



MUTT
Motorcycles

TECHNICAL MANUAL - MUTT MOTORCYCLES 250CC


250 EU5 02 (MONGREL TWIN SHOCK VARIANTS) - V2.0/E2 08/22


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250cc BIKE MODELS


	BIKE MODEL	MODEL ID	DATE FROM
	Akita 250-V3-Matt Black/Gold	PM086BG	01/01/2022


	BIKE MODEL	MODEL ID	DATE FROM
	GT-SR 250-V1-Matt Black/Silver	PM091MS	01/01/2022


	BIKE MODEL	MODEL ID	DATE FROM
	Mastiff 250-V3-Matt Green	PM097MG	01/01/2022


	BIKE MODEL	MODEL ID	DATE FROM
	Akita 250-V3-Silver	PM086SV	01/01/2022


	BIKE MODEL	MODEL ID	DATE FROM
	GT-SS 250-V2-Gloss Black/White	PM093G1	01/01/2022


	BIKE MODEL	MODEL ID	DATE FROM
	Mongrel 250-V4-Matt Black	PM099MB	01/01/2022


	BIKE MODEL	MODEL ID	DATE FROM
	Akita 250-V3-All Black	PM086AB	01/01/2022


	BIKE MODEL	MODEL ID	DATE FROM
	Hilts 250-V5-Gloss Grey	PM095GG	01/01/2022


	BIKE MODEL	MODEL ID	DATE FROM
	RS-13 250-V4-Raw Steel	PM106RS	01/01/2022


	BIKE MODEL	MODEL ID	DATE FROM
	FSR 250-V3-Cool Gloss Grey	PM089CY	01/01/2022

	BIKE MODEL	MODEL ID	DATE FROM
	Hilts 250-V5-Matt Green	PM095MG	01/01/2022

	BIKE MODEL	MODEL ID	DATE FROM
	Sabbath 250-V4-Matt Black	PM104MB	01/01/2022

	BIKE MODEL	MODEL ID	DATE FROM
	FSR 250-V3-Matt Black	PM089MB	01/01/2022

	BIKE MODEL	MODEL ID	DATE FROM
	Mastiff 250-V3-Matt Black/Silver	PM097MS	01/01/2022

	BIKE MODEL	MODEL ID	DATE FROM
	Sabbath 250-V4-Titanium Grey	PM104TG	01/01/2022

BIKE MODELS - PARTS GROUP IDENTIFICATION



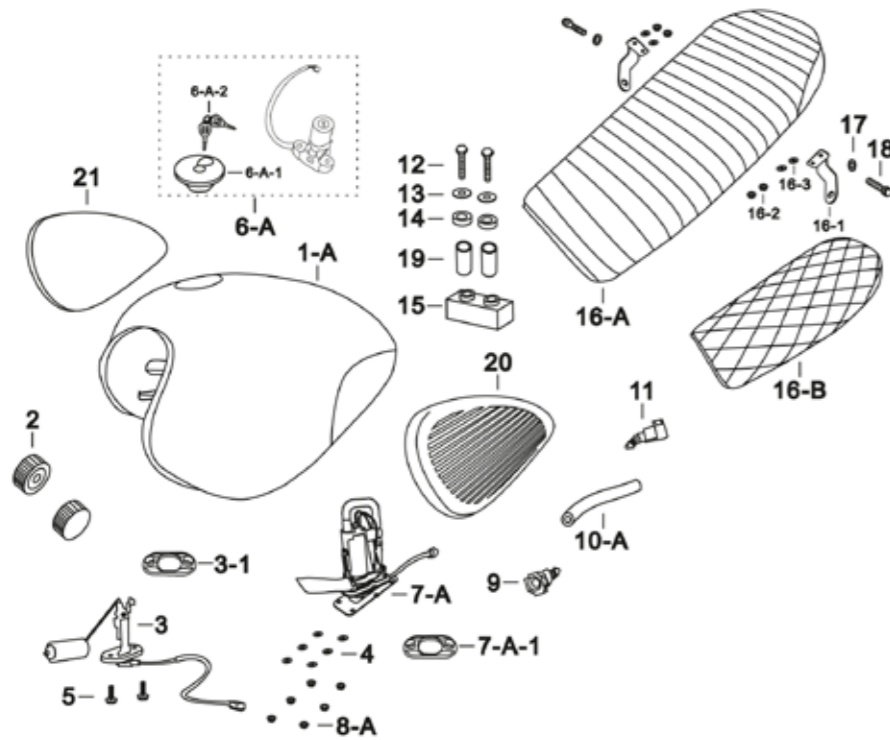
		F01	F02	F03	F04	F05	F06	F07	F08	F09	F10	F11	F12	F13	F14	F15
BIKE MODEL ID	BIKE MODEL ID NO.	TANK & SEAT	REAR FENDER & SIDE PANELS	ELECTRICS	ENGINE	HANDLEBARS	SWINGARM & REAR SHOCKS	FRONT FENDER & FRONT FORK	EXHAUST	YOKE	FRAME	SPEEDOMETER & HEADLIGHT	WHEELS - FRONT	WHEELS - REAR	BRAKES	CABLES, MIRRORS, TOOLS
Akita 250-V3-Matt Black/Gold	PM086BG	F01C	F02C	F03A	F04B	F05D	F06B	F07C	F08B	F09A	F10C	F11A	F12E	F13E	F14A	F15A
Akita 250-V3-Silver	PM086SV	F01C	F02C	F03A	F04B	F05D	F06B	F07C	F08B	F09A	F10C	F11A	F12E	F13E	F14A	F15A
Akita 250-V3-All Black	PM086AB	F01C	F02C	F03A	F04B	F05D	F06B	F07C	F08B	F09A	F10C	F11A	F12E	F13E	F14A	F15A
FSR 250-V3-Cool Gloss Grey	PM089CY	F01B	F02C	F03A	F04B	F05D	F06B	F07C	F08B	F09A	F10B	F11A	F12F	F13F	F14A	F15A
FSR 250-V3-Matt Black	PM089MB	F01B	F02C	F03A	F04B	F05D	F06B	F07C	F08B	F09A	F10B	F11A	F12F	F13F	F14A	F15A
GT-SR 250-V1-Matt Black/Silver	PM091MS	F01B	F02C	F03A	F04B	F05C	F06B	F07C	F08A	F09A	F10B	F11A	F12D	F13D	F14A	F15A
GT-SS 250-V2-Gloss Black/White	PM093G1	F01B	F02B	F03A	F04A	F05C	F06A	F07B	F08A	F09A	F10B	F11A	F12D	F13D	F14A	F15A
Hilts 250-V5-Gloss Grey	PM095GG	F01A	F02B	F03A	F04A	F05B	F06A	F07A	F08A	F09A	F10A	F11A	F12B	F13B	F14A	F15A
Hilts 250-V5-Matt Green	PM095MG	F01A	F02B	F03A	F04A	F05B	F06A	F07A	F08A	F09A	F10A	F11A	F12B	F13B	F14A	F15A
Mastiff 250-V3-Matt Black/Silver	PM097MS	F01B	F02B	F03A	F04A	F05C	F06A	F07B	F08A	F09A	F10B	F11A	F12E	F13E	F14A	F15A
Mastiff 250-V3-Matt Green	PM097MG	F01B	F02B	F03A	F04A	F05C	F06A	F07B	F08A	F09A	F10B	F11A	F12E	F13E	F14A	F15A
Mongrel 250-V4-Matt Black	PM099MB	F01A	F02A	F03A	F04A	F05A	F06A	F07A	F08A	F09A	F10A	F11A	F12A	F13A	F14A	F15A
RS-13 250-V4-Raw Steel	PM106RS	F01A	F02B	F03A	F04A	F05C	F06A	F07B	F08A	F09A	F10B	F11A	F12C	F13C	F14A	F15A
Sabbath 250-V4-Matt Black	PM104MB	F01A	F02B	F03A	F04A	F05C	F06A	F07B	F08A	F09A	F10B	F11A	F12C	F13C	F14A	F15A
Sabbath 250-V4-Titanium Grey	PM104TG	F01A	F02B	F03A	F04A	F05C	F06A	F07B	F08A	F09A	F10B	F11A	F12C	F13C	F14A	F15A

