1 GENERAL INFORMATION

HONDA CB X

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GENERAL SAFETY

WARNING

If the engine must be running to do some work, make sure the area is well-ventilated. Never run the engine in a closed area. The exhaust contains poisonous carbon monoxide gas.

WARNING

Gasoline is extremely flammable and is explosive under certain conditions. Do not smoke or allow flames or sparks in your working area.

WARNING

- *The battery electrolyte contains sulfuric acid. Protect your eyes, skin and clothing. In case of contact, flush thoroughly with water and call a doctor if your eyes were exposed.*
- *The battery generates hydrogen gas which can be highly explosive. Do not smoke or allow flames or sparks near the battery, especially while charging it.*

SERVICE RULES

1. Use genuine HONDA or HONDA-recommended parts and lubricants or their equivalent. Parts that do not meet HONDA's design specifications may damage the motorcycle.
2. Use the special tools designed for this product.
3. Install new gaskets, O-rings, cotter pins, lock plates, etc. when reassembling.
4. When torquing bolts or nuts, begin with larger-diameter or inner bolt first, and tighten to the specified torque diagonally, unless a particular sequence is specified.
5. Clean parts in cleaning solvent upon disassembly. Lubricate any sliding surfaces before reassembly.
6. When installing a new oil seal, make sure that the sealing lip is lubricated with grease. If an oil seal and related parts have been washed, apply proper grease to the lip of the oil seal.
7. After reassembly, check all parts for proper installation and operation.
8. Use only metric tools when servicing this motorcycle. Metric bolts, nuts, and screws are not interchangeable with English fasteners. The use of incorrect tools and fasteners may damage the motorcycle.

SPECIFICATIONS

ITEM			AREA (Type)
DIMENSIONS	Overall length	2,220 mm (87.4 in)	CM, SA, DK, DM, U
		2,240 mm (88.2 in)	E, G, F
		2,260 mm (89.0 in)	ED
	Overall width	885 mm (34.8 in)	CM, SA only
		780 mm (30.7 in)	
	Overall height	1,175 mm (46.3 in)	CM, SA only
		1,145 mm (45.1 in)	
	Wheelbase	1,495 mm (58.9 in)	
		1,485 mm (58.5 in)	ED only
	Seat height	810 mm (31.9 in)	
	Foot peg height	330 mm (13.0 in)	
	Ground clearance	150 mm (5.9 in)	
	Dry weight	249 kg (548.9 lb)	CM, SA, DK, DM, U
		247 kg (544.5 lb)	ED, E, G, F
FRAME	Type	Back-bone Style Diamond-configuration Structure	
	F. suspension, travel	Telescopic fork 160 mm (6.3 in)	
	R. suspension, travel	Swing arm 100 mm (3.9 in)	
	F. tire size, cold tire pressure	3.50H19 (4PR) 200 kPa (2,0 kg/cm^2, 28 psi)	CM, SA, DK, DM, U
		3.50V19 (4PR) 225 kPa (2,25 kg/cm^2, 32 psi)	ED, E, G, F
	R. tire size, cold tire pressure	4.25H18 (4PR) 280 kPa (2.8 kg/cm^2, 40 psi)	CM, SA, DK, DM, U
		4.25V19 (4PR) 280 kPa (2.8 kg/cm^2, 40 psi)	ED, E, G, F
	F. brake, lining swept area	Double disk brake	
	R. brake, lining swept area	Single disk brake	
	Fuel capacity	20.0 liters (5.28 U.S. gal., 4.4 Imp. gal.)	
	Fuel reserve capacity	5.0 liters (1.32 U.S. gal., 1.1 Imp. gal.)	
	Caster angle	62°30′	
	Trail	120 mm (4.7 in)	
	Front fork oil capacity	177 – 182 cm^3 (6.0 – 6.2 ozs)	
		157 – 162 cm^3 (5.3 – 5.5 ozs) at draining	
ENGINE	Type	Air cooled 4-stroke	
	Cylinder arrangement	Vertical parallel six	
	Bore and stroke	64.5 x 53.4 mm (2.54 x 2.10 in)	
	Displacement	1047 cm^3 (63.89 cu in)	
	Compression ratio	9.3 : 1	
	Valve train	Chain driven D.O.H.C. 4 valve	
	Maximum horsepower	<SAE> 77.1 kW/9,000 min^{-1} (103 BHP/9,000 rpm)	CM, SA, DK, DM, U
		<DIN> 77.2 kW/9,000 min^{-1} (105 PS/9,000 rpm)	ED, E, G, F
	Maximum torque	83.3 N·m/8,000 min^{-1} (8.5 kg-m, 61.5 ft-lb/8,000 rpm)	CM, SA, DK, DM, U
		84.3 N·m/8,000 min^{-1} (8.6 kg-m, 62.9 ft-lb/8,000 rpm)	ED, E, G, F
	Oil capacity	5.5 liters (5.8 U.S.qt., 4.8 Imp. qt)	
	Lubrication system	Wet sump dual pump system with oil cooler	
	Air filtration	Oiled polyurethane form	
	Cylinder compression	1176.8±98.1 kPa (12.0±1.0 kg/cm^2, 170±14 psi)	
	Intake valve Opens	5° (BTDC) at 1 mm lift, 58° (BTDC) at 0 lift	
	Closes	40° (ABDC) at 1 mm lift, 115° (ABDC) at 0 lift	
	Exhaust valve Opens	40° (BBDC) at 1 mm lift, 94° (BBDC) at 0 lift	
	Closes	5° (ATDC) at 1 mm lift, 71° (ATDC) at 0 lift	
	Valve clearance	IN: / EX: 0.08 mm (0.003 in) +0.05 mm (+0.002 in) −0.02 mm (−0.001 in)	
	Engine weight	106 kg (234 lb)	CM, SA, DK, DM, U
		105 kg (231 lb)	ED, E, G, F
	Idle speed	900±100 min^{-1} (900±100 rpm)	

ITEM			AREA (Type)
CARBURETION	Carburetor type	VB type, 28 mm (1.1 in) venturi bore	
	Identification number	VB60A	CM, SA, DK, DM, U
		VB61A	ED, E, F, G
	Pilot screw	Refer to 4–26.	
	Float level	15.5 mm (0.61 in)	
DRIVE TRAIN	Clutch	Wet, multi-plate	
	Transmission	5-speed constant-mesh	
	Primary reduction	2.269	
	Gear ratio I	2.438	
	Gear ratio II	1.750	
	Gear ratio III	1.391	
	Gear ratio IV	1.200	
	Gear ratio V	1.037	
	Final reduction	2.333 (15/35)	
		2.200 (15/33)	ED only
	Gear shift pattern	Left foot operated return system	
ELECTRICAL	Ignition	Transistorized	
	Ignition timing "F" mark	10° BTDC at 900±100 min^{-1} (rpm) idle	
	Full advance	41° BTDC at 8.000 min^{-1} (rpm)	
	Starting system	Starting motor only	
	Generator	Three phase A.C. generator 0.35 kW/ 5.000 min^{-1} (rpm)	CM, SA, DK, DM, U
		Three phase A.C. generator 0.24 kW/ 5.000 min^{-1} (rpm)	ED, E, G, F
	Battery capacity	12 V – 18 AH	CM, SA, DK, DM, U
		12 V – 14 AH	ED, E, G, F
	Spark plug	Type / Manufacturer: SA, DK, DM, U / CM, E, G, F, ED Denso: X24ES-U / X24ESR-U NGK: D8EA / DR8ES-L	
	Spark plug gap	0.6 – 0.7 mm (0.024 – 0.028 in)	
LIGHTS	Headlight (low/high beam)	55/60 W H4 BULB (Philips 12342/99, or equivalent)	CM, ED, E, G, F
		40/50 W	SA, DK, DM, U
	Tail/stoplight	3/32 cp	CM
		3/21 W	ED, E, G, F
		8/27 W	SA, DK, DM, U
	Turn signal light (front/rear)	32/32 cp	CM
		5/21 W	ED, E, G, F
		8/27 W	SA, DK, DM, U
	Speedometer light	3.4 W (2 cp)	( ) CM only
	Tachometer light	3.4 W (2 cp)	
	Neutral indicator light	3.4 W (2 cp)	
	Turn signal indicator light	3.4 W (2 cp)	
	High beam indicator light	3.4 W (2 cp)	
	Running light	3 cp	CM
	Position light	4 W	ED, E, G, F
		3 W	SA, DK, DM, U

