

4519 487 09 151

**EDITION 1994** 

OWNER'S MANUAL SPARE PARTS LIST

## MOTORCYCLE

type 125/488.4.5 type 180/487.4.5



# SUPPLEMENT for

## OWNER'S MANUAL SPARE PARTS LIST

451 9 487 09 151

**EDITION 1994** 

50,

The following is given in this technical information:

- introduction of a new motorcycle ČZ 125/488.4 and 180/487.4 into production as from April 1, 1994
- coloured versions of motorcycles
- motorcycles and spare parts ordering
- description of contactless ignition system supplement to operating instructions

www.cezetmania.info

- description of the oil pump MIKUNI
- supplement of spare parts to contactless ignition system and the oil pump
- description, adjustment and repairs of MIKUNI oil pump

New version of motorcycles ČZ 125/488.4 and 180/487.4 with 12 V electric installation - contactless ignition system DUCATI and MIKUNI oil pump is introduced into production starting from April 1, 1994.

This new ignition cannot be mounted into the older version of motorcycles /a change of the right crank pin of crank mechanism/.

MOTORCYCLE	COLOURED	VERSION				125/488. <sub>4</sub> 180/487 <sub>4</sub>
	178	m Kin	MOTORCYCLE - dis	k brake 451 211 451 211		Mayer II
125/488.	488 07	025 CV.M	488 07 035 CN	488 07 045 ST.M		488 07 095 MM
180/487.4	487 07	025 ČV.M	487 07 035 ČN	487 07 045 ST.M	488 07 085 B	487 07 095 MM
			MOTORCYCLE - dru	ım brake 451 211 451 211	488 40 0 125cc 487 40 0 180cc	
125/488. 4.00		125 CV.M		488 07 145 ST.M	488 07 185 B	488 O7 195 MM
180/487.4:00	487 07	125 ČV.M	487 07 135 ČN	487 07 145 ST.M	487 07 185 B	487 07 195 MM
ĆV.M - red R.M. pain		čn - 1 B.		- silver metallic paint	B - white W.	MM - blue  B.M metallic  paint

mentions - meses moletanol suslement www.cezetmania.info - supplement of spers parts to contactless ignition serve amelgasion - contactinami NO PORCEOUS

- introduction of a new motorwycle Of 123/488.; and 180/487.4 into production as iron

Fig. 1 Motorcycle ČZ 125/488.4 - ČZ 180/487.4

### SPARE PARTS ORDERING:

Coloured parts: according to table of motorcycle coloured version:

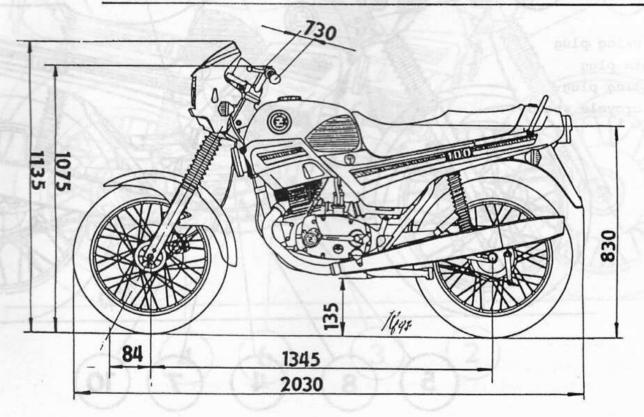
front mud guard 487 43 042 00

front mud guard ČV.M. - drum brake

www.cezetmania.info

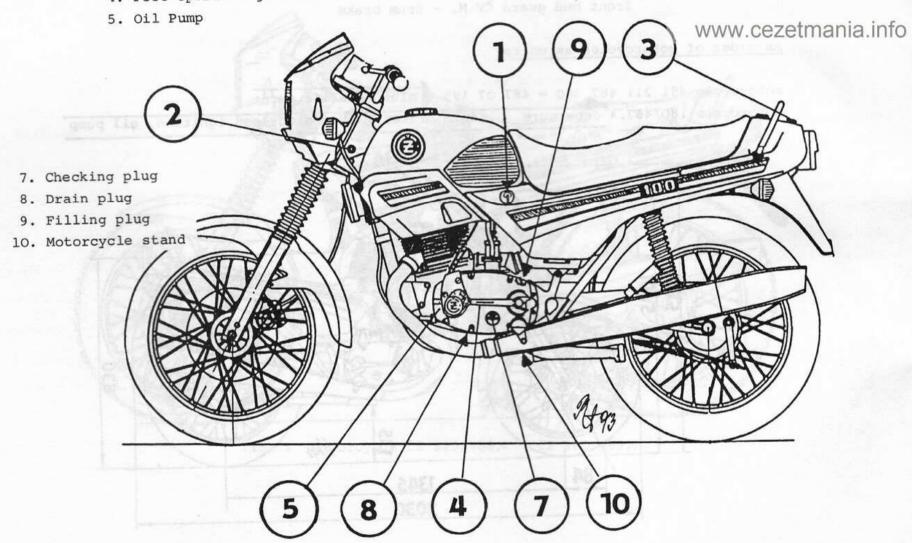
## An order of motorcycles as units:

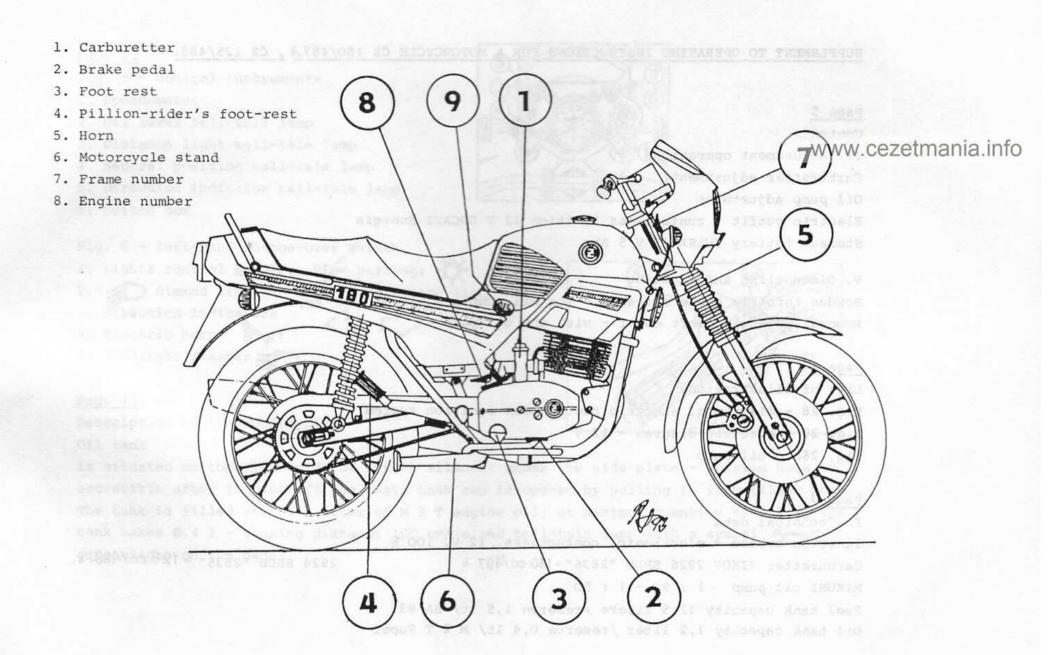
motorcycle 451 211 487 400 - 487 07 195 blue metallic paint
motorcycle 180/487.4 departure , drum brake, 12 V contactless ignition, oil pump