250EU502-F01A

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DIAGRAM REF.	GROUP REF.	GROUP
F01A	F01	TANK & SEAT

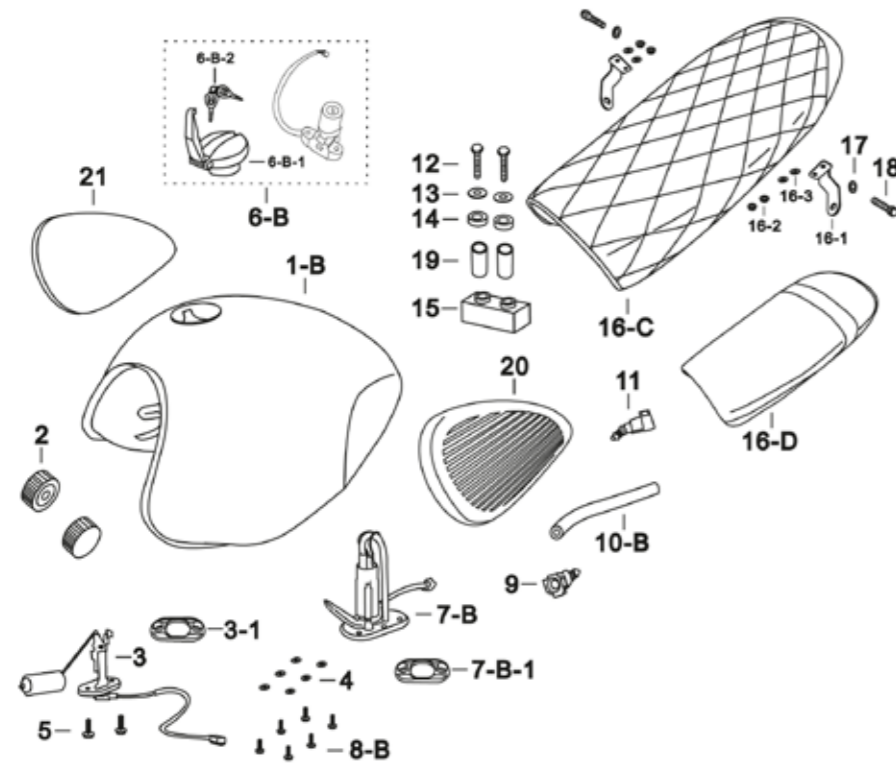
ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-A	MPT-1232	1241400011581	TANK - 12 LITRE - (GALVANISED) - MATT BLACK	C194	TANK	12 LITRE	Matt Black	1
1-A	MPT-1233	1241400011608	TANK - 12 LITRE - (GALVANISED) - GLOSS GREY	C194	TANK	12 LITRE	Gloss Grey	1
1-A	MPT-1234	1241400011599	TANK - 12 LITRE - (GALVANISED) - MATT GREEN	C194	TANK	12 LITRE	Matt Green	1
1-A	MPT-1235	1241400011583	TANK - 12 LITRE - (GALVANISED) - RAW STEEL	C194	TANK	12 LITRE	Raw Steel	1
1-A	MPT-1367	1241400012309	TANK - 12 LITRE - (GALVANISED) - TITANIUM GREY	C194	TANK		Titanium Grey	1
2	MPT-0381	1260300010000	RUBBER - FUEL TANK - FRONT	C144	RUBBER		No Colour	2
3	MPT-0303	1180400148100	FUEL SENSOR	C159	SENSOR		No Colour	1
3-1	MPT-0475	1651700012100	RUBBER SEAL - FUEL SENSOR	C150	RUBBER SEAL		No Colour	1
4	MPT-0029	1040300142000	SEALING WASHER - FUEL PUMP	C156	SEALING WASHER	M6	No Colour	6
5	MPT-0962	7643106016170	HEX SHOULDER BOLT - FLANGED - M6x20	C012	BOLT	M6x20(ø8x4.8)	No Colour	2
6-A	MPT-0311	1181400150100	LOCK SET	C110	LOCK SET		No Colour	1
6-A-1	MPT-0472	1650500020000	FUEL TANK CAP - MUTT	C087	FUEL TANK CAP		No Colour	1
6-A-2	MPT-0474	1650500040000	KEYS - BLANK - 1 PAIR - MUTT	C106	KEYS		No Colour	2
7-A	MPT-1236	1114500010000	FUEL PUMP - 12 LITRE TANK - 350KPA	C086	FUEL PUMP	12 LITRE,350KPA	No Colour	1
7-A-1	MPT-0187	1114111005600	RUBBER SEAL - FUEL PUMP - 12 LITRE TANK	C150	RUBBER SEAL		No Colour	1
8-A	MPT-0900	7032605000147	HEX NUT - FLANGED - M5	C118	NUT	M5	No Colour	6
9	MPT-0191	1114111007100	QUICK CONNECTOR - B1	C133	QUICK CONNECTOR	B1	No Colour	1
10-A	MPT-0193	1114111007700	HIGH PRESSURE FUEL HOSE - 75MM	C098	HIGH PRESSURE FUEL HOSE	75mm	No Colour	1
10-A	MPT-1441	1114111007701	HIGH PRESSURE FUEL HOSE - 75MM	C084	FUEL HOSE	75mm	No Colour	1
11	MPT-0194	1114111007800	QUICK CONNECTOR - B19	C133	QUICK CONNECTOR	B19,115°	No Colour	1
12	MPT-0815	7012406040268	HEX BOLT - M6x40 - TANK	C012	BOLT		No Colour	2
13	MPT-0922	7052706222038	WASHER - 6x22x2 - TANK	C206	WASHER	6x22x2	No Colour	2
14	MPT-0425	1261700020000	RUBBER RING - TANK	C149	RUBBER RING		No Colour	2
15	MPT-0426	1261700050000	T-RUBBER - TANK	C191	T-RUBBER		No Colour	1
16-A	MPT-0321	1211400129900	SEAT - BROWN	C157	SEAT		Brown	1
16-B	MPT-0322	1211400131000	SEAT - DIAMOND - BLACK	C157	SEAT		Black	1
16-1	MPT-0320	1211400029121	BRACKET - SEAT (PAIR)	C015	BRACKET		No Colour	1
16-2	MPT-0902	7032606000142	HEX NUT - FLANGED - M6	C118	NUT	M6	No Colour	4
16-3	MPT-0399	1260300500000	RUBBER RING - SEAT BRACKET	C149	RUBBER RING		No Colour	4
17	MPT-0915	7050108161648	WASHER - FLAT - 8x16x1.6	C206	WASHER	8x16x1.6	No Colour	2
18	MPT-0958	7630208025164	CORNER SIX HEAD BOLT - M8x25	C012	BOLT	M8x25	No Colour	2
19	MPT-0398	1260300450000	BUSHING	C023	BUSHING		No Colour	2
20	MPT-0420	1261400050000	TANK KNEE PAD - LH	C107	KNEE PADS		No Colour	1
21	MPT-0421	1261400060000	TANK KNEE PAD - RH	C107	KNEE PADS		No Colour	1
20	MPT-0420	1261400050000	TANK KNEE PAD - LH	C107	KNEE PADS		No Colour	1
21	MPT-0421	1261400060000	TANK KNEE PAD - RH	C107	KNEE PADS		No Colour	1



250EU502-F01B

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DIAGRAM REF.	GROUP REF.	GROUP
F01B	F01	TANK & SEAT