TORQUE VALUES

- ENGINE

Item	Q'ty	Thread Dia (mm)	Torque N·m (kg-m, ft-lb)	Remarks
Cylinder head cover	8	6	8–12 (0.8–1.2, 6– 9)	
Cam holder	32	6	12–14 (1.2–1.4, 9–10)	
Cylinder head	8	10	32–34 (3.2–3.4, 23–25)	Apply molybdenum disulfide base grease to threads and underside of nuts
Cylinder head	10	8	19–21 (1.9–2.1, 14–15)	
Cam sprocket	4	7	14–16 (1.4–1.6, 10–12)	
Spark plug	6		12–16 (1.2–1.6, 9–12)	Apply molybdenum disulfide base grease to threads and underside of bolts
Crankcase		8	23–27 (2.3–2.7, 17–20)	
A.C. generator	1	14	36–44 (3.6–4.4, 26–32)	
Primary shaft	1	22	40–50 (4.0–5.0, 29–36)	
Mainshaft	1	25	45–55 (4.5–5.5, 33–40)	
Drive sprocket	1	10	33–37 (3.3–3.7, 24–27)	
Connecting rod nut	12	8	28–32 (2.8–3.2, 20–23)	
Oil filter center bolt	1	20	27–33 (2.7–3.3, 20–24)	
Oil pressure switch	1		15–20 (1.5–2.0, 11–15)	Apply THREE-BOND
Neutral switch	1	10	11–15 (1.1–1.5, 8–11)	
Oil drain bolt	1	12	28–32 (2.8–3.2, 20–23)	
Oil pipe	1	8	18–22 (1.8–2.2, 13–16)	
Oil pipe	1	10	20–24 (2.0–2.4, 14–17)	

- CHASSIS

ITEM	Q'ty	Thread Dia (mm)	Torque N·m (kg-m, ft-lb)	Remarks
Steering stem nut	1	24	80–120 (8.0–12.0, 59–87)	
Steering handlebar	2	8	28–32 (2.8–3.2, 20–23)	
Front fork top bridge	2	7	9–13 (0.9–1.3, 7– 9)	
Front fork bolt	2	31	20–30 (2.0–3.0, 15–22)	
Front axle nut	1	12	55–65 (5.5–6.5, 40–48)	
Front/rear brake disc	10	8	27–33 (2.7–3.3, 20–24)	UBS
Brake hose bolt	5	10	25–35 (2.5–3.5, 18–25)	
Rear axle	1	18	80–100 (8.0–10.0, 59–72)	
Final driven sprocket	5	12	80–100 (8.0–10.0, 59–72)	UBS
Swing arm pivot nut	1	14	60–70 (6.0–7.0, 43–51)	
Seat strap	2	6	8–9.5 (0.8–0.95, 6– 7)	
Engine hanger nut	3	14	90–100 (9.0–10.0, 65–72)	
Air cleaner inlet duct	2	5	3– 6 (0.3–0.6, 2– 4)	
Head top thread	1	26	8–12 (0.8–1.2, 6– 9)	

Fasteners not listed should be tightened to standard torques listed below.

STANDARD TORQUE VALUES

Type	Torque N·m (kg-m, ft-lb)	Type	Torque N·m (kg-m, ft-lb)
5 mm bolt, nut	4.5–6 (0.45–0.6, 3.5–4.5)	5 mm screw	3.5–5 (0.35–0.5, 2.5–3.6)
6 mm bolt, nut	8–12 (0.8–1.2, 6–9)	6 mm screw	7–11 (0.7–1.1, 5–8)
8 mm bolt, nut	18–25 (1.8–2.5, 13–18)	6 mm flange bolt, nut	10–14 (1.0–1.4, 7–10)
10 mm bolt, nut	30–40 (3.0–4.0, 22–29)	8 mm flange bolt, nut	24–30 (2.4, 3.0, 17–22)
12 mm bolt, nut	50–60 (5.0–6.0, 36–43)	10 mm flange bolt, nut	30–40 (3.0–4.0, 22–29)

SPECIAL TOOLS/COMMON TOOLS

- SPECIAL TOOLS (Newly provided)
  CB X SPECIAL TOOL SET No. 07900–4220100 (Includes special tool case)

Tool Name	Part No.	Q'ty	Ref. page
Oil pressure gauge attachment	07510–4220100	1	2–3
Carburetor throttle wrench	07908–4220100	1	3–8, 4–12
Carburetor pilot screw wrench	07908–4220200	1	4–26
Lock nut wrench	07916–4220000	1	8–4, 8–11
Primary gear holder	07924–4220000	1	8–7, 8–8
Piston ring compressor	07954–4220000	4	7–8
Valve lifter holder	07964–4220000	2	3–11
Degree wheel	07974–4220000	1	3–6
Valve lifter hole protector	07999–4220000	1	6–12, 6–18

- SPECIAL TOOLS (Other models)

Tool Name	Part No.	Q'ty	Ref. page
Vacuum gauge set	07404–0020000	1	3–7
Oil pressure gauge	07506–3000000	1	2–3
Snap ring pliers	07914–3230001	1	15–8, 15–15
Steering stem socket	07916–3710100	1	13–27
6 mm hollow set wrench	07917–3230000	1	13–20, 13–23
Race bearing remover	07946–3710500	1	13–26
Steering stem driver	07946–3710600	1	13–26
Bearing driver attachment	07946–3710700	1	13–27
Piston base	07958–2500000	4	7–8
Valve guide reamer (5.5 mm)	07984–2000000	1	6–14, 6–16