1. Fuel cock Fig. 3

- 2. Steering lock 3. Seat lock olars temples stoyphism to make he principle terms to make the principle of th
- 4. Foot-operated gear lever





## SUPPLEMENT TO OPERATING INSTRUCTIONS FOR A MOTORCYCLE ČZ 180/487.4, ČZ 125/488. 4

#### Page 5

Contents

www.cezetmania.info

IV. Adjustment operations
Carburetter adjustment
Oil pump adjustment
Electric outfit - contactless ignition 12 V DUCATI Energia
Storage battery YUASA 12 V/5 Ahr

V. Dismantling and mounting
Bowden throttle cable exchange - for oil pump
Removal of engine left cover - with the oil pump

## Page 6

List of illustrations

Fig. 28 - diagram of electric contactless ignition system

Fig. 29 - electric diagram - 12 V

Fig. 26a - oil pump

## Page 7

I. Technical data

Ignition system - electronic, contactless, 12 V, 100 W

Carburetter JIKOV 2926 SBDb "2836"-180 cc/487. 4

MIKUNI oil pump 1: 90 - 1: 50

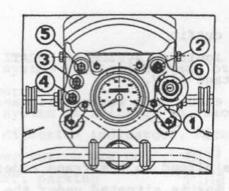
Fuel tank capacity 12,5 liters /reserve 1,5 lt/ BA 93

Oil tank capacity 1,2 liter /reserve 0,4 lt/ M 2 T Super

2924 SBDb "2835" - 125 cc/488. 4.

Fig. 5 - control instruments

- 1. Speedometer
- 2. Oil level tell-tale lamp
- 3. Distance light tell-tale lamp
- 4. Neutral position tell-tale lamp
- 5. Direction indicator tell-tale lamp
- 6. Switch box



www.cezetmania.info

Fig. 6 - left-hand change-over switch

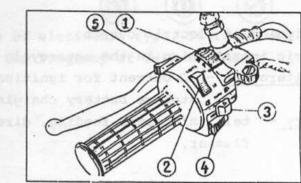
1. Lights control OFF; PD parking; distance light

2. dimmed light,

3. Direction indicators

4. Electric horn

5. Headlight flasher ==



## Page 13

Description of the motorcycle

Oil tank

is situated on the right side of intake silencer under the side plate - pouring hole is accessible after tilting off the seat; tank cap is opened by pulling it from filler neck. The tank is filled with 1,2 liter of M 2 T engine oil; at minimum quantity of oil in the tank makes Ø,4 1 - running distance 100 km/ a red tell-tale lamp with a symbol gets alight on the panel.

Description of electric outfit

Contactless, electronic ignition system of DUCATI trade mark. The alternator rated output makes 100 W, voltage 12 V.

Voltage regulator is of electronic workmanship and is located on the left side of intake silencer. WWW.Cezetmania

The electronic switch is placed on the frame under the fuel tank /ignition coil/.

The accumulator 12 V, 5 Ahr is situated under the seat; it is connected to frame by negative pole /-/. Two fuses 8 A are placed in a sleeve in the vicinity of the accumulator.

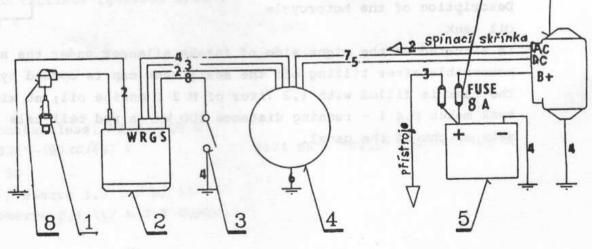
Description of electric outfit:

Electric installation in the motorcycle has 2 independent circuits.

The alternator - AC current for ignition system and lighting, for day and night ridestorage battery charging

Battery - tell-tale lamps feeding, direction indicators, horn, stop lights and headlight flasher.

1.	Spark plug	100	al onti
	Ignition coil		Green
	Switch box		Red
	Battery		White
	Fuse 8 A		Brown
		6.	Black
	Regulator	7.	Yellow
8.	Terminal		Blue
4.	Source 12/100 W		20 0.0



Switch box key position

Key is pushed down completely OFF - ignition system is disconnected, other sources are without current



ON - ignition system is switched on, storage battery is www.cezetmania.info charged; direction indicators, horn and lamps change-over switch are on

CPÍRACÍ SEÁÍSEA

Fig. 13 - switch box position

Direction indicator lamps breaker  $12 \text{ V/2} \times 10 + 20 \text{ W}$  is of electronic type. It is placed behind the headlight. In case that one lamp falls out, the frequeny of tell-tale lamp flashing is doubled.

Spark plugs - PAL N 15C or N 15

Lamps - headlight - double filament 12 V/45/40 W R 2

- parking 12 V/4 W Ba 9s
- tail light 12 V/4 W Ba9S 2x
- brake light 12 V/21 W Bal5s
- direction light 12 V/10 W Bal5s
- tail lamps and instrument board illumination 12 V/2 W Ba9s

## Page 18

Note: the highest permissible speeds do not mean permanent speeds; they are used mainly at the beginning for a short period. At that time we employ a mixture of fuel and petrol BA 90 with oil M 2 T Super.

Proportion of lubrication /a mixture fuel-oil/ is ensured by MIKUNI pump in the range of engine speed in proportion 1: 90 - 1: 50.

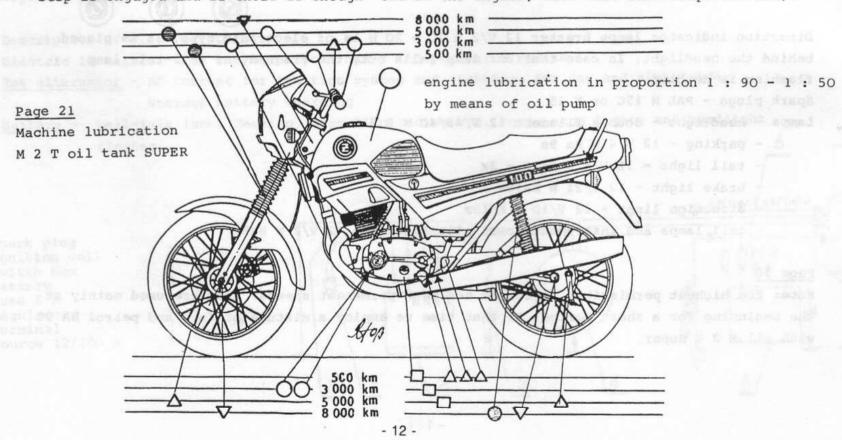
Permanent speed, i. e. on express highway is 95 km/hr. for the engine 180 cu.cm; 85 km/hr. for 125 cu.cm.

## www.cezetmania.info

#### Page 19

Engine start

2. Push the key into the switch box in "OFF" position and turn it to position "ON" the neutral green tell-tale lamp and the other pilot lamp get alight; /when any gear
step is engaged and if there is enough oil in the engine, both tell-tale lamps die out/.



Oil pump adjustment

a/ After preliminary operations /accumulator, chains and bolts check-up/ it is necessary to fill the oil tank with oil.

