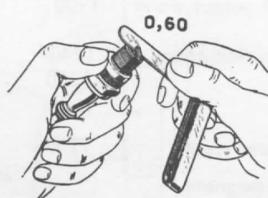
Coil-distributor : 240

Distributor-plug n° 1 770

n° 2 590

n° 3 510

n° 4 320



### SPARKING PLUGS

The plugs, AC-45 FG or MARCHAL 36 P, should be adjusted with a 0.60 mm gap.

#### Socket characteristics

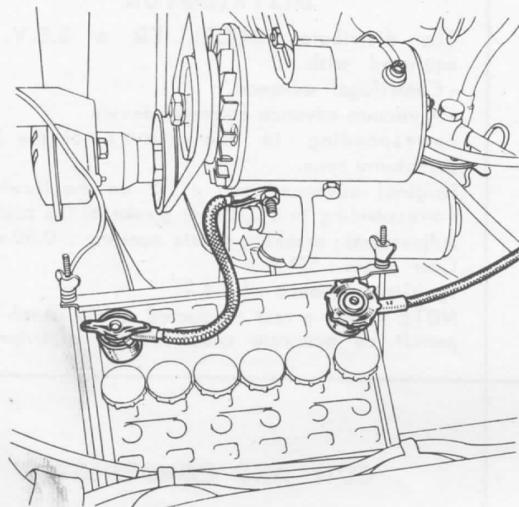
Dia : 14 mm - thread 125

Length 12 mm

### PRECAUTIONS

- Blow the socket thread and tallow it.
- Replace the plug gasket with each replacement.

**NOTE** - Should the recommended plugs not be available, respect the normal degree of the plug and the length of thread.

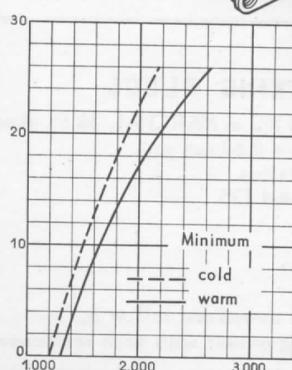
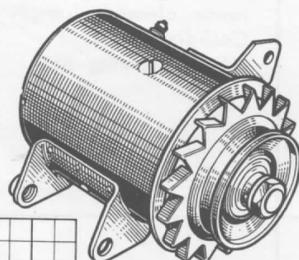


## BATTERY

The battery is of the "reversed polarity" type with a 12 V. tension and a 55 A/h capacity. Mounting : (-) terminal earthed. Connections : through terminals and protectors Areloco. (Electrical wiring diagrams pages 174 to 176).

## GENERALITIES

- The electrolyte level should cover the plates by 10 mm (5 mm over the separators).
- Top up only with distilled water.
- In case of frost, keep the battery fully loaded.
- In order to avoid rusting of the connections, drop some semi-fluid oil into the protectors,
- A battery lock switch is fitted on the (-) terminal. To switch the battery off circuit, untighten the wing-nut by two turns.
- After reconnecting the battery, set the time clock and set it in motion.



## GENERATOR

The generators, DUCELLIER or PARIS-RHONE, have a 300 watts power.

### IDENTIFICATION

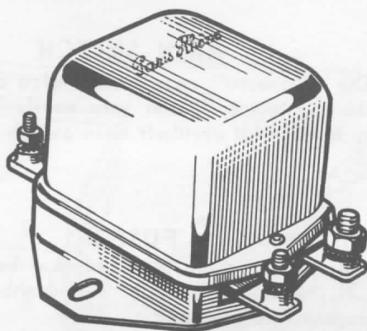
Types - DUCELLIER 72 10 A or G	PARIS-RHONE G II R 110
External dia. 118 mm	118 mm

### CHARACTERISTICS

Number of brushes :	2	2
Rotation belt end :	clockwise	clockwise
Normal output :	23 A	23 A
r.p.m. corresponding to 23 A output, warm	1900	1900
Conjunction speed, warm	1240/ 1280 r.p.m.	1250
Maximum r.p.m.	7700	7700

Field magnets  
resistors between 6.5 & 7.5 Ohms  $\Omega$

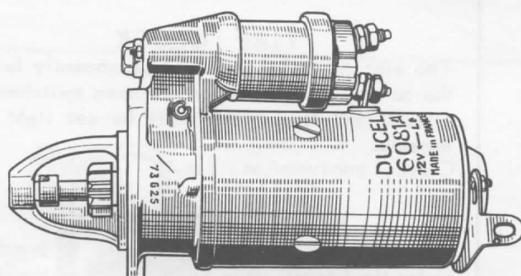
*NOTA - The three brushes DUCELLIER 7229 A or 7229 G generator, for the 404 with magnetic JAEGER coupler has the same characteristics as the 7210 A or G generators.*

**REGULATOR**

The two stage DUCELLIER or PARIS-RHONE regulators may equip indifferently one or the other dynamo.

**IDENTIFICATION**

Make	Earlier fitting	As per n° 4.026.087
DUCELLIER	Type 1341 - 14 A	Type 8297 - 16 A
PARIS-RHONE	Type YD 21 - 14 A	Type ID 21 - 16 A
DUCELLIER (404 J)	Type 8198 A - 18 A	

**STARTER**

The starter with positive electromagnetic control, DUCELLIER or PARIS-RHONE, is attached on three points.

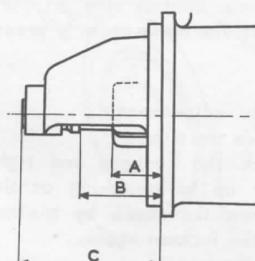
- Two on the clutch housing.
  - One on the cylinderblock.
- Its position onto the engine makes it of an easy reach and protects it efficiently from snow and mud.

**IDENTIFICATION**

Type	Ducellier	Paris-Rhone
Exterior dia.	6081 85 mm	D8E 31 85 mm

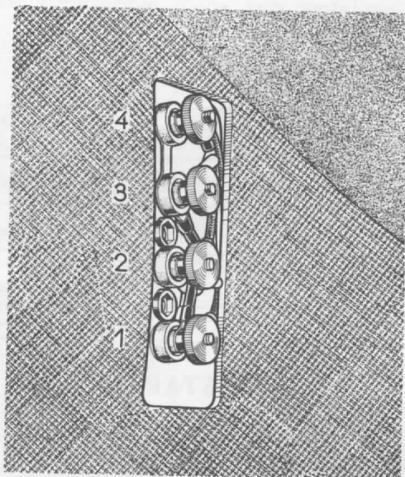
**Characteristics**

Average torque at 1000 r.p.m.	3.61 ft/lbs
Current strength absorbed	260 A
Torque, arrested	7.2 ft/lbs
R.p.m. free	7500
Current strength absorbed	12 A
Maximum power	1 HP
Current strength absorbed	240 A
Number of teeth of pinion	9

**DRIVER ADJUSTMENT**

To get a proper operation of the driver and increase its serviceable life, it is imperative to respect the following adjustment dimensions :

	Ducellier	Paris-Rhone
A in mm.	21 ± 0,6	21
B en mm	37,5 - 0 - 1	37 mini
C in mm.	62	63,5



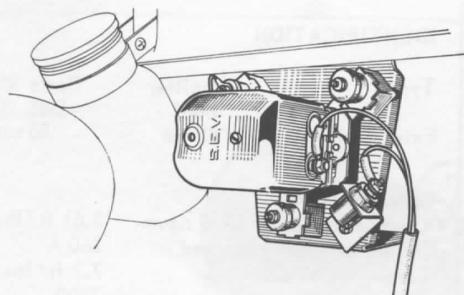
### MAIN SWITCH

The "Davauto" main switch also controls the starting motor. It can very easily be replaced by a NEIMAN antitheft main switch (page 173).