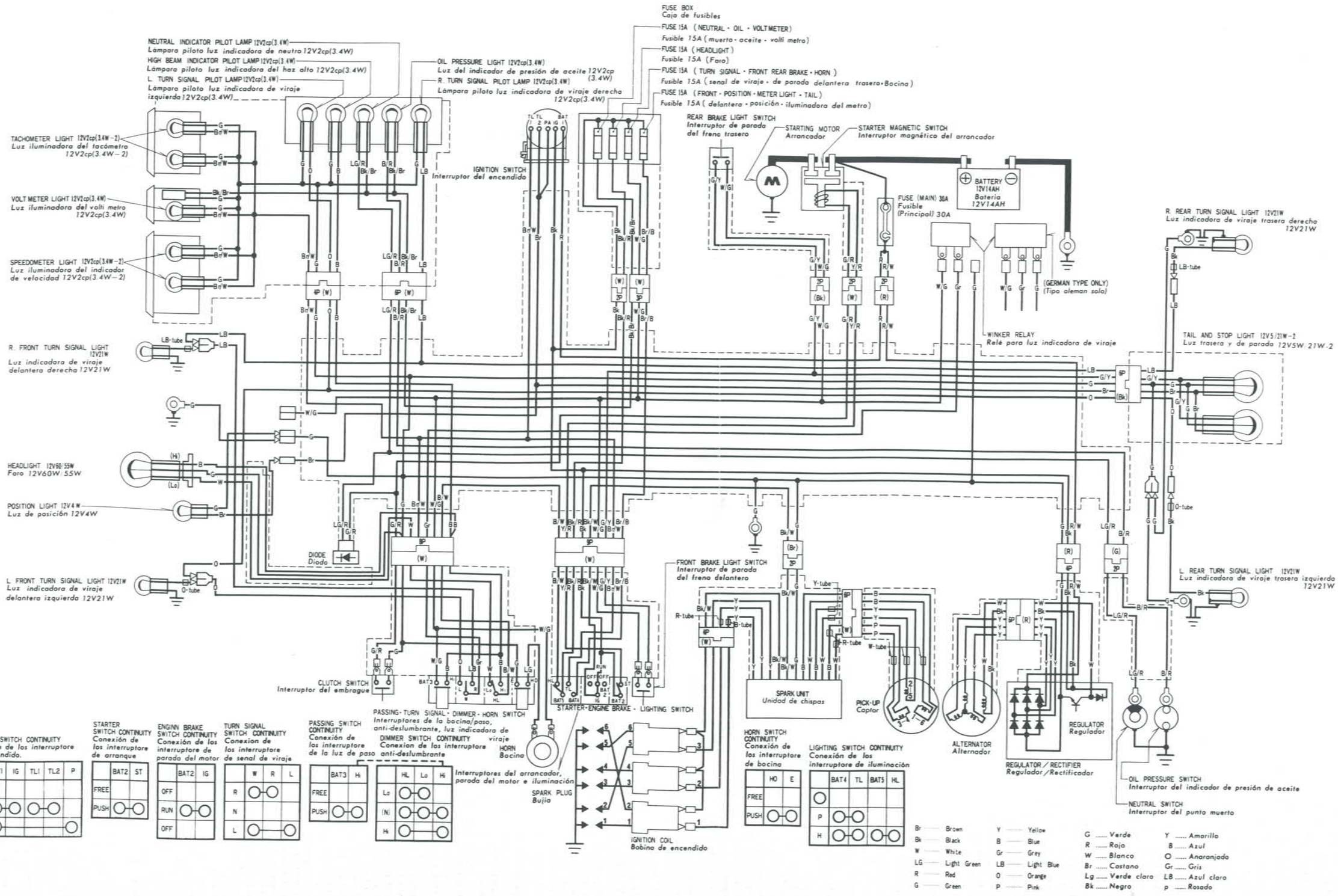
- COMMON TOOL

Tool Name	Part No.	Q'ty	Appropriation List (Common tool → Special tool)		Ref. Page
Float level gauge	07401–0010000	1			4–9
Pin spanner	07702–0010000	1			14–4, 14–7
Retainer wrench (A)	07710–0010100	1			14–4. 14–7
Retainer wrench (C)	07710–0010300	1	Bearing retainer wrench	07910–3930000	13–15, 13–17
Retainer wrench body	07710–0010400				13–15, 13–17, 14–4, 14–7
Lock nut wrench socket (26 x 30 mm)	07716–0020202	1			13–25, 13–28
Extension bar	07716–0020500	1			13–25, 13–28
Universal holder	07725–0010101	1	Flywheel holder	07923–0400000	8–3
Valve guide remover (5.5 mm)	07742–0010100	1	Valve guide driver	07942–3290100	6–15, 6–16
Bearing driver outer (32 x 35)	07746–0010100	1	Bearing driver	07945–4150200	16–7
Bearing driver outer (37 x 40)	07746–0010200	1			12–15, 16–7
Bearing driver outer (42 x 47)	07746–0010300	1	Bearing driver	07946–9350000	13–17
Bearing driver outer (52 x 55)	07746–0010400	1	Bearing driver	07946–3290000	12–16, 14–6
Bearing driver outer (62 x 68)	07746–0010500	1	Bearing driver	07946–3600000	14–6
Bearing driver handle (C)	07746–0030100	1			11–13, 12–16
Bearing driver inner (25 mm)	07746–0030200	1			12–16
Bearing driver inner (30 mm)	07746–0030300	1			11–13
Bearing driver pilot (15 mm)	07746–0040300	1			13–17
Bearing driver pilot (20 mm)	07746–0040500	1			14–6
Bearing driver pilot (25 mm)	07746–0040600	1			12–15, 12–16, 14–6
Front fork oil seal driver body	07747–0010100	1			13–22
Front fork oil seal attachment (E)	07747–0010600	1	Fork seal driver	07947–3290000	13–22
Bearing driver handle (A)	07749–0010000	1	Driver handle attachment	07949–6110000	12–15, 12–16, 13–17, 13–29, 14–6, 16–7
Valve spring compressor	07757–0010000	1	Valve spring compressor	07957–3290001	6–12, 6–18
Shock absorber compressor	07959–3290001	1			14–9, 14–10

HONDA CB X

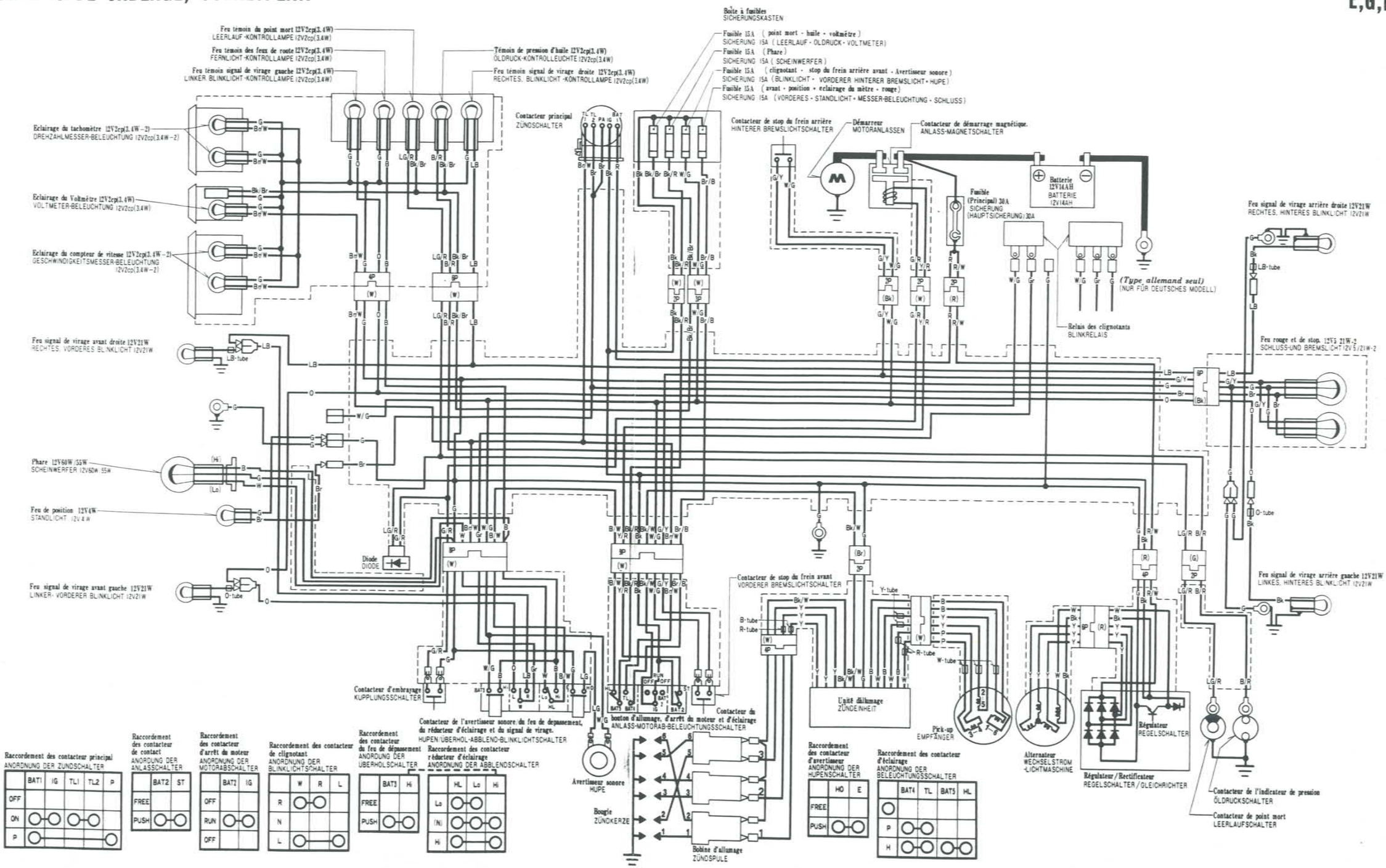
WIRING DIAGRAMS, DE LOS HILOS DE DISTRIBUCION