Inland: in summer, in winter M 2 T, CASTROL TTS
Abroad: in summer, in winter SAE 30-40, CASTROL TTS

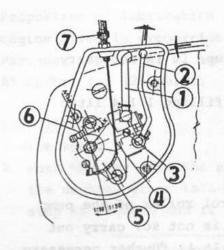
oil filling 1 1/4 liter

www.cezetmania.info

- b/ Unscrew the pump cover lid.
- c/ Check up Bowden cables length, at first visually whether the control roller of the pump is turned by its gauge mark /cut/ to the boss on pump body. If it is not so, carry out the adjustment of this position by means of adjustment screw /7/. It is further necessary to check whether the second Bowden cable, leaned against the adjustment screw of carburetter lid, has clearance of about 1 mm. Adjust the clearance of throttle handle by means of adjustment screw on the sleeve /3-4/ about 1 mm.
- d/ Dismantle the breathing screw /3/ from the pump front side and blow off pipeline from the tank to the pump.

Provided that oil without air bubbles flows through the pump hole, close deaeration system. Pour a mixture of 1 liter of petrol with 2 % of specified oil /M 2 T/ at the engine newly introduced into operation, and start the motorcycle /in case of already employed engine,

- /it is no longer necessary to add oil into petrol/ and let the engine running at idle motion. Turn the pump roller manually to MAX position and hold it in this position until the oil column in delivery piping from the pump fills the piping up to suction port. Then the adjustment process is finished; it is further recommended to check up the adjust of cable guides after setting up the pump roller against the gauge mark.
- e/ Cover the pump with covering lid.



- 1. Oil supply to the pump
- 2. Oil delivery from the pump
- 3. Deaerating screw
- 4. Pump control Bowden cable
- 5. Oil pump roller
- 6. Checking gauge mark for adjustment
- 7. Adjusting screw



1 ruber cover

2 throttle Bowden cable

3-4 adjusting screw

## Page 39, 40, 41 - dropped the will be a second to the seco

Advanced ignition adjustment is not carried out. Advanced ignition is fast adjusted at the manufacturing plant.

## Page 41

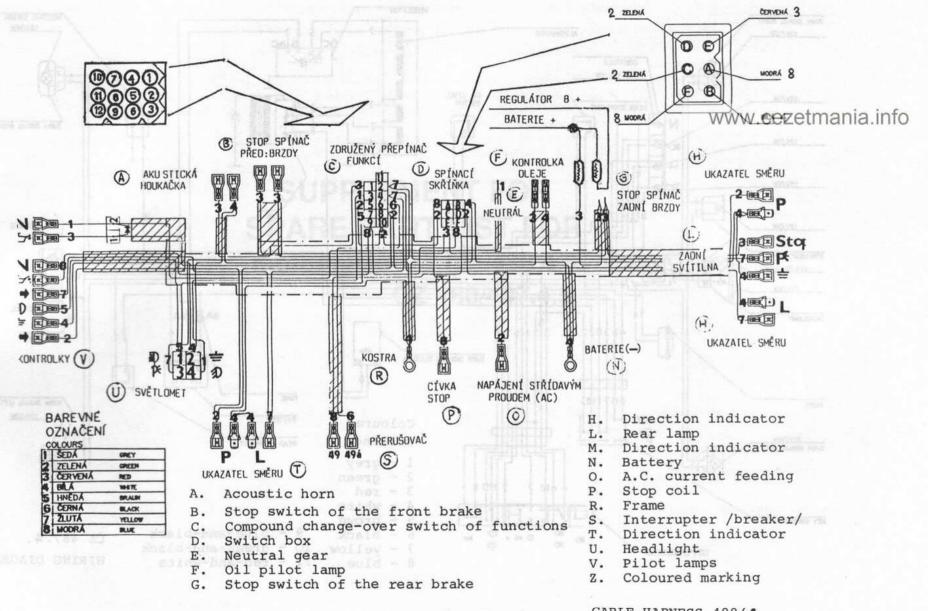
Storage battery - 12 V/5 Ahr.

## Checking alpan and Ja-Ar & Marking Mineral No as the Marking to a result I to assess a super

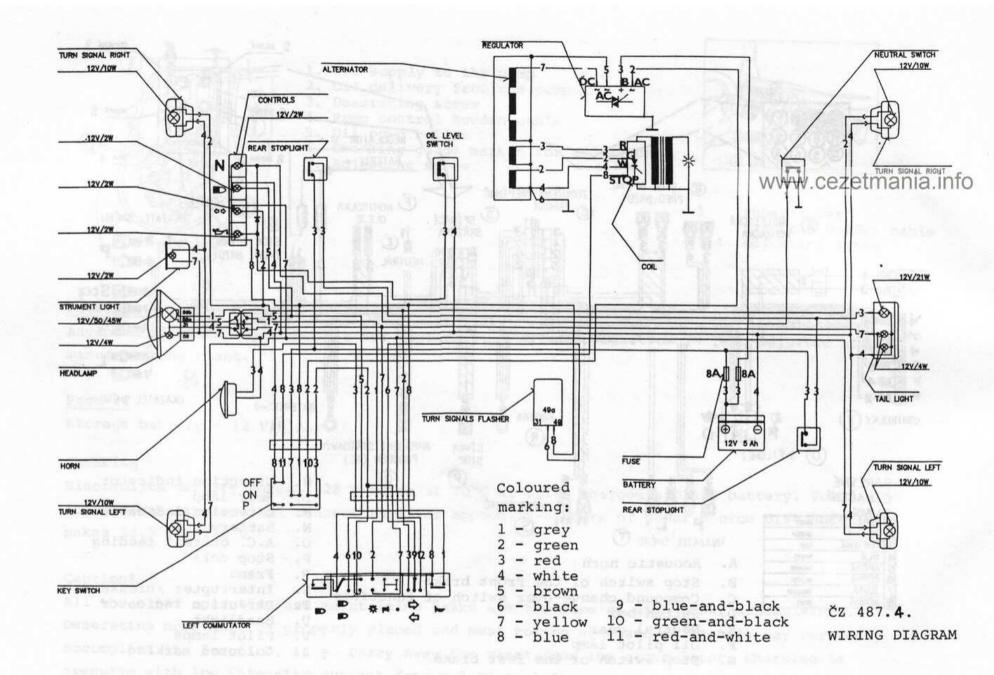
Electrolyte density makes 1,28 g/cu.cm at 20°C at fully charged storage battery. Voltage on storage battery terminal connectors after approx. 5-6 hours of power source disconnection makes 12,5 to 12,6 V.

## Caution! The will be Cartico V between your Test you at the total water as a section of a section in the case of the contract of the case of the case

All the other operating and maintaining tasks are the same as with other accumulators. Deaerating hose must be properly placed and must not be squeezed so that it may correctly accomplish its function, i. e. carry away the gases from the accumulator. Charging is executed with low intensity current from 0,5 up to 1 A.