### FUSES

The four fuses are installed on a board, on the L.H. side, underneath the dashboard. They respectively protect :

- 1 - The head and tail lights, the instrument panel lighting and the luggage trunk light. (10 A fuse with cadmium belt).
- 2 - The hanging lamp socket, the parking lights roof light and horns (18 A fuse, brass belt).
- 3 - The traffic lights, stop lights and magnetic fan (10 A, cadmium belt).
- 4 - The heater and windscreens wiper (10 A fuse, cadmium belt).



### TIME CLOCK

The electrical time clock is permanently fed by the battery. If the battery has been switched off circuit, the time clock must be set right and a-going.

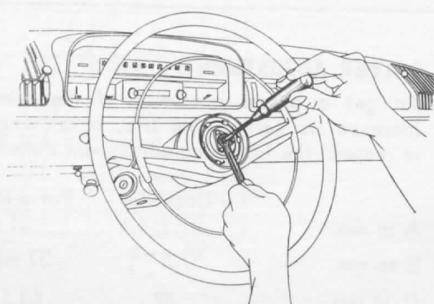
Clock consumption : 5 m.A.

### WINDSCREEN WIPER

The SEV windscreens wiper motor is installed under the bonnet. It is controlled from the dashboard. A "Relefix" switches it off when the brushes are in bottom position, leaving the whole windscreens surface unobstructed.

Windscreens wiper consumption : 2,5 A/h

A hanging lamp socket, without a switch is fitted onto the windscreens wiper motor support.

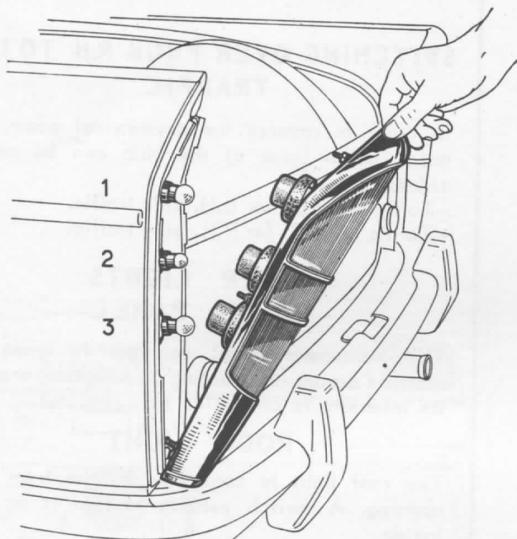


### HORNS

The horns control ring on the steering wheel switches the horns under a pressure on any part of it.

#### Control adjustment.

- Remove the trim.
- Unlock the locknut and tighten the central screw up to switching on the "town horn".
- Unscrew the screw by minimum one turn and lock the locknut again.
- Refit the trim.



### TRAFFIC LIGHTS

**Front end :** The traffic lights and lanterns are integral into one bulb, with double filament.

**NOTE :** As from the 404 n° 4.001.506, the lead n° 54 to the front lanterns has been mounted with the lead n° 26 to the rear lanterns.

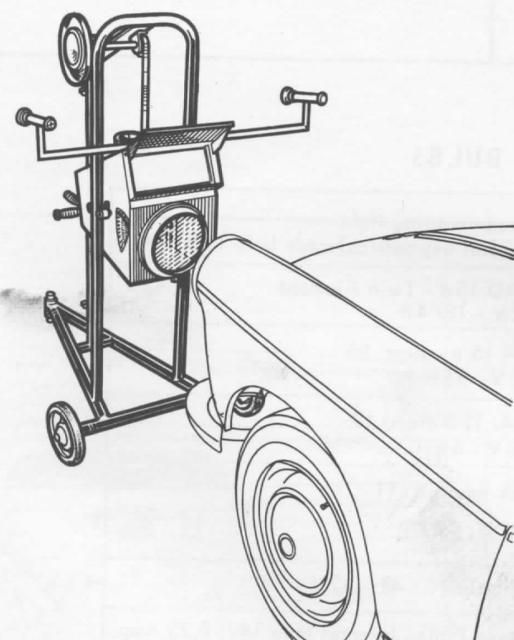
**Rear :** The tail lights include :

	USE	COLOUR
On top	Traffic light (flashing)	(1) Yellow
- In middle	Lantern	(2) Red
- Bottom	Stop	(3).Red

### PARKING LIGHTS

The parking lights on both front wings, act as flashing lights repeaters.

These repeaters only work when the parking lights control is at neutral.



### HEADLIGHTS

The headlights, in either make, Marchal, Ducellier or Cibié, are of the "Asymmetric beam" type.

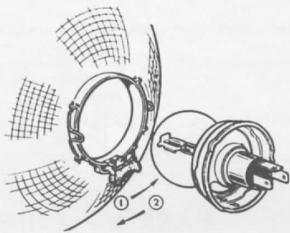
The special bulb used, which sets the half-beam 15° off above the horizontal, permits to deviate the crossing beam. A special checking equipment must compulsorily be used for adjustment.

### ADJUSTMENTS

Remove the headlight rim, pulling by the two lower holes.

- a - Vertical adjustment
  - 1 - Marchal - Ducellier  
work on the upper screw.
  - 2 - Cibié  
work on the lower screw.

- b - Lateral adjustment, work on one of the lateral screws.



### **SWITCHING OVER FROM R.H. TO L.H. TRAFFIC**

In order to reverse the asymmetrical beam, the notch guide lever of the bulb can be moved sideways :

- To the right (1) for L.H. side traffic.
- To the left (2) for R.H. side traffic.

### **INNER LIGHTS FASCIA PANEL**

The instrument panel can get lit when the lanterns are on, thus acting as a lighting warner. Its intensity is controlled by a rheostat.