E,G,F,ED



0030Z-422-6000 ①

SCHEMAS DE CABLAGE, SCHALTPLAN

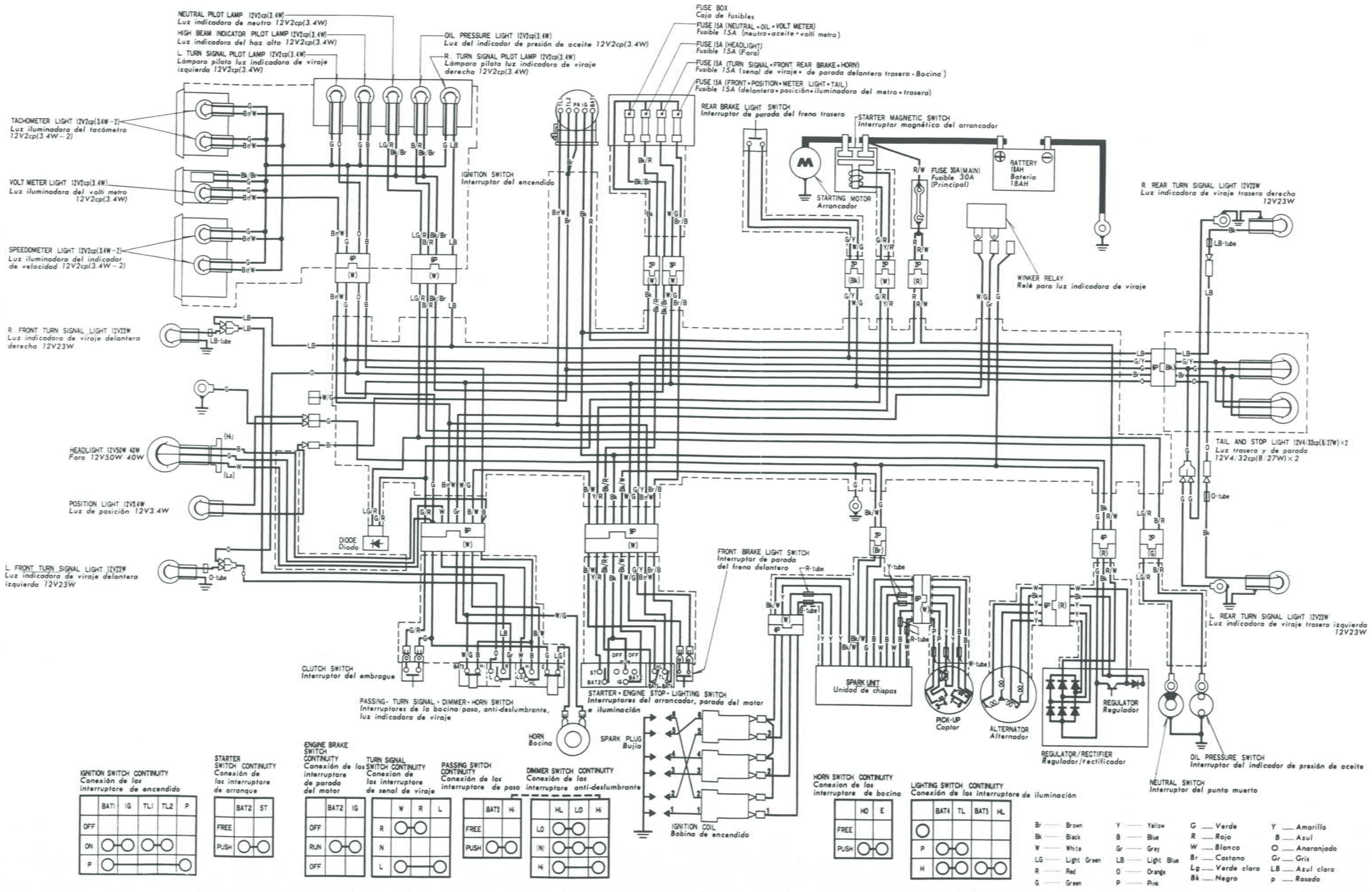


Br ..... Brun
W ..... Blanc
LB ..... Bleu clair
P ..... Rose
Y ..... Jaune
Gr ..... Gris
R ..... Rouge
Bk ..... Noir
LG ..... Vert clair
O ..... Orange
B ..... Bleu
G ..... Vert