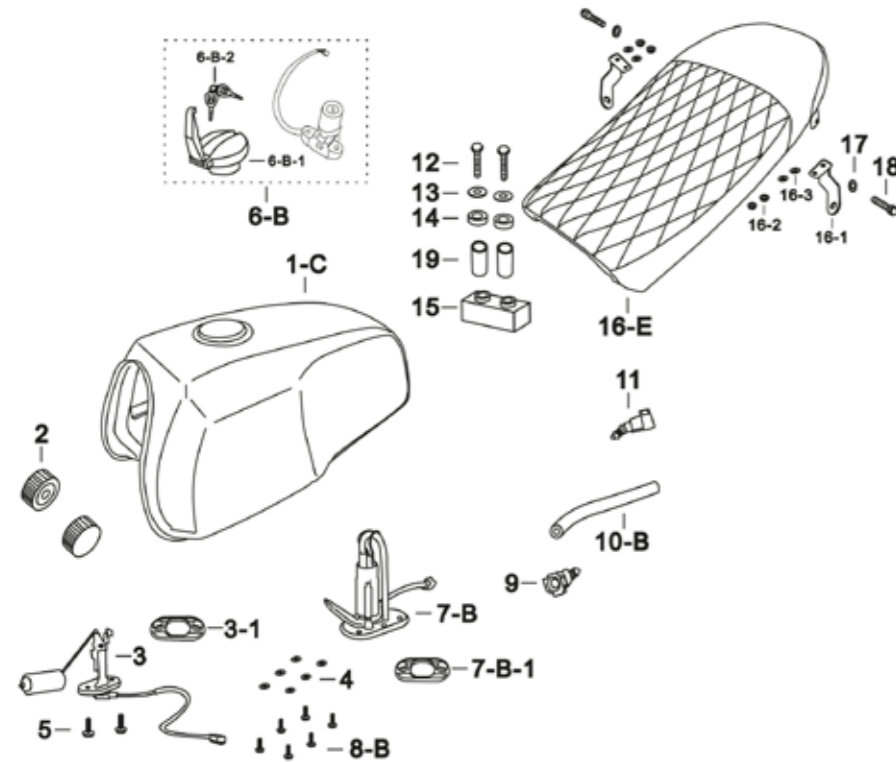


ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-B	MPT-1370	1241400015103	TANK - 17 LITRE - MATT BLACK/SILVER - GALVANISED	C194	TANK	17 LITRE	Matt Black/Silver	1
1-B	MPT-1371	1241400011614	TANK - 17 LITRE - MATT BLACK - GALVANISED - WITH DECALS	C194	TANK	17 LITRE	Matt Black	1
1-B	MPT-1372	1241400011309	TANK - 17 LITRE - GREY - GALVANISED	C194	TANK	17 LITRE	Gloss Grey	1
1-B	MPT-1373	1241400015309	TANK - 17 LITRE - MATT GREEN - GALVANISED	C194	TANK	17 LITRE	Matt Green	1
1-B	MPT-1374	1241400043002	TANK - 17 LITRE - GLOSS BLACK/WHITE - GALVANISED	C194	TANK	17 LITRE	Gloss Black/White	1
1-B	MPT-1375	1241400043205	TANK - 17 LITRE - MATT BLACK/SILVER - GALVANISED	C194	TANK	17 LITRE	Matt Black/Silver	1
2	MPT-0381	1260300010000	RUBBER - FUEL TANK - FRONT	C144	RUBBER		No Colour	2
3	MPT-0303	1180400148100	FUEL SENSOR	C159	SENSOR		No Colour	1
3-1	MPT-0475	1651700012100	RUBBER SEAL - FUEL SENSOR	C150	RUBBER SEAL		No Colour	1
4	MPT-0029	1040300142000	SEALING WASHER - FUEL PUMP	C156	SEALING WASHER	M6	No Colour	6
5	MPT-0962	7643106016170	HEX SHOULDER BOLT - FLANGED - M6x20	C012	BOLT	M6x20(ø8x4.8)	No Colour	2
6-B	MPT-0312	1181400161200	LOCK SET	C110	LOCK SET		No Colour	1
6-B-1	MPT-0473	1650500030000	FUEL TANK CAP - MUTT	C087	FUEL TANK CAP		No Colour	1
6-B-2	MPT-0474	1650500040000	KEYS - BLANK - 1 PAIR - MUTT	C106	KEYS		No Colour	2
7-B	MPT-1237	1114500011000	FUEL PUMP - 17 LITRE TANK - 350KPA	C086	FUEL PUMP	17 LITRE,350KPA	No Colour	1
7-B-1	MPT-0186	1114111005400	RUBBER SEAL - FUEL PUMP - 17 LITRE TANK	C150	RUBBER SEAL		No Colour	1
8-B	MPT-0823	7012805026158	HEX BOLT - FLANGED - M5x20 - FUEL PUMP - 17 LITRE TANK	C012	BOLT	M5x20	No Colour	6
9	MPT-0191	1114111007100	QUICK CONNECTOR - B1	C133	QUICK CONNECTOR	B1	No Colour	1
10-B	MPT-0192	1114111007600	HIGH PRESSURE FUEL HOSE - 100MM	C098	HIGH PRESSURE FUEL HOSE	100mm	No Colour	1
10-B	MPT-1414	1114111007601	HIGH PRESSURE FUEL HOSE - WITH CONNECTOR - 100MM	C084	FUEL HOSE	100MM	No Colour	1
11	MPT-0194	1114111007800	QUICK CONNECTOR - B19	C133	QUICK CONNECTOR	B19,115°	No Colour	1
12	MPT-0815	7012406040268	HEX BOLT - M6x40 - TANK	C012	BOLT	M6x40	No Colour	2
13	MPT-0922	7052706222038	WASHER - 6x22x2 - TANK	C206	WASHER	6x22x2	No Colour	2
14	MPT-0425	1261700020000	RUBBER RING - TANK	C149	RUBBER RING		No Colour	2
15	MPT-0426	1261700050000	T-RUBBER - TANK	C191	T-RUBBER	19mm	No Colour	1
16-C	MPT-0323	1211400132000	SEAT - DIAMOND - BROWN	C157	SEAT		Brown	1
16-D	MPT-0324	1211400133000	SEAT - BLACK	C157	SEAT		Black	1
16-D	MPT-0326	1211400135000	SEAT - SMOOTH	C157	SEAT		Black	1
16-1	MPT-0320	1211400029121	BRACKET - SEAT (PAIR)	C015	BRACKET		No Colour	1
16-2	MPT-0902	7032606000142	HEX NUT - FLANGED - M6	C118	NUT	M6	No Colour	1
16-3	MPT-0399	1260300500000	RUBBER RING - SEAT BRACKET	C149	RUBBER RING		No Colour	4
17	MPT-0915	7050108161648	WASHER - FLAT - 8x16x1.6	C206	WASHER	8x16x1.6	No Colour	2
18	MPT-0958	7630208025164	CORNER SIX HEAD BOLT - M8x25	C012	BOLT	M8x25	No Colour	2
19	MPT-0398	1260300450000	BUSHING	C023	BUSHING	ø8xø10x25	No Colour	2
20	MPT-0420	1261400050000	TANK KNEE PAD - LH	C107	KNEE PADS		No Colour	1
21	MPT-0421	1261400060000	TANK KNEE PAD - RH	C107	KNEE PADS		No Colour	1

250EU502-F01C

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DIAGRAM REF.	GROUP REF.	GROUP
F01C	F01	TANK & SEAT