### **ROOF LIGHT**

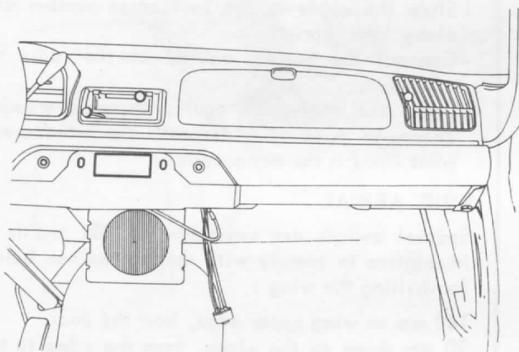
The roof light is controlled by the front door opening. A switch permits to turn it on from inside.

### **LUGGAGE TRUNK**

The light inside the luggage trunk is provided, when the lanterns are on, by a lamp with a switch on the support.

**TABLE OF BULBS**

Head lights	Road-crossing light Special asymetrical code bulb 12 V-40/45 W
Trafficators-Front lanterns	BAD 15 d - Twin filament 12V - 18/4W
Rear trafficators Stop	BA 15 s - diam. 25 12V - 15W
Rear lanterns Trunk lamp	BA- 15 d diam. 19 12V - 4W
Dashboard Oil pressure gauge Trafficators warning	BA 9s diam. 11 12V - 2W FB
Roof light	Shuttle 10×42 - 12V - 7W
Parking lights	Base E bis- Integral bulb 14V - 0,25 Amp.



## RADIO INSTALLATION

There is room for a radio set at the centre of the dashboard.

### PREPARING THE CAR

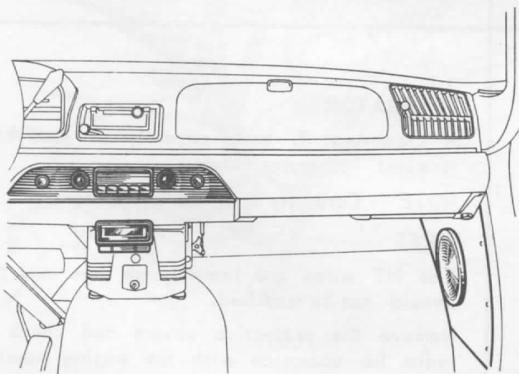
- Put protective covers on the wings, seats and steering wheel.
- Disconnect the battery.
- Remove :
  - The cardboard under the dashboard.
  - The ashtray drawer and wipers control knob.
  - The scuttle lining cardboard.
  - Eventually, the climatizer fascia.

Recover the central trim, mark the control axles passage holes center and drill.

### H.F. set installation

The Radiomatic, Arel and Philips radio sets are shaped to fit in the dashboard.

- Bring the box in position and fix it.
- Connect the feeding line on the fuse terminal n° 2 (page 168).
- Refit the accessories.
- Fit the ashtray on the lower panel of the dashboard (two 4 mm sheet-iron screws) and put the drawers back.

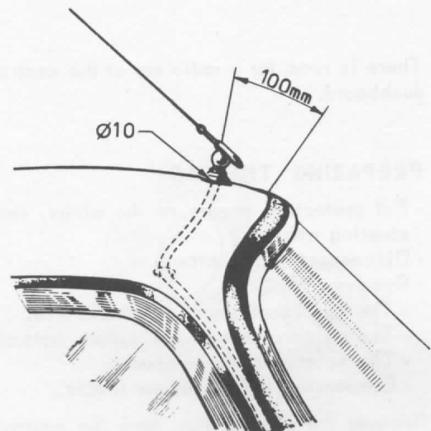


### Loudspeaker installation

- Cut the scuttle panel so as to fit the loud speaker base between the body uprights.
- Fit the load-speaker.
- Connect the wires on H.F. box.
- Fit the cardboard.

### Mixing

A "mood" auxiliary loudspeaker is sometimes installed with some types of radio sets. It comes on the rear seat back panel.



### AERIAL INSTALLATION

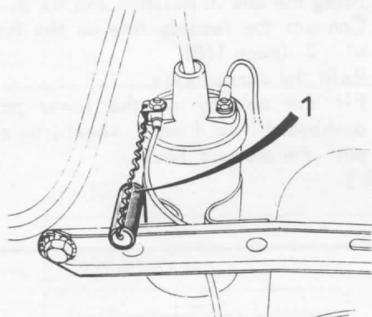
#### ROOF AERIAL

- Remove the R.H. sun-visor, the rear-view mirror and the roof upright R.H. pier.
- Unstick the roof cloth on 2/3 of the roof width.
- Carefully measure the centre of the roof and drill.
- Scrape the roof a few mm. around the hole.
- Fit the aerial.
- Slide the cable in the roof cross-member and along the upright.
- Connect the battery and check the radio for operation.
- Stick the roof-cloth again, using a wooden scoop to pass it underneath the windscreen joint lip. Fit the accessories.

#### WING AERIAL

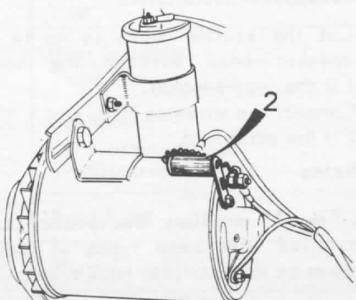
Special aerials are available for 404 and it is imperative to comply with the dimensions below for drilling the wing :

140 mm on wing upper edge, from the door.  
20 mm down on the slope, from the edge to the ventilator grille.



### INTERFERENCES SUPPRESSING COIL

A condenser 1 of  $0.50 \mu$  capacity must be connected on the lead n° 2 terminal (current feeding to the coil).



### GENERATOR

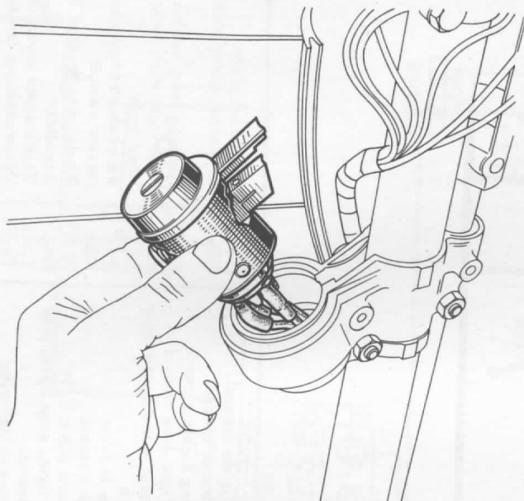
A condenser 2, same capacity on lead n° 7 terminal (generator output).

*NOTE - Carefully earth the condensors.*

### WIRES

The HT wires are interference free and they should not be modified.

Remove the protective covers and check the radio for operation with the engine running.