CABLE HARNESS 488/4



www.cezetmania.info

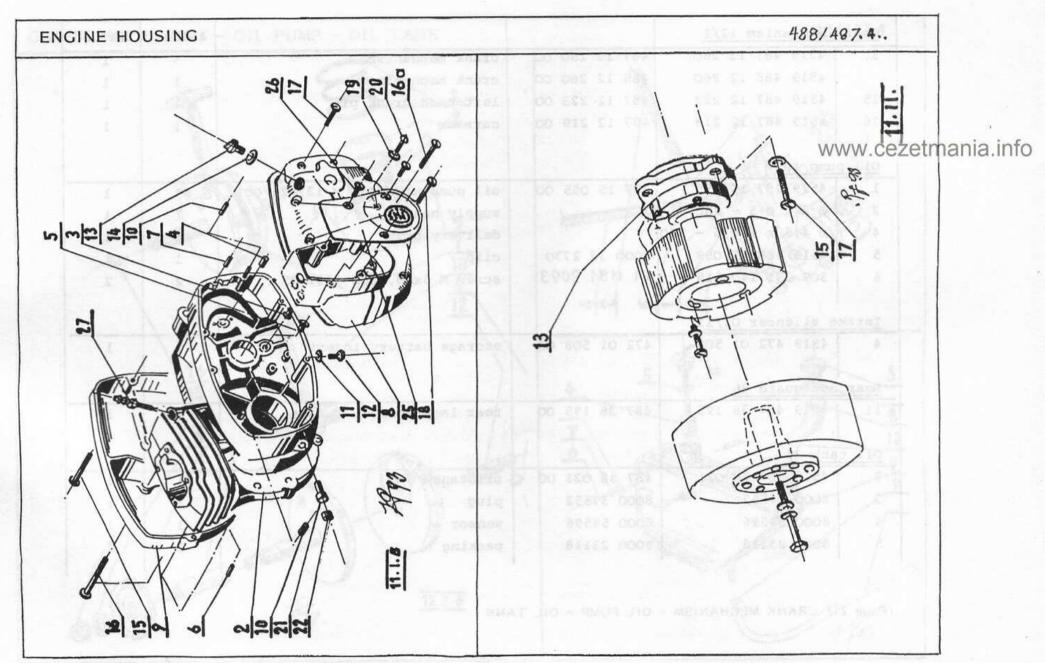
## SUPPLEMENT FOR SPARE PART LIST FOR motorcycle ČZ 125/488.4.5 ČZ 180/487.4.5

SUPPLEMENT to the list of spare parts for motorcycle

ČZ 180/487.4 12 V electrical installation, oil pump - as from April. 1, 1994

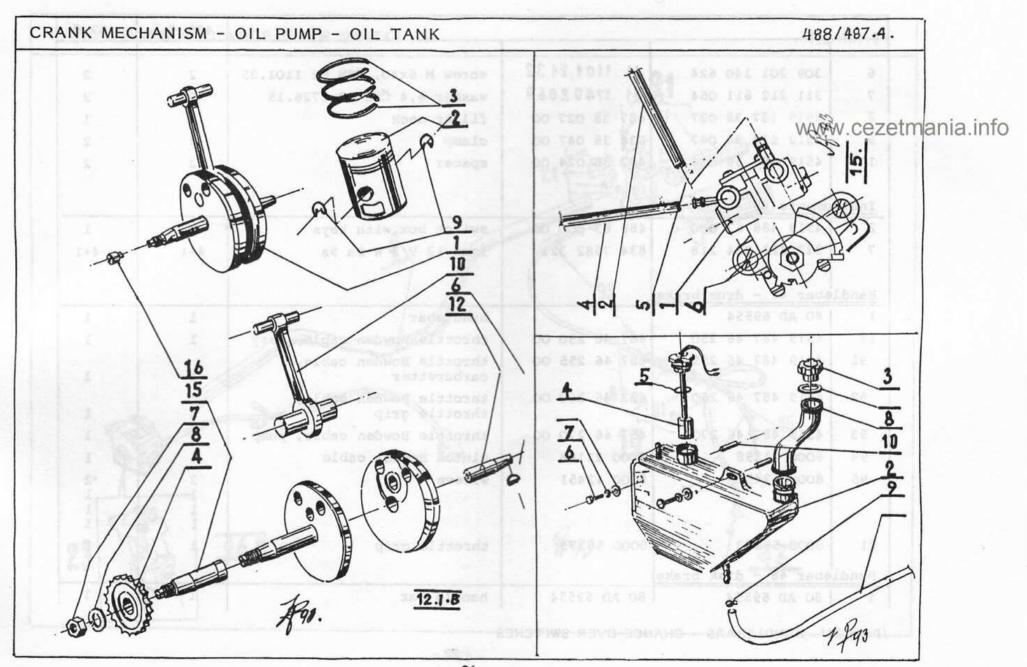
ČZ 125/488.4 12 V electrical installation, oil pump - as from April 1, 1994

<u> </u>		_		THE PERSON									/ww.ceze	tman
CZ 18 ČZ 12	30/487 25/488	.4.	451 451	211	487 488	400	) ]	2 V	con	actless ignition, oi actless ignition, oi	il pump, drum il pump, drum	brake brake		
Engin	e hou	sing	11,	<u>/I</u>						I NAMAJA!	4US	488.4	487.4	
2 8 16a 25 26 27	4519 4519 4519 4519 309 4519 309 4519	488 487 487 231 487 255 487	10 11 430 11 140	270 200 176 624 177 514 180		488 487 487 60 487 61	10 11 11 131 11 415	270 200 176 21 177 5 20	00 00 00 00 30 00 92	engine 180 - 12 V, engine 125 - 12 V, engine housing left-hand cover screw M 6x40, ČSN C lid screw M 5x16, ČSN C terminal	oil pump	1 1 1 1 1 1 3 1	1 1 1 1 1 3 1	
13 15 17	4519 309 311	487 231	11 140	270 511			1131	. 20	00 89 51	stator carrier screw M 5x12, ČSN 0 washer 5,3, ČSN 02	02 1131.25 1740.05	1 3 3 3	1 3 3	