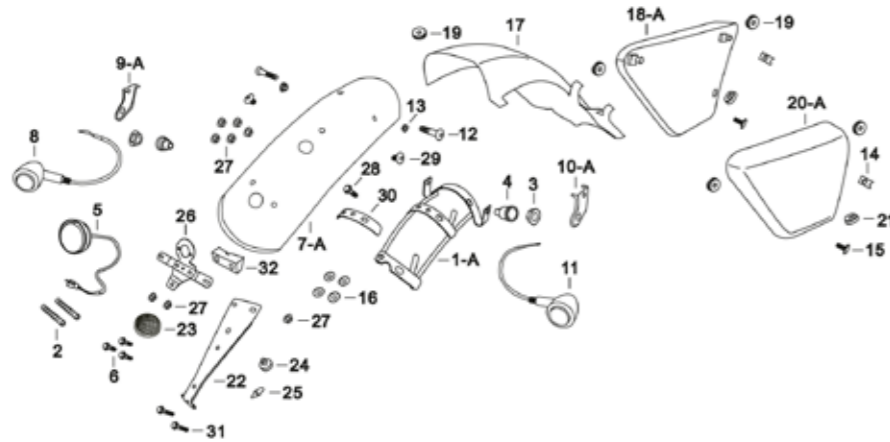
ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-C	MPT-1361	1241400302660	TANK - SQUARE - MATT SILVER	C194	TANK		Silver	1
1-C	MPT-1362	1241400302670	TANK - SQUARE - MATT BLACK	C194	TANK		Matt Black	1
1-C	MPT-1416	1241400302680	TANK - SQUARE - ALL BLACK	C194	TANK		All Black	1
2	MPT-0381	1260300010000	RUBBER - FUEL TANK - FRONT	C144	RUBBER		No Colour	2
3	MPT-0303	1180400148100	FUEL SENSOR	C159	SENSOR		No Colour	1
3-1	MPT-0475	1651700012100	RUBBER SEAL - FUEL SENSOR	C150	RUBBER SEAL		No Colour	1
4	MPT-0029	1040300142000	SEALING WASHER - FUEL PUMP	C156	SEALING WASHER	M6	No Colour	6
5	MPT-0962	7643106016170	HEX SHOULDER BOLT - FLANGED - M6x20	C012	BOLT	M6x20(ø8x4.8)	No Colour	2
6-B	MPT-0312	1181400161200	LOCK SET	C110	LOCK SET		No Colour	1
6-B-1	MPT-0473	1650500030000	FUEL TANK CAP - MUTT	C087	FUEL TANK CAP		No Colour	1
6-B-2	MPT-0474	1650500040000	KEYS - BLANK - 1 PAIR - MUTT	C106	KEYS		No Colour	2
7-B	MPT-1236	1114500010000	FUEL PUMP - 12 LITRE TANK - 350KPA	C086	FUEL PUMP	12 LITRE,350KPA	No Colour	1
7-B-1	MPT-0186	1114111005400	RUBBER SEAL - FUEL PUMP - 17 LITRE TANK	C150	RUBBER SEAL		No Colour	1
8-B	MPT-0823	7012805026158	HEX BOLT - FLANGED - M5x20 - FUEL PUMP - 17 LITRE TANK	C012	BOLT	M5x20	No Colour	6
9	MPT-0191	1114111007100	QUICK CONNECTOR - B1	C133	QUICK CONNECTOR	B1	No Colour	1
10-B	MPT-1441	1114111007701	HIGH PRESSURE FUEL HOSE - 75MM	C084	FUEL HOSE	75mm	No Colour	1
11	MPT-0194	1114111007800	QUICK CONNECTOR - B19	C133	QUICK CONNECTOR	B19,115°	No Colour	1
12	MPT-0815	7012406040268	HEX BOLT - M6x40 - TANK	C012	BOLT	M6x40	No Colour	2
13	MPT-0922	7052706222038	WASHER - 6x22x2 - TANK	C206	WASHER	6x22x2	No Colour	2
14	MPT-0425	1261700020000	RUBBER RING - TANK	C149	RUBBER RING		No Colour	2
15	MPT-0426	1261700050000	T-RUBBER - TANK	C191	T-RUBBER	19mm	No Colour	1
16-E	MPT-0325	1211400134000	SEAT - LIGHT BROWN	C157	SEAT		Light Brown	1
16-E	MPT-1376	1211400138000	SEAT - DARK BROWN	C157	SEAT		Dark Brown	1
16-E	MPT-1358	1211400139000	SEAT - BLACK	C157	SEAT		Black	1
16-1	MPT-0320	1211400029121	BRACKET - SEAT (PAIR)	C015	BRACKET		No Colour	2
16-2	MPT-0902	7032606000142	HEX NUT - FLANGED - M6	C118	NUT	M6	No Colour	2
16-3	MPT-0399	1260300500000	RUBBER RING - SEAT BRACKET	C149	RUBBER RING		No Colour	4
17	MPT-0915	7050108161648	WASHER - FLAT - 8x16x1.6	C206	WASHER	8x16x1.6	No Colour	2
18	MPT-0958	7630208025164	CORNER SIX HEAD BOLT - M8x25	C012	BOLT	M8x25	No Colour	2
19	MPT-0398	1260300450000	BUSHING	C023	BUSHING	ø8xø10x25	No Colour	2