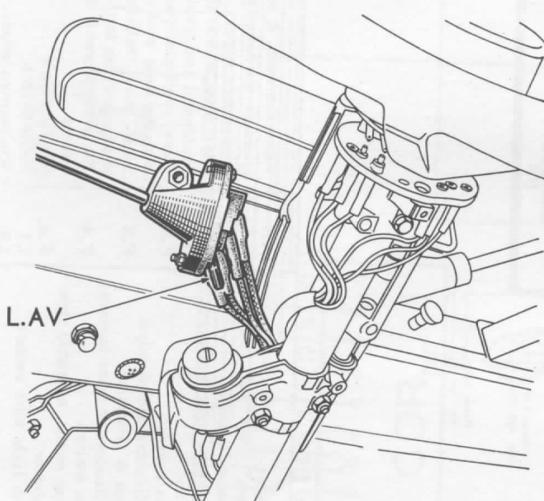
#### NEIMAN ANTITHEFT MAIN SWITCH

The Davauto main switch, fitted into the housing on the steering column, can be replaced by a Neiman antitheft main switch.

To fit the Neiman, follow the manufacturer's recommendation.

##### Connexion :

Wires 13 and 20 to (+) terminal (30)  
32 to terminal B (15)  
46 D (50)



#### ANTIMIST HEADLIGHT

Several types of antimist headlights may be installed without altering the look of the car.

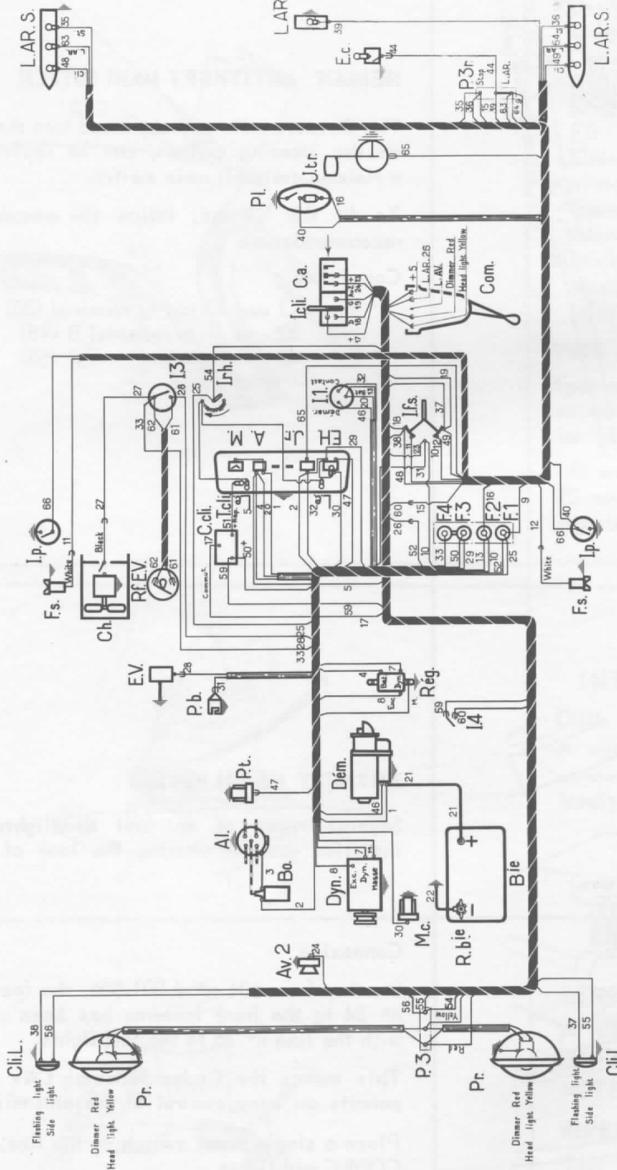
##### Connexion

Starting from 404 n° 4.001.506, the feeding line n° 54 to the front lanterns has been connected with the line n° 26 to the tail lights.

This makes the Codec terminal LAV free and permits an easy control of the anti-mist lights.

Place a single break switch on the line, between CODEC and lights.