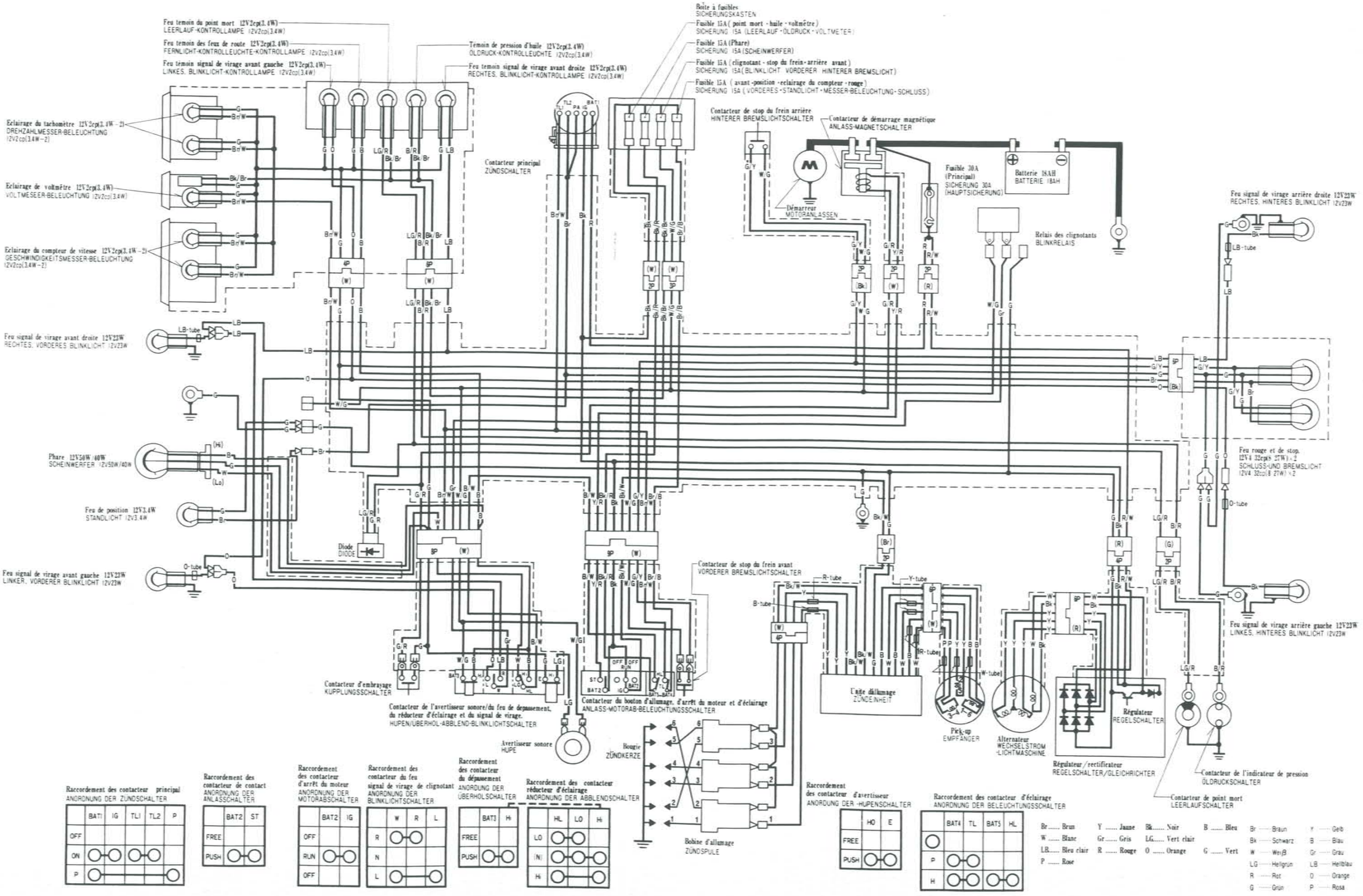
Br ..... Braun
Bk ..... Schwarz
W ..... Weiß
LG ..... Hellgrün
R ..... Rot
G ..... Grün
Y ..... Gelb
B ..... Blau
Gr ..... Grau
LB ..... Hellblau
O ..... Orange
P ..... Rose