250EU502-F02A

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DIAGRAM REF.	GROUP REF.	GROUP
F02A	F02	REAR FENDER & SIDE PANELS

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-1379	1041400052000	BRACKET - REAR FENDER - INNER - SHORT - STAMPED	C015	BRACKET		Black	1
2	MPT-0397	1260300410000	CLAMP	C041	CLAMP	ø6x11x53	No Colour	2
3	MPT-0912	7034310000347	HEX NUT - FLANGED - M10x1.25	C118	NUT	M10x1.25	No Colour	2
4	MPT-0422	1261400141000	RUBBER SLEEVE - INDICATORS	C151	RUBBER SLEEVE		No Colour	2
5	MPT-0293	1171400069000	TAIL LIGHT - BLACK	C193	TAIL LIGHT		Black	1
6	MPT-0855	7013006012268	HEX BOLT - FLANGED - M6x12	C012	BOLT	M6x12	No Colour	3
7-A	MPT-0339	1221400272103	FENDER - REAR - STANDARD - MATT BLACK	C135	REAR FENDER	STANDARD	Matt Black	1
8	MPT-0291	1171000076300	INDICATOR - REAR - LED - CNC - LH - BLACK	C102	INDICATOR		Black	1
9-A	MPT-0057	1041000110000	BRACKET - REAR INDICATOR - LH	C015	BRACKET		No Colour	1
10-A	MPT-0060	1041000120000	BRACKET - REAR INDICATOR - RH	C015	BRACKET		No Colour	1
11	MPT-0292	1171000086300	INDICATOR - REAR - LED - CNC - RH - BLACK	C102	INDICATOR		Black	1
12	MPT-0842	7012808035268	BOLT - M8x35	C012	BOLT	M8x35	No Colour	2
13	MPT-0906	7032608000247	HEX NUT - FLANGED - M8	C118	NUT	M8	No Colour	2
14	MPT-0963	7670205000009	CLIP NUT - M5	C044	CLIP NUT	M5	No Colour	2
15	MPT-0886	7024005014159	PHILLIPS LARGE FLAT HEAD SCREW - M5x14	C152	SCREW	M5x14	No Colour	2
16	MPT-0917	7050206181638	WASHER - 6x18x1.6	C206	WASHER	6x18x1.6	No Colour	4
17	MPT-0331	1220300143000	INNER FENDER - REAR - PLASTIC	C128	PLASTIC INNER		No Colour	1
18-A	MPT-0370	1251400129115	SIDE PANEL - LH - MATT BLACK	C161	SIDE PANEL		Matt Black	1
19	MPT-0388	1260300160000	RUBBER RING A - SIDE PANEL	C149	RUBBER RING		No Colour	5
20-A	MPT-0367	1251400127032	SIDE PANEL - RH - MATT BLACK	C161	SIDE PANEL		Matt Black	1
21	MPT-0389	1260300170000	RUBBER RING D - SIDE PANEL	C149	RUBBER RING		No Colour	2
22	MPT-0053	1041000084002	BRACKET - REAR REFLECTOR	C015	BRACKET		No Colour	1
23	MPT-0423	1261400940000	REFLECTOR - REAR	C137	REFLECTOR	M6	No Colour	1
24	MPT-0428	1263200090000	ROUND RUBBER PAD	C148	RUBBER PAD		No Colour	1
25	MPT-0966	9890021000966	BUFFER RUBBER	C021	BUFFER RUBBER		No Colour	1
26	MPT-0056	1041000090002	BRACKET - TAIL LIGHT - BLACK	C015	BRACKET		Black	1
27	MPT-0905	7032606000248	HEX NUT - FLANGED - M6	C118	NUT	M6	No Colour	8
28	MPT-0858	7013006020268	HEX BOLT - FLANGED - M6x20	C012	BOLT	M6x20	No Colour	1
29	MPT-0949	7513706012260	LARGE HEXAGONAL FLAT HEAD SCREW - M6x12	C152	SCREW	M6x12	No Colour	2
30	MPT-0048	1041000080004	CLAMP PLATE - REAR FENDER	C042	CLAMP PLATE		No Colour	1
31	MPT-0862	7013006035268	HEX BOLT - FLANGED - M6x35	C012	BOLT	M6x35	No Colour	2
32	MPT-0427	1261700060000	RUBBER PAD - TAIL LIGHT BRACKET	C148	RUBBER PAD		No Colour	1
33	MPT-0339	1221400272103	FENDER - REAR - STANDARD - MATT BLACK	C135	REAR FENDER	STANDARD	Matt Black	1