## WIRING DIAGRAM DISC CLUTCH

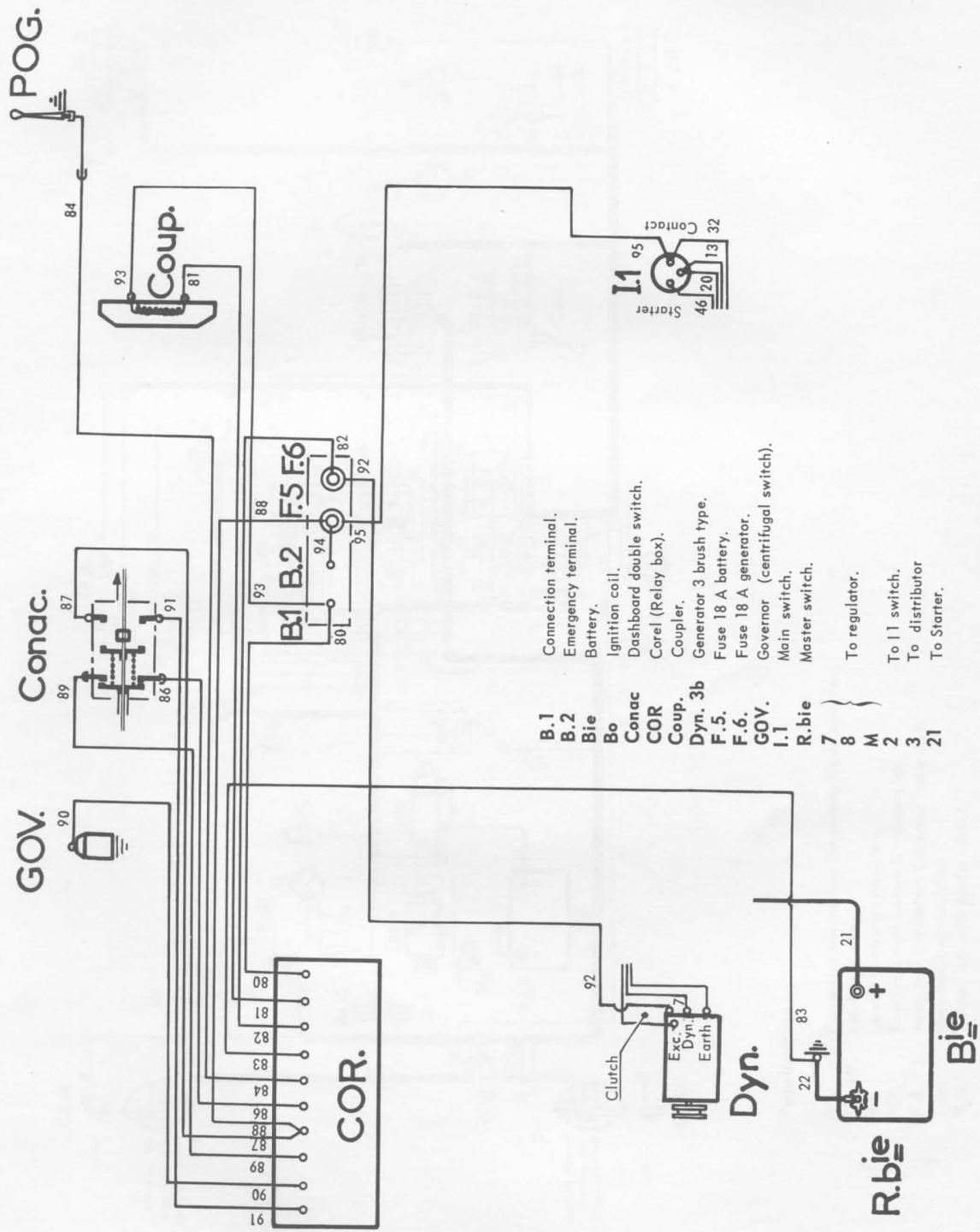


A	Ammeter "Town" horn "Country" horn Distributor with condensor Battery	EH EV F.1	Water thermometer & oil pressure warning light Windscreen wiper Fuse front & rear lanterns dashboard and trunk light	I.4 I.cli. I.f.s. I.p. I.rh.	Stop lights control Trafficator control Parking lights control Rooflight door control Rheostat - dashboard light	P.3 P.3.r.	3 terminal plate 3 terminal plate with connection bar
A1	Horns control	F.2	Fuse, rooflight, parking light, hanging lamp socket, horns	J.r.	Gauge receipt	P.b.	Hanging lamp socket
A2	Trafficators distribution	F.3	Fuse, stop, trafficators & disconnecting fan	J.t.r.	Gauge control	P.t.	Roof light with switch
A1	Heater & climatizer	F.4	Fuse windscreen wiper and heater	L.AR	Licence plate light	R.hie	Water thermometer connection
C.a.	Trafficators & front lanterns	F.s.	Parking light	L.ARS	Tail light, stop light, rear trafficator.	Rff.EV	Master switch
C.h	Light switch	I.1	Main switch	Le	Dashboard lightning	T.cli.	Windscreen washer Relifix
C.h.L	Starter motor, solenoid type	I.3	Windscreen wiper control	M	Time clock	V.d.	Regulator
Com.	Generator			Me	Oil pressure contact	V.d.	Trafficators repeator
Dem.	Trunk light with switch						Disconnecting fan thermostswitch
Dyn.							Disconnecting fan
E.C.							

# WIRING DIAGRAM JAEGER COUPLER

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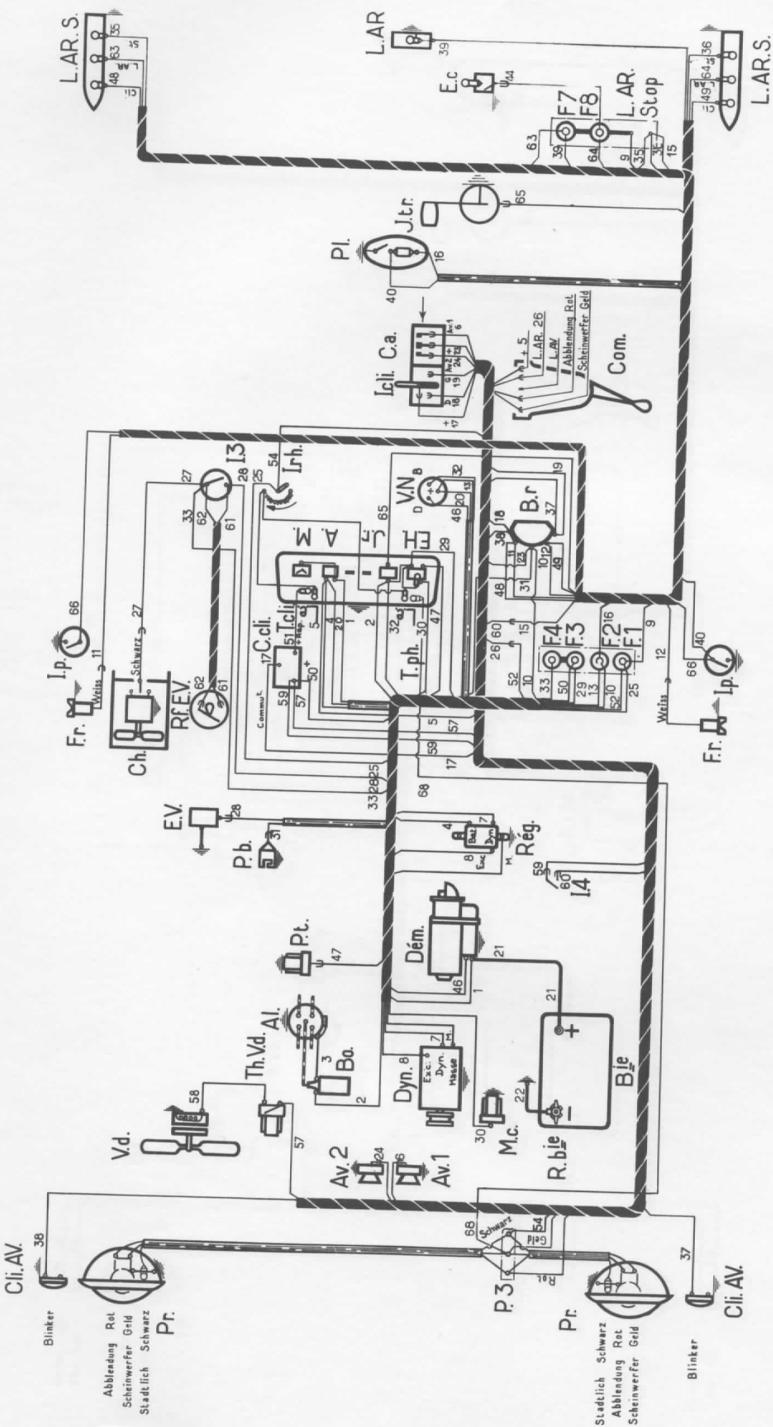
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# WIRING DIAGRAM GERMANY