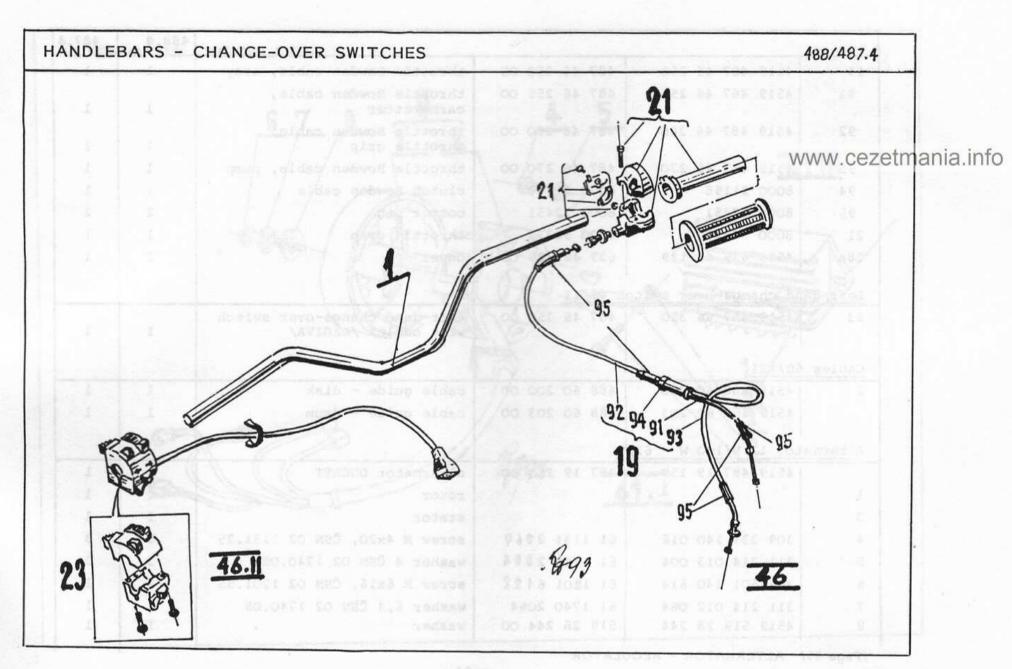
Cran	k mechanism 12/I	Apples Liables	Commence of the partie of the same	488.4	487.4
577	4519 487 12 260	487 12 260 00	crank mechanism	-	1
	4519 488 12 260	488 12 260 00	crank mechanism	1	1
.5	4519 487 12 223	487 12 223 00	left-hand crank pin	1	1
16	4519 487 12 219	487 12 219 00	carrier	www.c	eze <del>t</del> maı
oil	pump 15	13 y contestio			
	4519 487 15 055	487 15 055 00	oil pump MIKUNI 1 M 137-26/001	1	1
2	Ø 2 x Ø 5 - 230		supply hose	1	1
7	Ø 4,5 x Ø 8,5 - 520	93	delivery hose	1	1
	4519 487 15 059	8000 33 2730	clip	1	1
5	309 231 140 515	61 1131 2093	screw M 5x18, CSN 1131.25	2	2
[nta	ke silencer Ol/II	141 00 ATR			
4	4519 472 01 508	472 01 508 00	storage battery insert	1	1/
Rear	mud guard 36				300
11	4519 487 36 195	487 36 195 00	rear lamp holder	1	7 2 <b>1</b>
oil_	tank 38	180 2051 Years	1787	THAS	
2	4519 487 38 021	487 38 021 00	oil tank	1 1	1
3	8000 37552	8000 37552 .	plug	1	1
1	8000 59596	8000 59596	sensor	1	1
5	8000 23118	8000 23118	packing	1	1

/Page 21/ CRANK MECHANISM - OIL PUMP - OIL TANK

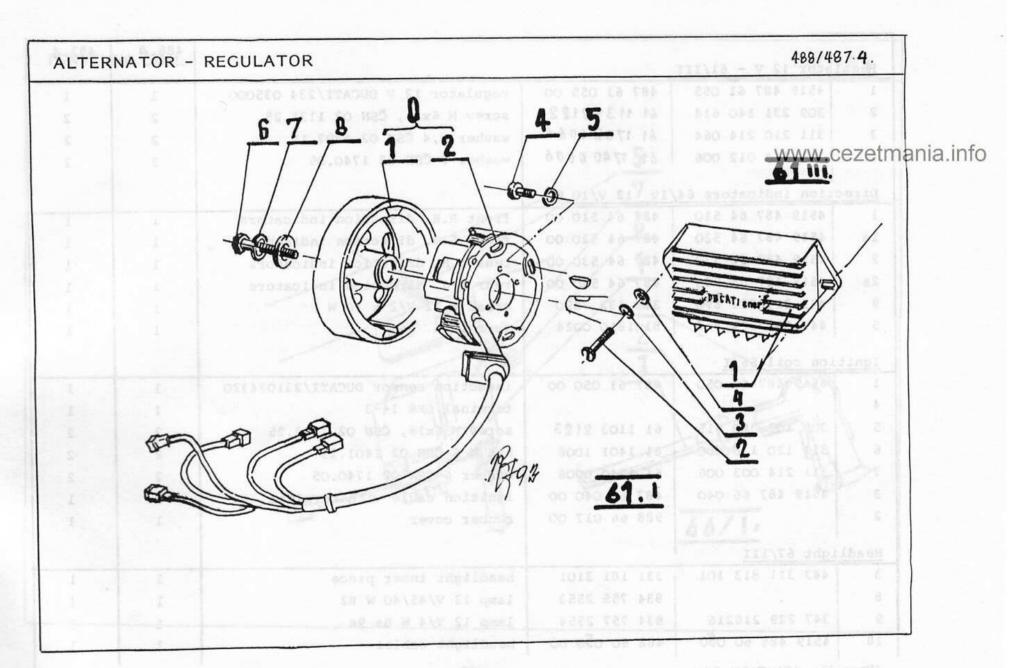


COS.	STATE OF THE STATE		OH PIND - GILLTARK	488.4	487.4
6 7	309 201 140 624 311 212 611 064	61 1101 24 32	screw M 6x40, ČSN 02 1101.25 washer 6,4 ČSN 02 1726.15	2 2	2 2
8	4519 487 38 027	487 38 027 00	filler neck	www.cez	
9	4519 638 38 047	638 38 047 00	clamp	2	2
10	4519 487 38 024	487 38 024 00	spacer	2	2
Instr	ruments 44	80 18 052 GU	1. VEX. 10 3/4	1	1
2	4519 488 63 000	488 63 000 00	switch box with keys	The sales	4+1
7	347 229 234 218	834 7582 321	lamp 12 V/2 W Ba 9s	4+1	411
Hand]	lebar 46 - drum brake		/8/ 8/ 1	1 7	1
1	80 AD 69554		handlebar	1	1
19	4519 487 46 250	487 46 250 00	throttle Bowden cable, assy	1 - 1	1
91	4519 487 46 255	487 46 255 00	throttle Bowden cable, carburetter	1	1
92	4519 487 46 260	487 46 260 00	throttle Bowden cable, throttle grip	1	1
93	4519 487 46 270	487 46 270 00	throttle Bowden cable, pump	1	1
94	8000 21198	8000 21198	clutch Bowden cable	1	1
95	8000 12451	8000 12451	sleeve	2 1 1 1	1 1 1
21	8000 58273	8000 58273	throttle grip	1	1
Hand	llebar 46 - disk brake		handle bar	1	1
1	80 AD 69554	80 AD 69554	l uguate par	1	1041