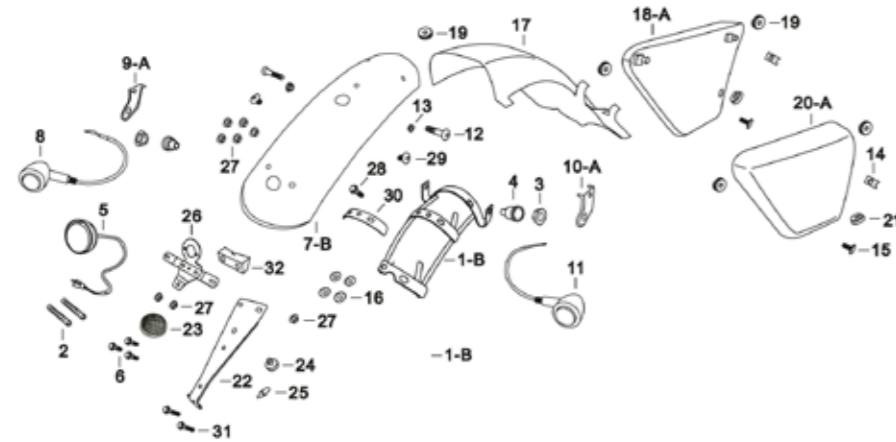


250EU502-F02B



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DIAGRAM REF.	GROUP REF.	GROUP
F02B	F02	REAR FENDER & SIDE PANELS

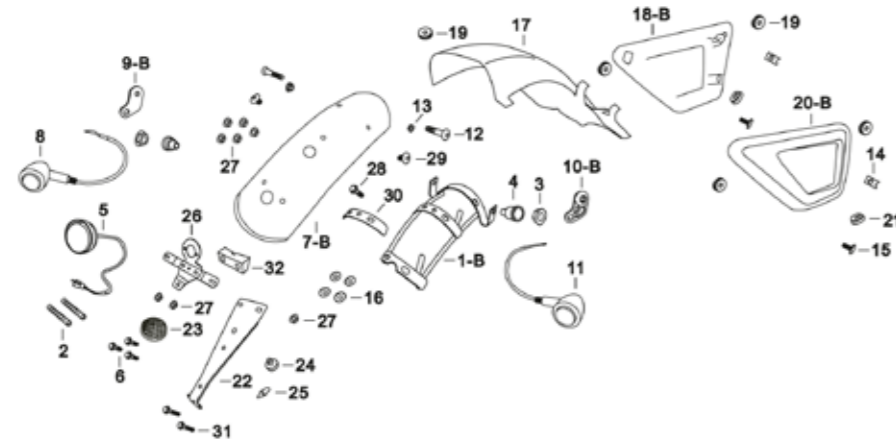


ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-1379	1041400052000	BRACKET - REAR FENDER - INNER - SHORT - STAMPED	C015	BRACKET		Black	1
2	MPT-0397	1260300410000	CLAMP	C041	CLAMP	ø6x11x53	No Colour	2
3	MPT-0912	7034310000347	HEX NUT - FLANGED - M10x1.25	C118	NUT	M10x1.25	No Colour	2
4	MPT-0422	1261400141000	RUBBER SLEEVE - INDICATORS	C151	RUBBER SLEEVE		No Colour	2
5	MPT-0293	1171400069000	TAIL LIGHT - BLACK	C193	TAIL LIGHT		Black	1
5	MPT-0294	1171400080000	TAIL LIGHT - BRUSHED	C193	TAIL LIGHT		Brushed Aluminium	1
6	MPT-0855	7013006012268	HEX BOLT - FLANGED - M6x12	C012	BOLT	M6x12	No Colour	3
7-B	MPT-0336	1221400272004	FENDER - REAR - SHORT - GREY	C135	REAR FENDER	SHORT	Gloss Grey	1
7-B	MPT-0337	1221400272005	FENDER - REAR - SHORT - MATT GREEN	C135	REAR FENDER	SHORT	Matt Green	1
7-B	MPT-0338	1221400272007	FENDER - REAR - SHORT - MATT BLACK	C135	REAR FENDER	SHORT	Matt Black	1
7-B	MPT-0340	1221400273003	FENDER - REAR - SHORT - BRUSHED	C135	REAR FENDER	SHORT	Brushed Aluminium	1
8	MPT-0291	1171000076300	INDICATOR - REAR - LED - CNC - LH - BLACK	C102	INDICATOR		Black	1
8	MPT-0289	1171000076200	INDICATOR - REAR - LED - CNC - LH - BRUSHED	C102	INDICATOR		Brushed Aluminium	1
9-A	MPT-0057	1041000110000	BRACKET - REAR INDICATOR - LH	C015	BRACKET		No Colour	1
10-A	MPT-0060	1041000120000	BRACKET - REAR INDICATOR - RH	C015	BRACKET		No Colour	1
11	MPT-0292	1171000086300	INDICATOR - REAR - LED - CNC - RH - BLACK	C102	INDICATOR		Black	1
11	MPT-0290	1171000086200	INDICATOR - REAR - LED - CNC - RH - BRUSHED	C102	INDICATOR		Brushed Aluminium	1
12	MPT-0842	7012808035268	BOLT - M8x35	C012	BOLT	M8x35	No Colour	2
13	MPT-0906	7032608000247	HEX NUT - FLANGED - M8	C118	NUT	M8	No Colour	2
14	MPT-0963	7670205000009	CLIP NUT - M5	C044	CLIP NUT	M5	No Colour	2
15	MPT-0886	7024005014159	PHILLIPS LARGE FLAT HEAD SCREW - M5x14	C152	SCREW	M5x14	No Colour	2