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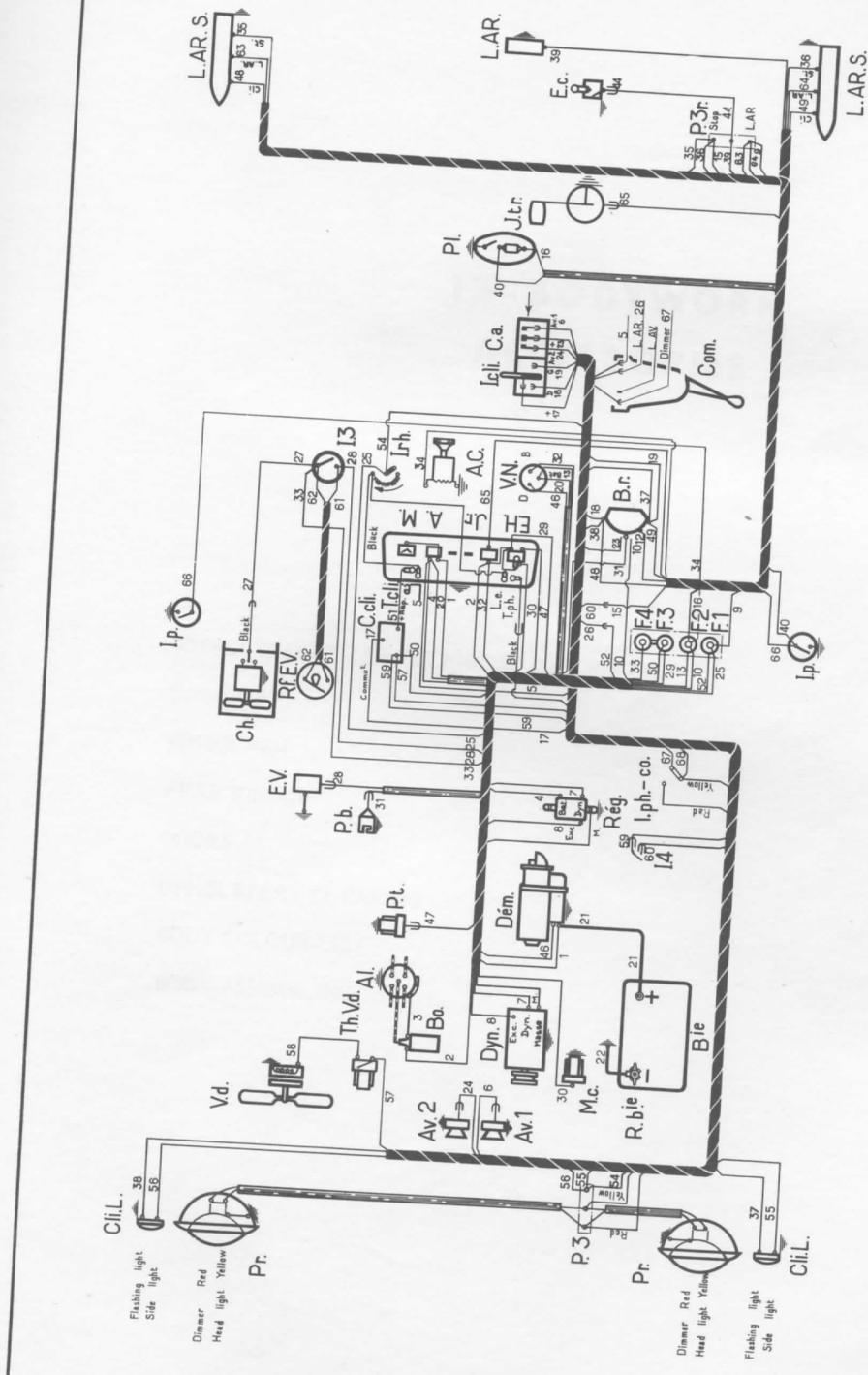
## Peculiarities.

- B.r.** Connection box (without the parking lights switches).
- Cli.AV.** Front trafficators.
- Fr.** Lateral trafficators repeaters.
- F.7.** Fuse, rear right lantern & license plate.
- F.8.** Fuse, rear left lantern & luggage trunk light.
- T.ph.** Head lights warning light.
- V.N.** Neiman lock with starter control.

# WIRING DIAGRAM U.S.A.

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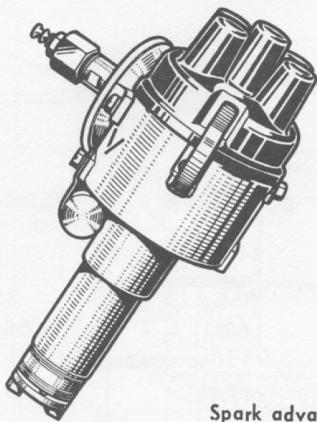
### Peculiarities.

- A.C. Cigar lighter.
- B.r. Connection box (without the parking lights control).
- F.2. Fuse, roof light, cigar lighter, hanging lamp socket and horns.
- I.ph.co. Road crossing lights two position control.
- T.ph. Road lights warning lamp control.
- V.N. Neiman lock with starter control.

## 12 - ELECTRICAL EQUIPMENT

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## DISTRIBUTOR



Spark advance diagram

404 w/ carburettor engine  
(all types)

XC 1

404 KF - KF 1

M 36

404 KF 2

M 42

- The Ducellier or S.E.V. distributor is equipped with :
- Centrifugal advance,
- Vacuum-operated advance corrector.

- Initial spark advance : 11 deg. at the flywheel, i.e. 85 mm before T.D.C.

- **Adjustment** : Contact-breaker point gap : .40 mm.  
 - Cam, or closing, angle :  $57 \pm 2$  deg.  
 - Firing order : 1 - 3 - 4 - 2.

**NOTE.**

*Strict testing of the distributor requires the use of a test bench.*

As from July, 1963, the vacuum-controlled advance mechanism range is limited to 5 deg. 30' instead of 8 deg. 30' on 404s with carburettor engines.

## SPARK PLUGS

## Earlier installation

## Short-base spark plugs

Up to serial numbers :

404	- 4.399.562	End of series equipped with 3-main bearing engine
404 J	- 4.527.038	
404 C	- 4.496.235	
404 L	- 4.837.402	
404 U6	- 4.719.903	
404 KF	- 4.554.832	
404 C.KF	- 4.591.574	

## Later installation

## Long-base spark plugs

As from serial numbers :

404	- 4.400.001	5-main bearing engine
404 J	- 4.528.001	
404 C	- 4.497.001	
404 L	- 4.838.001	
404 U6	- 4.720.001	
404 KF	- 4.554.833	

	Marchal	A.C.	Marchal	A.C.
404 U6	35 P		404 - 404 J	
404 - 404 J	36 P	44 F	404 C - 404 L	
404 L - 404 C			404 U6	
404 KF - 404 C.KF	34 S		404 KF - 404 C.KF	

Long-base spark plugs and short-base spark plugs are not interchangeable.

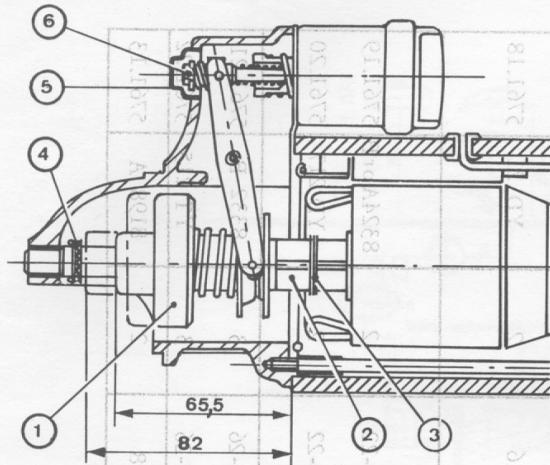
The engine may be irretrievably damaged if the spark plugs are not of the appropriate type.