WIRING DIAGRAMS, DE LOS HILOS DE DISTRIBUCION

DK,DM,U,SA

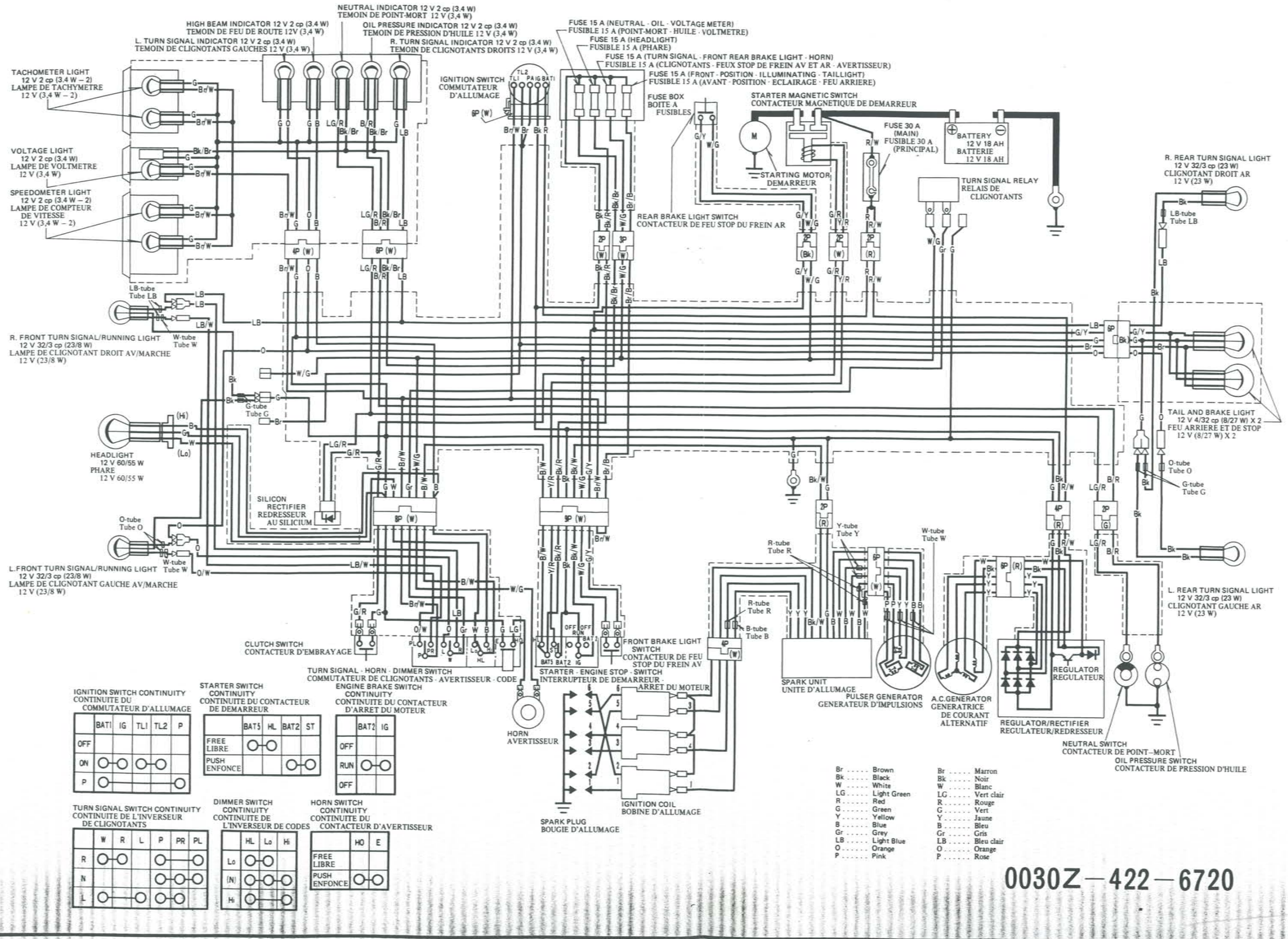


SCHEMAS DE CABLAGE, SCHALTPLAN

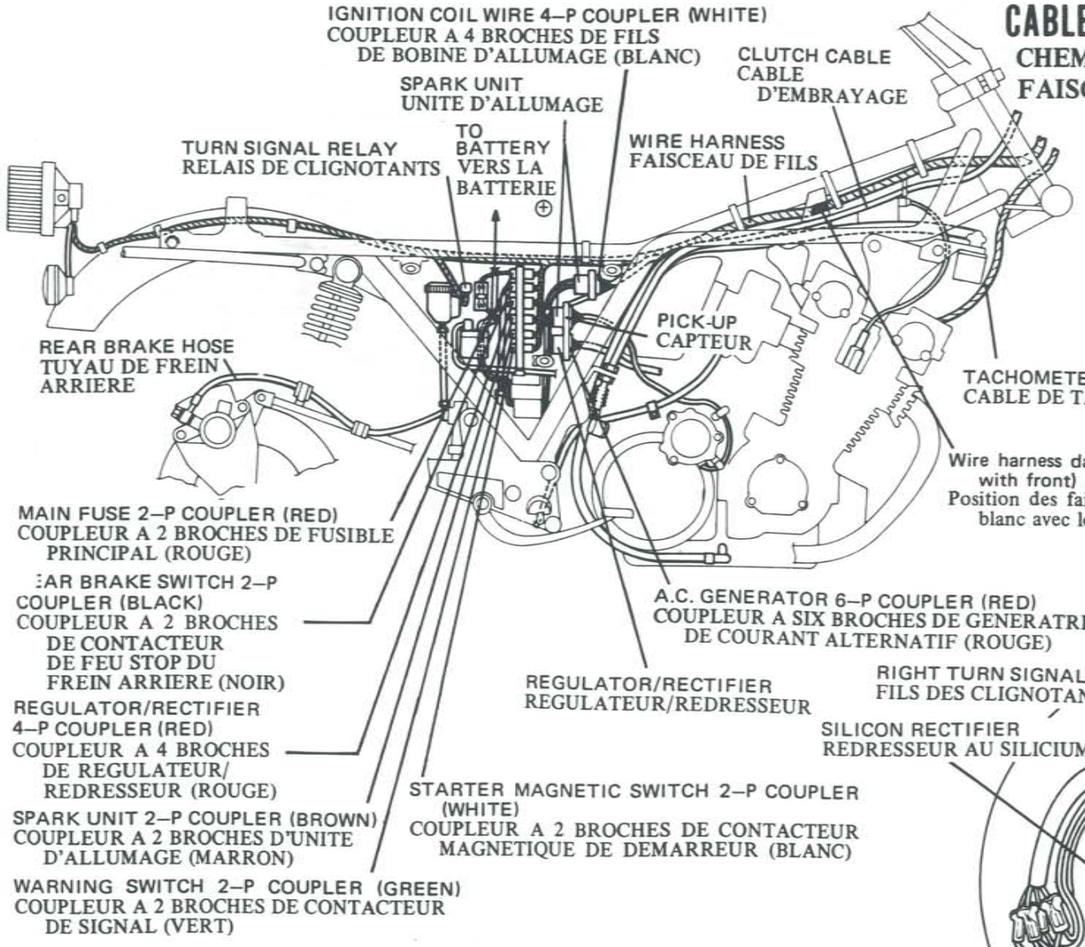


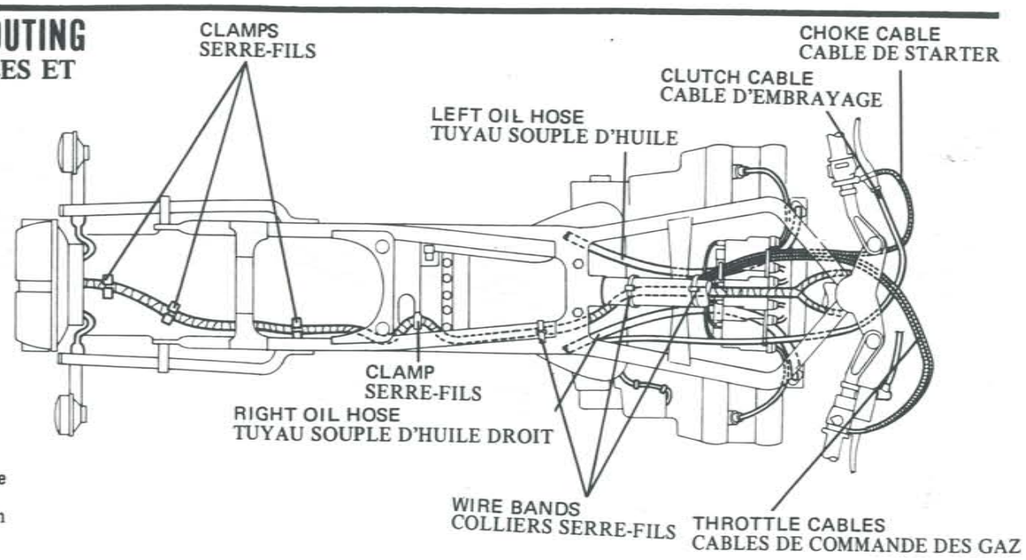
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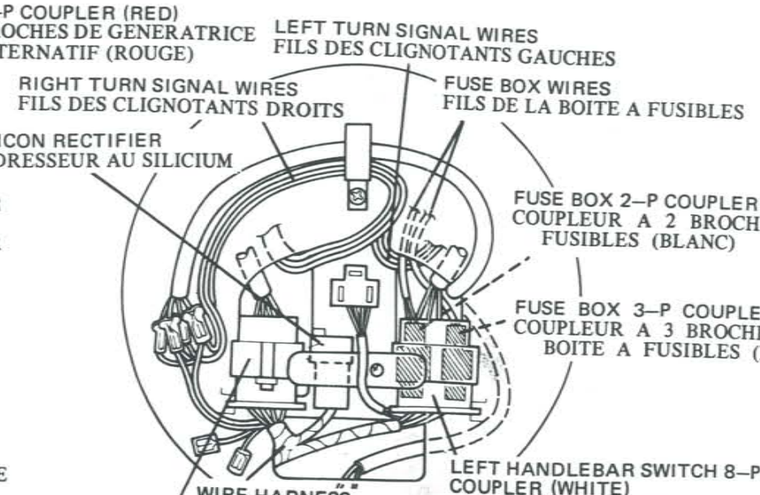
WIRING DIAGRAMS, SCHEMAS DE CABLAGE