16	MPT-0917	7050206181638	WASHER - 6x18x1.6	C206	WASHER	6x18x1.6	No Colour	4
17	MPT-0331	1220300143000	INNER FENDER - REAR - PLASTIC	C128	PLASTIC INNER		No Colour	1
18-A	MPT-0370	1251400129115	SIDE PANEL - LH - MATT BLACK	C161	SIDE PANEL		Matt Black	1
18-A	MPT-0371	1251400129149	SIDE PANEL - LH - GREY	C161	SIDE PANEL		Gloss Grey	1
18-A	MPT-0372	1251400129153	SIDE PANEL - LH - MATT GREEN	C161	SIDE PANEL		Matt Green	1
18-A	MPT-0363	1251400115002	SIDE PANEL - LH - GLOSS BLACK	C161	SIDE PANEL		Gloss Black	1
18-A	MPT-0374	1251400169003	SIDE PANEL - LH - MATT BLACK/SILVER	C161	SIDE PANEL		Matt Black/Silver	1
19	MPT-0388	1260300160000	RUBBER RING A - SIDE PANEL	C149	RUBBER RING		No Colour	5
20-A	MPT-0367	1251400127032	SIDE PANEL - RH - MATT BLACK	C161	SIDE PANEL		Matt Black	1
20-A	MPT-0368	1251400127049	SIDE PANEL - RH - GREY	C161	SIDE PANEL		Gloss Grey	1
20-A	MPT-0369	1251400127050	SIDE PANEL - RH - MATT GREEN	C161	SIDE PANEL		Matt Green	1
20-A	MPT-0364	1251400116002	SIDE PANEL - RH - GLOSS BLACK	C161	SIDE PANEL		Gloss Black	1
20-A	MPT-0373	1251400149003	SIDE PANEL - RH - MATT BLACK/SILVER	C161	SIDE PANEL		Matt Black/Silver	1
21	MPT-0389	1260300170000	RUBBER RING D - SIDE PANEL	C149	RUBBER RING		No Colour	2
22	MPT-0053	1041000084002	BRACKET - REAR REFLECTOR	C015	BRACKET		No Colour	1
23	MPT-0423	1261400940000	REFLECTOR - REAR	C137	REFLECTOR	M6	No Colour	1
24	MPT-0428	1263200090000	ROUND RUBBER PAD	C148	RUBBER PAD		No Colour	1
25	MPT-0966	9890021000966	BUFFER RUBBER	C021	BUFFER RUBBER		No Colour	1
26	MPT-0056	1041000090002	BRACKET - TAIL LIGHT - BLACK	C015	BRACKET		Black	1
27	MPT-0905	7032606000248	HEX NUT - FLANGED - M6	C118	NUT	M6	No Colour	8
28	MPT-0858	7013006020268	HEX BOLT - FLANGED - M6x20	C012	BOLT	M6x20	No Colour	1
29	MPT-0949	7513706012260	LARGE HEXAGONAL FLAT HEAD SCREW - M6x12	C152	SCREW	M6x12	No Colour	2
30	MPT-0048	1041000080004	CLAMP PLATE - REAR FENDER	C042	CLAMP PLATE		No Colour	1
31	MPT-0862	7013006035268	HEX BOLT - FLANGED - M6x35	C012	BOLT	M6x35	No Colour	2
32	MPT-0427	1261700060000	RUBBER PAD - TAIL LIGHT BRACKET	C148	RUBBER PAD		No Colour	1