/Page 23/ HANDLEBARS - CHANGE-OVER SWITCHES

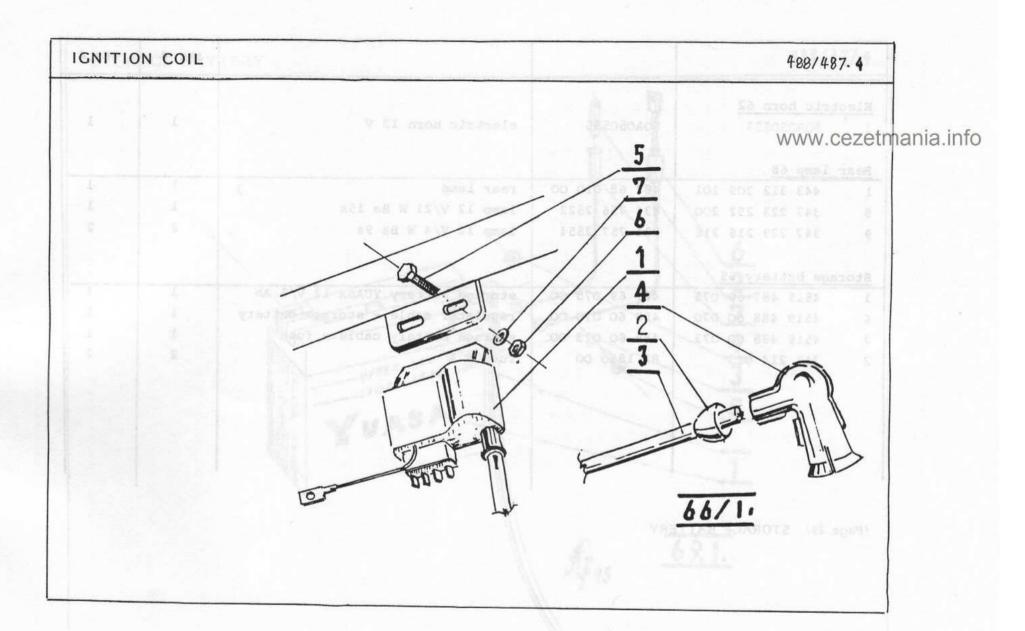


0.5750		2	DAMATHIR STATE OF THE PRINCIPLE OF THE P	488.4	487.4
19	4519 487 46 250	487 46 250 00	throttle Bowden cable, assy	1	1
91	4519 487 46 255	487 46 255 00	throttle Bowden cable, carburetter	1	1
92	4519 487 46 260	487 46 260 00	throttle Bowden cable, throttle grip	ww.dez	∣ etm <del>l</del> ani
93	4519 487 46 270	487 46 270 00	throttle Bowden cable, pump	1	1
94	8000 21198	8000 21198	clutch Bowden cable	1	1
95	8000 12451	8000 12451	cotter pin	2	2
21	8000 58273	8000 58273	throttle grip	1	1
28a	4519 639 46 129	639 46 129 00	cover	1	1
Left-	hand change-over swit		the second secon	+	
23	4519 487 46 350	487 46 350 00	left-hand change-over switch with cables /CAGIVA/	1	1
23	4519 487 46 350			1	1
23 Cables	4519 487 46 350  s 60/III	487 46 350 00	with cables /CAGIVA/		
23 Cables	4519 487 46 350 s 60/III   4519 488 60 200	487 46 350 00 488 60 200 00 488 60 203 00	with cables /CAGIVA/  cable guide - disk	1	1
23 Cables	4519 487 46 350   8 60/III	487 46 350 00 488 60 200 00 488 60 203 00	with cables /CAGIVA/  cable guide - disk	1	1
Cables  Cables	4519 487 46 350   8 60/III	487 46 350 00 488 60 200 00 488 60 203 00	with cables /CAGIVA/  cable guide - disk  cable guide - drum	1	1 1
Cables  Alter	4519 487 46 350   8 60/III	487 46 350 00 488 60 200 00 488 60 203 00	with cables /CAGIVA/  cable guide - disk cable guide - drum  alternator DUCATI	1 1	1 1
Cables  Alter  1	4519 487 46 350   8 60/III	487 46 350 00 488 60 200 00 488 60 203 00	with cables /CAGIVA/  cable guide - disk cable guide - drum  alternator DUCATI rotor	1 1 1 1	1 1 1
23 Cables	4519 487 46 350   8 60/III	487 46 350 00  488 60 200 00  488 60 203 00  1/T  487 19 150 00	with cables /CAGIVA/  cable guide - disk cable guide - drum  alternator DUCATI rotor stator	1 1 1 1 1	1 1 1 1
Cables  Cables  Alter  1  3  4	4519 487 46 350   S 60/III	487 46 350 00  488 60 200 00  488 60 203 00  1/T  487 19 150 00  61 1131 2069	with cables /CAGIVA/  cable guide - disk cable guide - drum  alternator DUCATI rotor stator screw M 4x20, ČSN 02 1131.25	1 1 1 1 1 3	1 1 1 1 1 3
Cables  Cables  Alters  1  3  4	4519 487 46 350   8 60/III   4519 488 60 200   4519 488 60 203   14519 487 19 150   150	487 46 350 00  488 60 200 00  488 60 203 00  1/T  487 19 150 00  61 1131 2069 61 1740 2004	with cables /CAGIVA/  cable guide - disk cable guide - drum  alternator DUCATI rotor stator screw M 4x20, ČSN 02 1131.25 washer 4 ČSN 02 1740.05	1 1 1 1 3 3	1 1 1 1 3 3



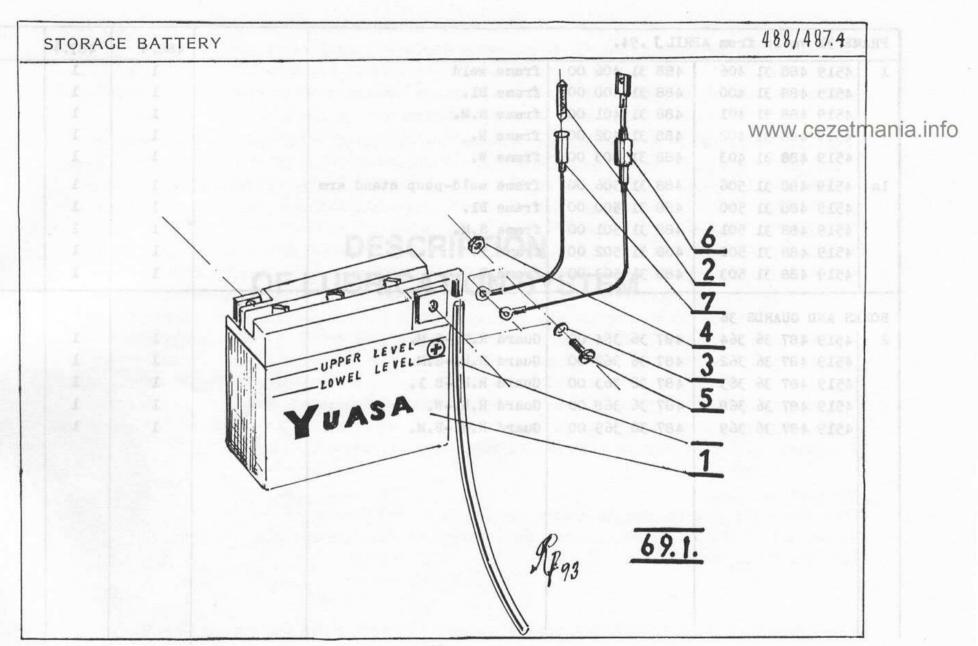
			01.00	488.4	487.4
Regu	nlator 12 V - 61/III		RECULATION	e- Museum	darah
1	4519 487 61 055	487 61 055 00	regulator 12 V DUCATI/234 035000	1	1
2	309 231 140 614	61 1131 2122	screw M 6x16, ČSN 02 1131.25	ww.cezet	man <del>î</del> a in
3	311 210 214 064	61 1702 1064	washer 6,4 ČSN 02 1702.15	2	2
4	311 214 012 006	61 1740 0006	washer 6 ČSN 02 1740.05	2	2
Dire	 ection indicators 64	/IV 12 V/10 W			
1	4519 487 64 510	487 64 510 00	front R.H. direction indicators	1	1
la	4519 487 64 520	487 64 520 00	front L.J. direction indicators	1	1
2	4519 487 64 530	487 64 530 00	rear R.H. direction indicators	1	1
2a	4519 487 64 540	487 64 540 00	rear L.J. direction indicators	1	1
9	443 311 327 890	331 132 7890	breaker 12 V/2 x 10 W	1	1
5	443 859 004 814	81 1810 0024	fuse 15 A	1	1
Tani	ition coil 66/I		4		
1	4519 487 61 050	487 61 050 00	induction sensor DUCATI/231034320	1	1
4		V 100 00 10	terminal OKS 14-3	1	1
5	309 103 380 615	61 1103 2123	screw M 6x18, ČSN 02 1103.25	2	2
5			The state of the s	- 27	2
6	311 120 138 060	61 1401 1006	nut M 6 ČSN 02 1401.25	2	2
	311 120 138 060 311 214 003 006	61 1401 1006 61 1740 0006	nut M 6 ČSN 02 1401.25 washer 6 ČSN 02 1740.05	2 2	2
6		1			-
6 7	311 214 003 006	61 1740 0006	washer 6 ČSN 02 1740.05 ignition cable with terminal rubber cover	2	2
6 7 3 2	311 214 003 006	61 1740 0006 487 66 040 00	washer 6 ČSN 02 1740.05 ignition cable with terminal	2	2
6 7 3 2	311 214 003 006 4519 487 66 040	61 1740 0006 487 66 040 00	washer 6 ČSN 02 1740.05 ignition cable with terminal rubber cover	2	2
6 7 3 2 Head	311 214 003 006 4519 487 66 040 dlight 67/III	61 1740 0006 487 66 040 00 988 66 017 00	washer 6 ČSN 02 1740.05 ignition cable with terminal rubber cover	2 1 1	2 1 1
6 7 3 2 Head	311 214 003 006 4519 487 66 040 dlight 67/III	61 1740 0006 487 66 040 00 988 66 017 00	washer 6 ČSN 02 1740.05 ignition cable with terminal rubber cover headlight inner piece	2 1 1	2 1 1