## STARTERS - ALL TYPES OF 404s

		DUCELLIER	PARIS-RHONE
All types of 404s with petrol engine	O.D. Type Max. rated power Current consumption	85 mm 6081 1 HP 240 Amp.	85 mm D8E 31 1 HP 240 Amp.
All types of 404s with Diesel engine	O.D.	115 mm	
Up to serial number 404 LD - 4.977.477 404 U6D - 4.905.131 and all 404 DAs	Type Max. rated power Current consumption	6109 A 2.2 HP 300 Amp.	
As from serial numbers 404 D - 4.600.001 404 LD - 4.977.478 404 U6D - 4.905.132	Type Max. rated power Current consumption	6109 B (W/lengthened control solenoid) 2.02 HP 300 Amp.	

Starters Ref. No. 6109 A and 6109 B are interchangeable

D.P.D. supplies only type 6109 B for new starters.



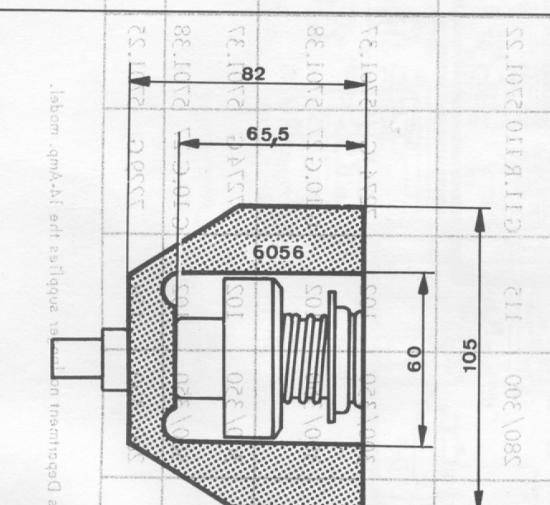
### MAINTENANCE

Self-lubricating bushings necessitate no additional lubrication during the service life of the equipment.

### CHECKS

Check the following during overhaul operations :

- Bushings for condition,
- Brushes for condition and free movement in the brush-holders (brushes should be replaced if their length is less than 8 mm),
- Commutator for surface condition and out-of-round (.05 mm max.),
- Undercut micas between commutator blades,
- Lubricate drive pinion splines before re-assembly.



### ADJUSTMENTS

#### DUCELLIER

##### 1) Drive

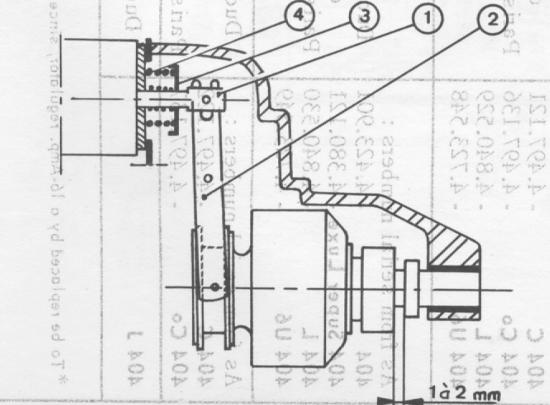
- Backwards movement of pinion 1 : 65.5 mm dimension.
- Add or remove washers 3 behind spacer 2.
- Pinion travel : 82 mm dimension.
- Screw in or out stop nut 4 and install pin.

The gauge shown on drawing opposite should be used for the two above adjustments.

##### 2) Solenoid

The following adjustment is used to take up longitudinal play of drive in unactuated position.

- Remove plug 5.
- Slacken adjusting nut 6 completely.
- Tighten adjusting nut 6 progressively until longitudinal play of drive has disappeared completely.
- Unscrew by one quarter of a turn.
- Re-install plug.



#### PARIS-RHONE

Adjusting clearance between front stop and drive pinion in actuated position :

- Operate switch under reduced voltage (10 V.) by energizing the two small terminals ; drive then comes up to actuated position, but does not rotate.
- Push armature and drive backwards to take up the clearances.

Make sure clearance between pinion and front stop is 1 - 2 mm.

- Adjust if required by adjusting yoke 1 controlling fork 2, after depressing backing cup 3 for return spring of plunger 4.

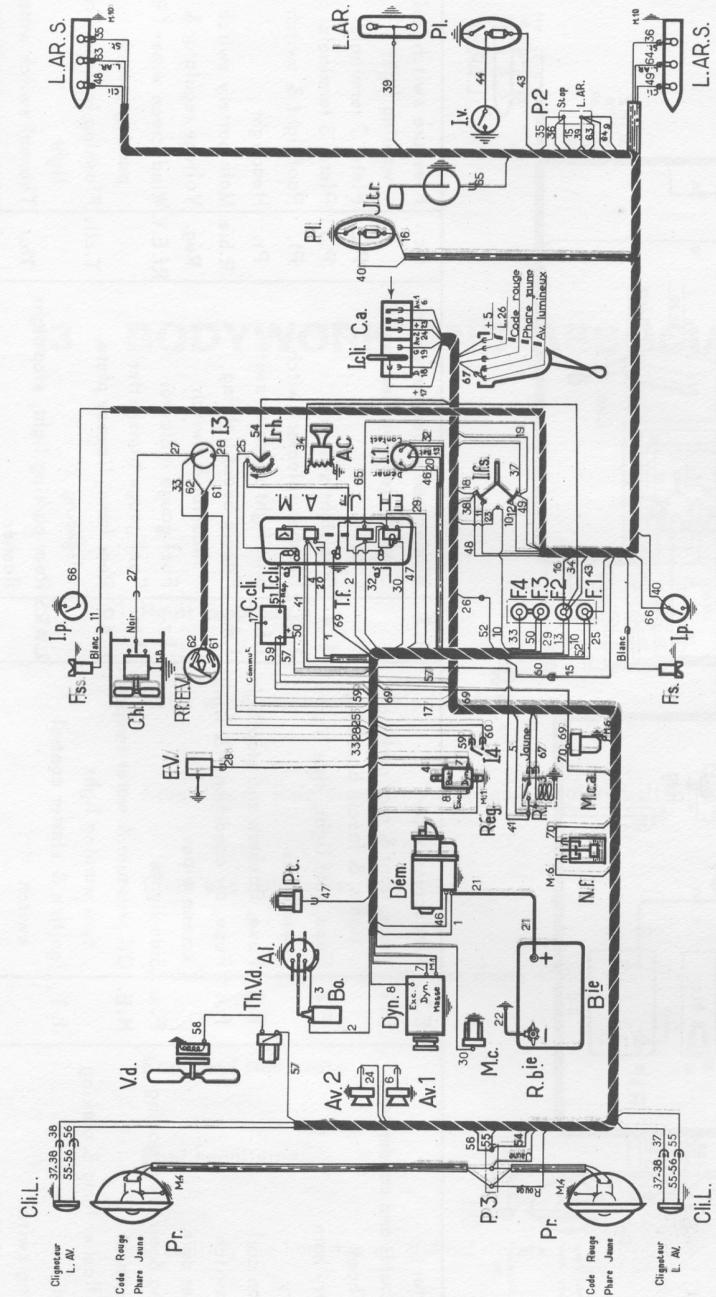
**NOTE.** - The solenoid should not remain energized for more than a few seconds to avoid deterioration of the windings.