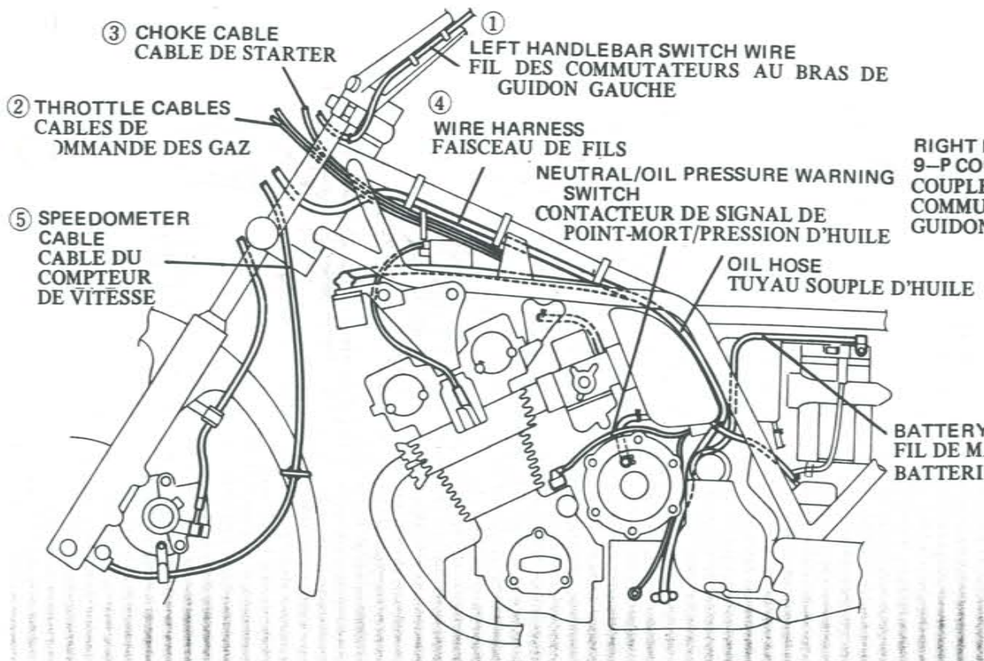


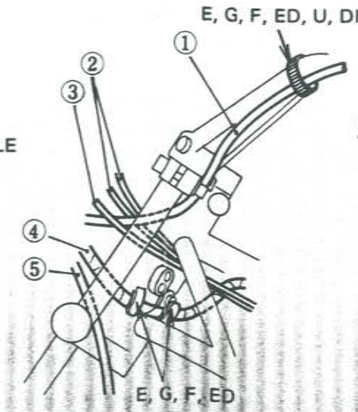
CABLE AND HARNESS ROUTING
CHEMINEMENT DES CABLES ET FAISCEAUX DE FILS

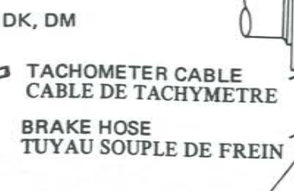


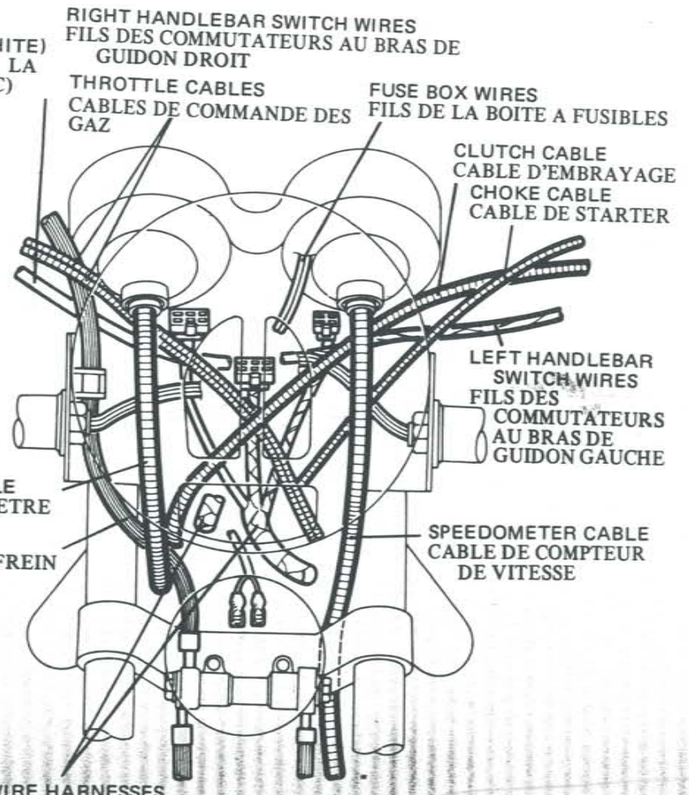




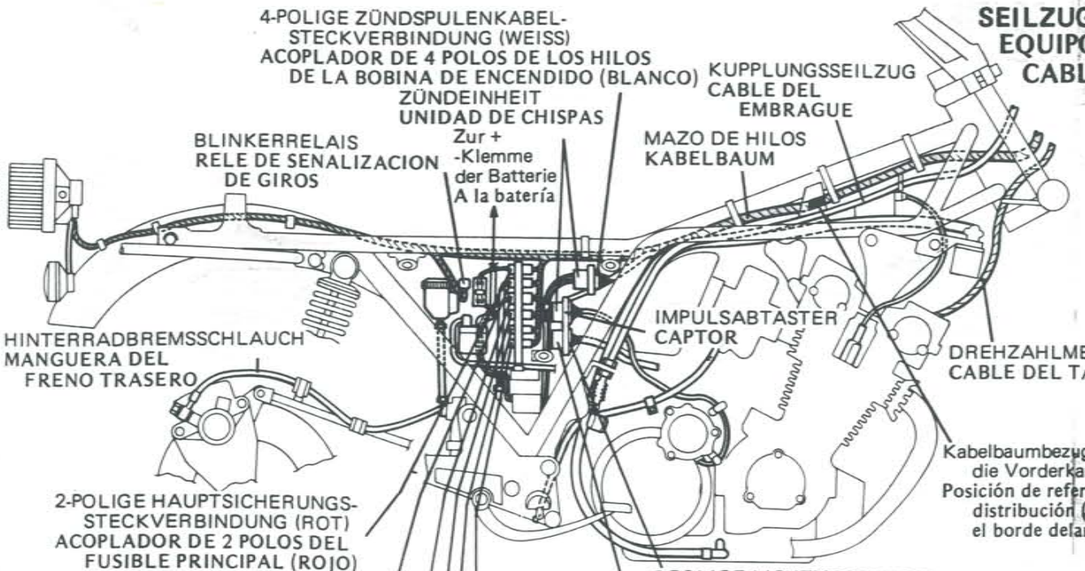


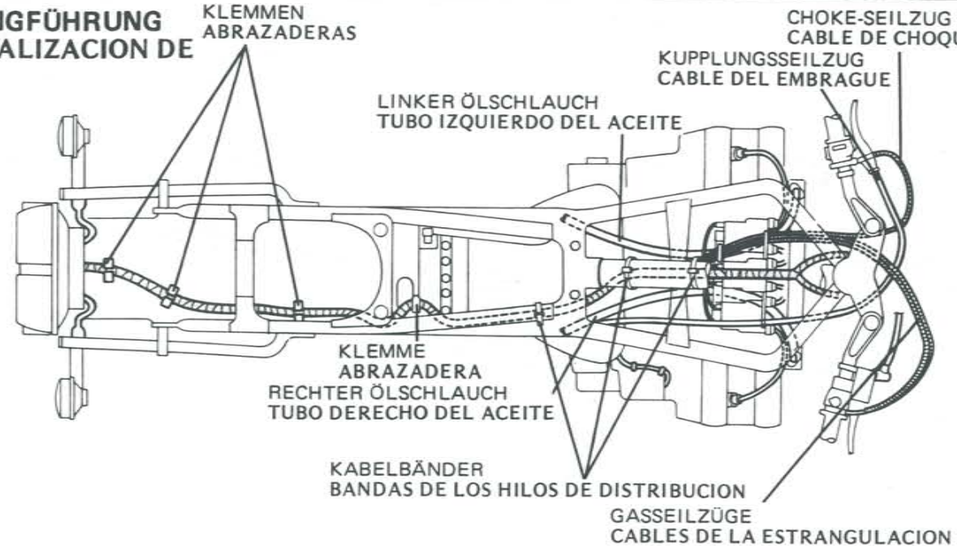


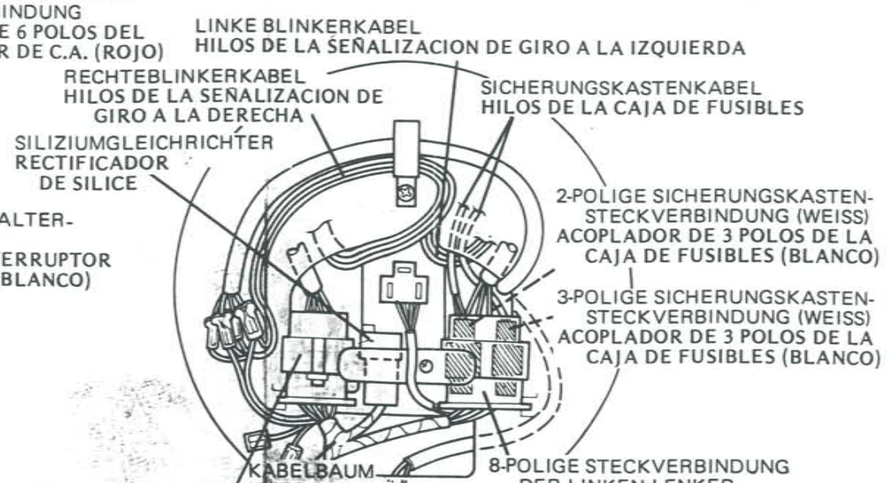


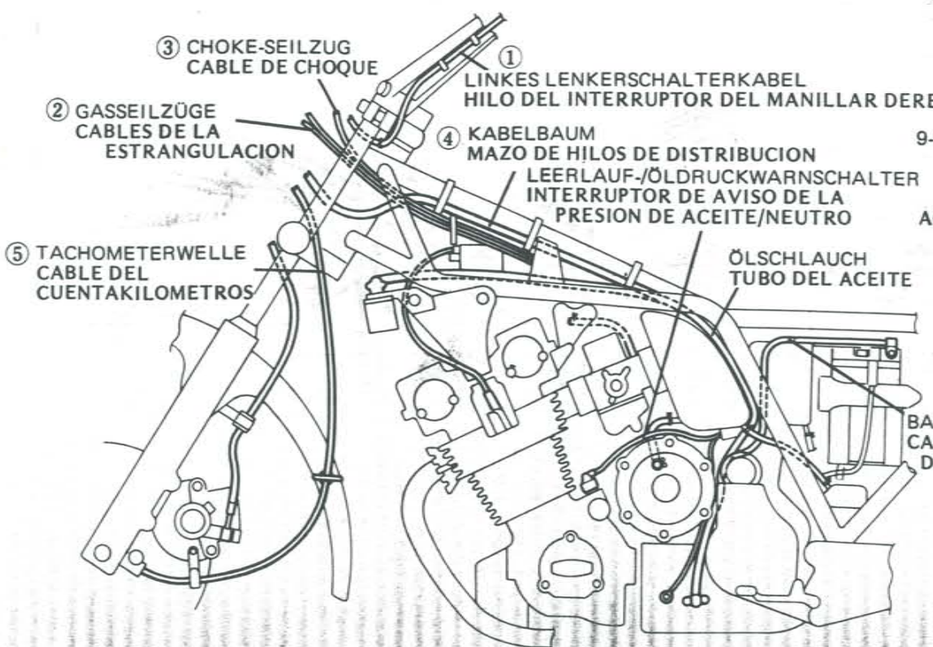


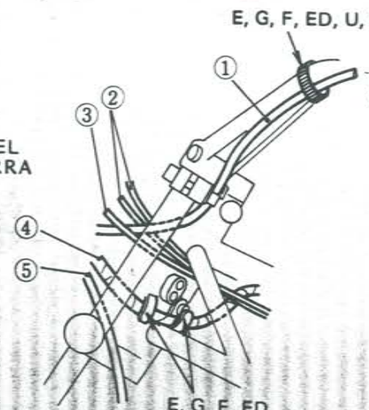
SEILZUG- UND KABELSTRANGFÜHRUNG
EQUIPO ELECTRICO Y LOCALIZACION DE CABLES

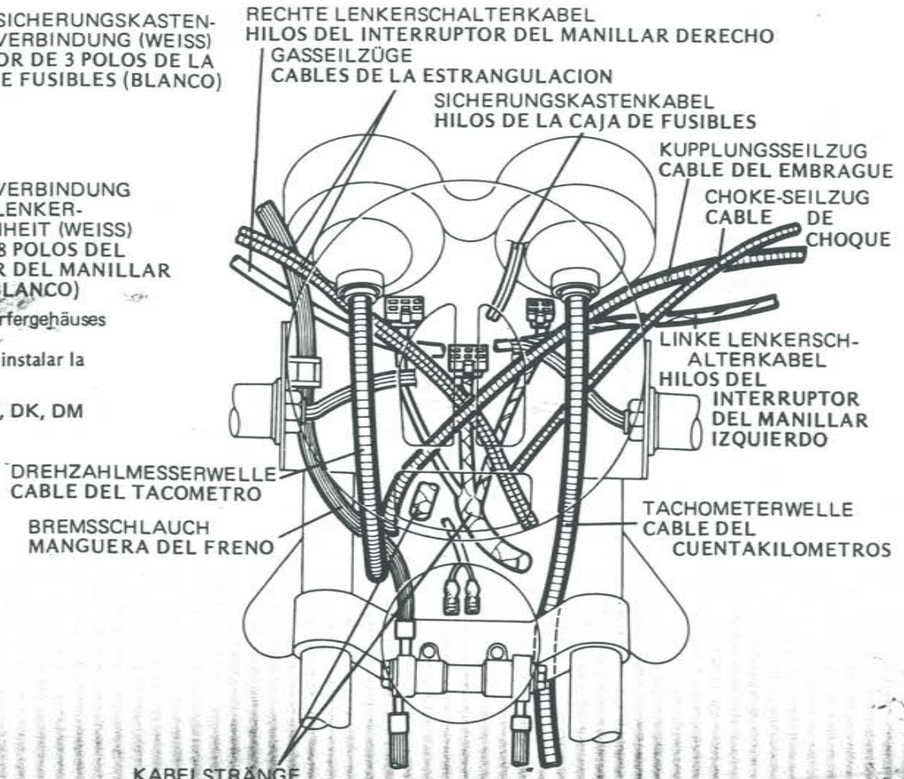












MAINTENANCE SCHEDULE

Perform the PRE-RIDE INSPECTION in the Owner's Manual at every maintenance period.
I : INSPECT, CLEAN, ADJUST, LUBRICATE, OR REPLACE IF NECESSARY.
C: CLEAN
R: REPLACE
A: ADJUST
L: LUBRICATE

		ITEM / FREQUENCY	WHICHEVER OCCURS FIRST ➡ / EVERY ⬇	ODOMETER READING [NOTE (2)] 600 mi. (1,000 km)	3,750 mi. (6,000 km)	7,500 mi. (12,000 km)	11,250 mi. (18,000 km)	15,000 mi. (24,000 km)	18,750 mi. (30,000 km)	Refer to