/Page 27/ IGNITION COIL



	15.5A.867			488.4	487.4
1 '	80A050555	80A050555	electric horn 12 V	/w.cezetr	nania.in
1	443 312 209 101	487 68 010 00	rear lamp	1	1
8	347 223 252 200	834 756 2522	lamp 12 V/21 W Ba 15s	1	1
9	347 229 216 216	834 757 2554	lamp 12 V/4 W Ba 9s	2	2
Sto	rage battery 69	many of the	The Last of Maries Indicated		
1	4519 487 69 075	487 69 075 00	storage battery YUASA 12 V/5 Ah	1	1
6	4519 488 60 070	488 60 070 00	regulator cable - storage battery	1	1
7	4519 488 60 073	488 60 073 00	storage battery cable - fuse	1	1
2	311 214 023	81 1810 00	fuse 8 A	2	2
		55 Geo. 0123	The Hand of the second		1 3
		PRO 1006			
	THE SHE ST SHE	are all off on	Lafel Com Roys Tree Agranage	1	

/Page 29/ STORAGE BATTERY



FRA	ME 31 valid from A	PKIL . 94.		488.4	487
1	4519 488 31 406	488 31 406 00	frame weld	1	1
	4519 488 31 400	488 31 400 00	frame Bl.	1	1
	4519 488 31 401	488 31 401 00	frame S.M.	1	1
	4519 488 31 402	488 31 402 00	frame R.	1	1
	4519 488 31 403	488 31 403 00	frame W.	1	1
la	4519 488 31 506	488 31 506 00	frame weld-poop stand arm	. 1	1
	4519 488 31 500	488 31 500 00	frame Bl.	1	1
	4519 488 31 501	488 31 501 00	frame S.M.	1	1
	4519 488 31 502	488 31 502 00	frame R.	1	1
	4519 488 31 503	488 31 503 00	frame W.	1	1
	4519 487 36 363 4519 487 36 368 4519 487 36 369	487 36 363 00 487 36 368 00 487 36 369 00	Guard R.HB 1. Guard R.HW. Guard R.HB.M.	1 1 1	1 1 1
	/Page 29/ STORAGE	MALEN			
mjə:	Zəɔ.www.cez	189	<b>k</b> /		

You have become and owner of the most modern type of Octabergulan provided with savietic party of the say we consider it as useful to acquaint you in more details with operating conditions of this motorcycle. The reason is that knowledge of correct maintenance and education with this motorcycle, the reason is that knowledge of correct maintenance and education with infinences the confidence of the consequence of the consequence

## www.cezetmania.info

## DESCRIPTION OF LUBRICATION SYSTEM

the analyse to use attented eliciberaphyshologous the old-tenk capadity is all the could be attented of the could be attented to buy oil of original brand and tind. It also emples to opportunity to buy oil of original brand and tind. It also emples to pushity, as the oil can be replantabled from original can be replantabled from original entire each to other and the oil can be replantabled from original entire each to other and the original entire each to other entire original entire each to other entire each to other entire each the other entire each to other entire each to other entire each to other entire each to other entire entire each to other entire entire each to other entire en

replied instrument

when the motorcycle is used in winter period, i. s. St Camperature to use oil of SAM 20 wiscosity class for inbrication while adding

THE STREET STREET

You have become and owner of the most modern type of CZ motorcycle provided with an oil pump. That is why we consider it as useful to acquaint you in more details with operating conditions of this motorcycle. The reason is that knowledge of correct maintenance and adjustment influences troublefree operation of the machine and consequently it makes you satisfied with www.cezetmania.info a perfect product which brings you these advantages:

- overall decrease in oil consumption, because the engine gets the specified oil dose in advance in the quantity which depends upon its speed and load; i. e. throttle grip turning;
- considerable decrease in motorcycle smokiness is occasioned, as the engine is not overlubricated. From hygienic point of view this version reduces the quantity of undesirable combustion products from exhaust gases in atmosphere;
- carbon formation in piston head, piston ring grooves, combustion chamber of cylinder head, cylinder exhaust parts, exhaust manifold and exhaust silencer is significantly reduced;
- it enables to use suitable and guaranteed lubrication in the whole range of revolutions with respect to engine load. At the existing method of lubrication, when oil was directly added into fuel, the owner had to rely frequently on assiduity of the petrol station attendant in keeping the lubrication proportion;
- it enables to use attested oil brand, because the oil tank capacity is sufficient to cover a distance of about 800 to 1000 km. This distance is high enough and the owner has an opportunity to buy oil of original brand and kind. It also enables to use oil of guaranteed quality, as the oil can be replenished from original sealed packing.

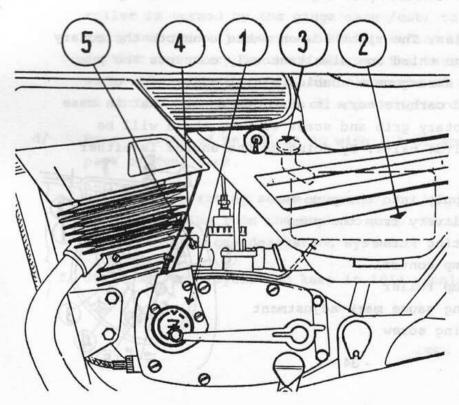
## Important notice:

When the motorcycle is used in winter period, i. e. at temperatures below -5°C, it is necessary to use oil of SAE 20 viscosity class for lubrication while adding simultaneously 1 % of oil into the fuel tank.