**ELECTRICAL EQUIPMENT**  
**DYNAMOS & REGULATORS - ALL TYPES OF 404s WITH CARBURETTOR ENGINE**

TYPE OF CAR	MANUFACTURER	DYNAMO				REGULATOR		
		Power (watts)	Diameter (mm)	Ref. No.	P/N	Current (Amp.)	No. of units	Ref. No.
Up to serial numbers : <b>404 - 4.025.981</b>	Ducellier or Paris-Rhône	280/ 300	118	7210A or G	5701.21	14	2	1341
<b>404 - From serial number 4.025.982 to serial number 4.423.900</b>		280/ 300	115	G 11. R 110	5701.22	14	2	YD 21
Up to serial numbers : <b>404 Super Luxe - 4.380.120</b> <b>404 C - 4.497.121</b> <b>404 Co - 4.497.136</b> <b>404 L - 4.840.529</b> <b>404 U6 - 4.723.548</b>	Ducellier or Paris-Rhône	280/ 300	118	7210 G	5701.21	16	2	8297 A
		280/ 300	115	G 11. R 110	5701.22	16	2	YD 21
As from serial numbers : <b>404 - 4.423.901</b> <b>404 Super Luxe - 4.380.121</b> <b>404 L - 4.840.530</b> <b>404 U6 - 4.723.549</b>	Ducellier or Paris-Rhône	300/ 350	102	7274 G	5701.37	20-22	2	8324A or B
		300/ 350	102	G 10.G 27	5701.38	20-22	2	YD 217
As from serial numbers : <b>404 C - 4.497.122</b> <b>404 Co - 4.497.137</b>	Ducellier or Paris-Rhône	300/ 350	102	7274 G	5701.37	24-26	3	8332 B
		300/ 350	102	G 10.C 27	5701.38	24-26	3	YT 215
<b>404 J</b>	Ducellier	280/ 300	118	7229 G	5701.25	18	2	8198 A

\* To be replaced by a 16-Amp. regulator, since Spare Parts Department no longer supplies the 14-Amp. model.

ELECTRICAL SYSTEM WIRING DIAGRAM - BREAK & FAMILY CAR



A	Ammeter	F. 1	Fuse, 18 Amp., front & rear parking lights & fascia board light	I.f.s.	Side light selector switch
A.C.	Cigar lighter	F. 2	Fuse, 18 Amp., roof light, side lights, cigar lighter, & horns	I.p.	Door switch
A.I.	Distributor and condenser	F. 3	Fuse, 10 Amp., stop lights, flashers, and self-diengaging fan	I.mh.	Fascia board lighting rheostat & switch
Av.1	Town horn	F. 4	Fuse, 18 Amp., air conditioner & windscreen wiper	I.v.	Back gate switch
Av.2	Country horn	F.s.	Side light	J.r.	Fuel gauge indicator
Bie	Battery	I. 1	Ignition & starter control switch (or Neiman anti-theft lock)	J.tr.	Fuel gauge transmitter
Bo.	Ignition coil	I. 3	Windscreen wiper switch and windscreen washer control assy.	L.AR	Rear lamp, license plate lighting
C.h.	Horn switch	I. 4	Stop light switch	L.AR	Rear parking light, stop light, flasher
C.cli.	Flasher unit	I.cli.	Flasher selector switch	M.e.	Fascia board light
Ch.	Heating & air conditioning equipment			M.c.	Clock
Cli.L.	Front flasher lamp & parking light			M.c.a.	Pressure switch, oil pressure warning light
Com.	Lighting switch			N.f.	Pressure switch, power brake system
Dem.	Starter, solenoid type				Brake fluid level switch ("Nivocode")
Dyn.	Dynamo				V.d.
E.H.	Water thermometer & oil pressure warm. lt.				Self-diengaging fan
E.V.	Windscreen wiper				

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E.A.	Mains fuse box	1.1	Stop switch	Mc.	
E.H.	Ammeter	1.2	Stop switch	P.2	Pressure switch
D.b.	Distributor	1.3	Stop switch	P.3	oil pressure warning light
Daw.	24V horn	1.4	Stop switch	P.I.	Plate, 2 terminals
Cou.	Front Cds. Regn.	1.5	Stop switch	R.2	Plate, 3 terminals
Cli.	Front flasher	1.6	Stop switch	R.3	Roof light & switch
Ch.	Heating & air conditioning	1.7	Stop switch	Pl.	Roof light & switch
C.ca.	Electric fan	1.8	Stop switch	P.I.	Headlight
C.ca.	Heating & air conditioning	1.9	Stop switch	R.bie	Main battery switch
C.a.	Heating & air conditioning	1.10	Stop switch	Rég.	Voltage regulator & cut-out
Bo.	Heating & air conditioning	1.11	Stop switch	Rf.E.V.	Windscreen wiper "Relefix"
Bie.	Brake lights	1.12	Stop switch	T.cl.i.	Flashing indicator control
Y.A.S.	Com. V. horn	1.13	Stop switch	Th.l.	Light
Y.A.	Front flasher	1.14	Stop switch	T.cl.t.	Thermal switch water temperature warning light
V.I.C.	Front flasher	1.15	Stop switch	Th.t.	
A.V.	Front flasher	1.16	Stop switch		
A.V.	Front flasher	1.17	Stop switch		
Bie.	Front flasher	1.18	Stop switch		
Pr.	Front flasher	1.19	Stop switch		
Cli.L.	Front flasher	1.20	Stop switch		
Com.	Lighting switch	1.21	Stop switch		
Dém.	Starter, solenoid type	1.22	Stop switch		
		1.1	Ignition & starter control switch		
			Rear parking light, stop light		
			LARS		
			flasher		
		1.2	Windscreen wiper		
			Fuse, front & rear parking lights, & fascia board light		
			Fuse, roof light, side lights, and horns		
			Fuse, flashers and stop lights		
			Fuse, air conditioner & windsreen wiper		
			Fuse, air conditioner & water temperature warning light		
			Ignition & starter control switch		