EMISSION RELATED ITEMS		ENGINE OIL	YEAR	R	R	R	R	R	R	Page 2- 2
		ENGINE OIL FILTER	YEAR	R	R	R	R	R	R	Page 2- 2
	*	ENGINE OIL SCREEN					C			Page 2- 3
		AIR CLEANER	NOTE (1)		C	C	C	C	C	Page 3- 2
	*	FUEL LINES			I	I	I	I	I	Page 3- 3
		SPARK PLUGS			I	R	I	R	I	Page 3- 4
	*	VALVE CLEARANCE		I	I	I	I	I	I	Page 3-10
	*	IGNITION TIMING		I	I	I	I	I	I	Page 3- 5
	*	CAM CHAIN TENSION		A	A	A	A	A	A	Page 3-14
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	*	CARBURETOR IDLE SPEED		I	I	I	I	I	I	Page 3- 9
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NON-EMISSION RELATED ITEMS		DRIVE CHAIN		I, L EVERY 600 mi. (1,000 km)						Page 3-16
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** IN THE INTEREST OF SAFETY, WE RECOMMEND THESE ITEMS BE SERVICED **ONLY** BY AN AUTHORIZED HONDA DEALER.
* SHOULD BE SERVICED BY AN AUTHORIZED HONDA DEALER, UNLESS THE OWNER HAS PROPER TOOLS AND SERVICE DATA AND IS MECHANICALLY QUALIFIED.

NOTES: (1) SERVICE MORE FREQUENTLY IF OPERATED IN DUSTY AREAS.
(2) FOR HIGHER ODOMETER READINGS, REPEAT AT THE FREQUENCY INTERVAL ESTABLISHED HERE.