#### 1. DESCRIPTION OF LUBRICATING SYSTEM

## a/ Oil pump woo of sametallines at yilyacap and sametalbaso palterage damarus repaid

ČZ motorcycles equipped with an independent MIKUNI oil pump are lubricated with oil atomized in fuel. The pump enables to lubricate the engine in variable doses whose quantity is determined in advance with respect to slide valve stroke. This was iceration quantity delivered by the pump is not the same at all pumps, the pumps are adjusted by the manufacturer for different engine capacity and output. It is not therefore possible to change arbitrarily the pumps as spare parts. The pump is a piston-type driven by the crankshaft. Movable parts of the pump work in oil and that is why the pump parts need not be lubricated. The adjusting and controlling elements of the pump are accessible after removing the cover lid. The pump delivers oil into the engine in mixture in the range of 1:90 up to 1:50.



- 1. oil pump
- 2. oil tank right side
- 3. tank cap
- 4. spray nozzle
- 5. pump Bowden control cable

b/ Oil tank

Maximum tank capacity makes 1,15 liter; 1 liter can be considered as operating capacity. Under current operating conditions this quantity is sufficient to cover the distance of 800 - 1000 km. When the oil level drops; i. e. about 0,4 l. of oil is left in the tank, the red pilot lamp gets alight on the panel. In case of necessity \text{WWW.CeZetmania.info} possible to continue in riding with oil left in the tank event at dropped level up to max. distance of 100 km. It is therefore necessary to carry out level checking in time.

c/ Intake manifold

is made by means of special oil resistant hose between the pump and the oil tank.

d/ Delivery piping

it is a transparent hose of smaller cross section.

e/ Pump control

is executed by means of three Bowden cables. The right Bowden cable connects the rotary grip with screw clutch, the second and the third one simultaneously connects the pump control roller and the slide valve. This arrangement enables easier adjustment of elements, i. e. rotary grip, oil pump and carburetter; it also guarantees that in case of failure of the Bowden cable and the rotary grip and screw clutch, there will be simultaneously closed the pump and the slide valve. By doing so the engine is either idle running or stalled.

- 1. oil supply into the pump
- oil delivery from the pump
- 3. deaerating screw
  - 4. oil pump control
  - 5. oil pump roller
  - 6. checking gauge mark-adjustment
  - 7. adjusting screw

## 2. PUTTING THE NEW MOTORCYCLE INTO OPERATION

- a/ After preliminary tasks /storage battery, chains and bolts checking/ it is necessary to fill the oil tank with additional oil for petrol for 2-T engines, efficiency class API-TC
  - at temperatures -5°C + 40°C viscosity class SAE 30-40 WWW.Cezetmania.info

- at temperatures -5°C 10°C viscosity class SAE 20
- with simultaneous addition of 1 % of oil into the fuel tank.

Recommended oils: M2T - S, MOGUL TS, OMV - Xbike, OMV - bioMix, Castrol Formala TTS-RS, EVROL RTC - TS

- b/ Unscrew the pump cover lid.
- c/ Carry out Bowden cable length inspection at first visually, whether the pump control roller is turned by the gauge mark /cut/ to the boss on pump body. If it is not so, carry out the adjustment of this position by means of adjusting screw /fig. 7/. It is further necessary to check whether the second Bowden cable, leaned against the adjusting screw of carburetter lid, has clearance of about 1 mm. Adjust Bowden cable clearance at throttle grip by means of adjusting screw on the sleeve /fig. 3-4/ by about 1 mm.
- d/ Pour 1 liter of petrol BA 90 with 2 % of specified oil /20 ml/ mixture into the left part of fuel tank. The same land back and the same and same as problem
  - e/ Dismount deaerating screw /page 10, to the left, pos. 3/ from the pump front side and blow-off piping from the tank to pump. Provided that oil without air bubbles flows out of the hole, close deaeration system.
  - f/ Start the motorcycle and keep it idle running.

g/ Turn slightly the pump roller to position MAX and hold it in this position until the oil column in delivery piping from the pump up to suction part does not fill piping completely. Afterwards the adjustment process is finished. Check again Bowden cable adjustment according to point "c".

www.cezetmania.info

h/ Screw on the pump cover lid.

#### 3. LUBRICATION CHECKING DURING MOTORCYCLE OPERATION

- a/ Make sure before the ride whether there is enough oil in the oil tank. The red pilot lamp on the panel with a symbol must be alight when the engine is running; it should die out when the gear is shifted.
- b/ Verify visually whether both hoses are filled with oil and whether their attachment is reliable. If you find out there is no oil in delivery piping, it is necessary to remove the pump lid and perform breathing 2d/. After the engine is running, remove the delivery hose for a short time from the valve and check whether oil is dropping off in regular intervals.
  - c/ In case that the hose cannot be filled with oil even by additional pumping, the defect is more serious and should be removed as quickly as possible. One can continue riding on the assumption that oil is added into fuel tank from the oil tank in proportion 1: 40 /by estimate/. After repairing the pump it is necessary to drain off fuel and oil mixture and fill new petrol - otherwise the engine would be undesirably overlubricated.
  - d/ After terminating your ride, be sure that both hoses are full of oil and there are no traces of leakage.

- - Turn slightly the pump roller to the right /return spring overstressing/ until the upper cut out for connector gripping is turned so that the cable end connector can be slid in. After sliding the connector in, the cable should be inserted into the pump roller groove.
  - Carry out Bowden cable adjustment according to 2c/.

publicos gods - lager add of beyon ast antidose and legon transfer Landlevelous www.cezetmania.info

## Exchange of Bowden cable - carburetter - screw clutch

- Slide one end of cable into the screw clutch.
- Screw in the lid of slide valve chamber; take out the slide valve with needle.
- Slide in the connector of the second cable end into the groove in slide valve; mount the slide valve on.
- Adjust idle running and Bowden cable clearance /on the lid of slide valve chamber/.

- Remove the pump cover 11d. - Fitde the cable socket of the new Nowden of pump into screw tigion, the other end should

### 4. REPAIR OF LUBRICATING SYSTEM

Incompetent interference may result in engine seizing up. That is why the manufacturer does not accept guarantee for the engines and pumps where the defect was caused by incompetent interference. It is therefore recommended to remove defects in the engine in professional repair shops. The machine can moved to the repair shop according to point 3c.

Without violating the guarantee conditions it is possible to execute the following repairs in guarantee period:

- a/ oil piping /hoses/ exchange
- b/ exchange of packing at deaerating screw
- c/ exchange of control Bowden cables
- d/ exchange of lubricating tip-valve, or its packing.

The operation further quoted should be performed by professional repair shop within guarantee period:

a/ exchange of the pump as a unit and exchange of packing under the pump.

## Exchange of Bowden cable, rotary grip - clutch - pump

- Slide the cable socket after dismount ing the rotary grip into the capture the other end of cable should be slid into screw clutch.
- Remove the pump cover lid.
- Slide the cable socket of the new Bowden of pump into screw clutch, the other end should be slid into pump space .

A DESCRIPTION OF THE PROPERTY AND ADDRESS.

www.cezetmania.info

viscos escinting the queraness conditions it is pos-

ey and paying demand each loss

he secondly he passing in describing some

all exchange of his tracking algorithms or the passing

Software Services Services

at estimate of the part as a this and slockers I problem and the price

previous at the contract of the relation of the

- Single the cable special after distribute the she rotaty gets two desides in . The time will be expressed as a life into some distribute.
- \* Bellion the plan over the
- Siles and dance south the law stades of purplants acres thank the edition of courts and all the court appears.

www.cezetmania.info



ČZ - CAGIVA, a.s.
STRAKONICE
MADE IN CZECH