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DIAGRAM REF.	GROUP REF.	GROUP
F02C	F02	REAR FENDER & SIDE PANELS



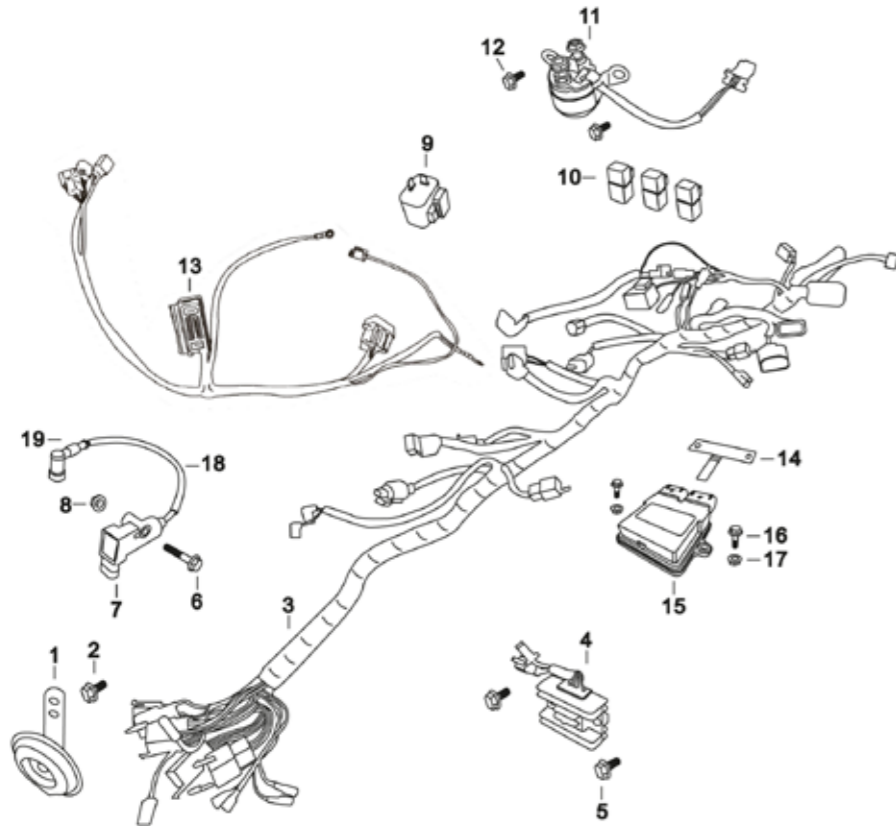
ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-1379	1041400052000	BRACKET - REAR FENDER - INNER - SHORT - STAMPED	C015	BRACKET		Black	1
2	MPT-0397	1260300410000	CLAMP	C041	CLAMP	ø6x11x53	No Colour	2
3	MPT-0912	7034310000347	HEX NUT - FLANGED - M10x1.25	C118	NUT	M10x1.25	No Colour	2
4	MPT-0422	1261400141000	RUBBER SLEEVE - INDICATORS	C151	RUBBER SLEEVE		No Colour	2
5	MPT-0293	1171400069000	TAIL LIGHT - BLACK	C193	TAIL LIGHT		Black	1
6	MPT-0855	7013006012268	HEX BOLT - FLANGED - M6x12	C012	BOLT	M6x12	No Colour	3
7-B	MPT-0338	1221400272007	FENDER - REAR - SHORT - MATT BLACK	C135	REAR FENDER	SHORT	Matt Black	1
7-B	MPT-0340	1221400273003	FENDER - REAR - SHORT - BRUSHED	C135	REAR FENDER	SHORT	Brushed Aluminium	1
7-B	MPT-1423	1221400282007	FENDER - REAR - SHORT - COOL GLOSS GREY	C135	REAR FENDER		Cool Gloss Grey	1
8	MPT-0291	1171000076300	INDICATOR - REAR - LED - CNC - LH - BLACK	C102	INDICATOR		Black	1
8-B	MPT-1419	1171000039000	INDICATOR - FLEXI-LED - REAR - LH	C102	INDICATOR		No Colour	1
9-B	MPT-0058	1041000114000	BRACKET - REAR INDICATOR - CNC - LH	C015	BRACKET		Black	1
10-B	MPT-0059	1041000115000	BRACKET - REAR INDICATOR - CNC - RH	C015	BRACKET		Black	1
11	MPT-0292	1171000086300	INDICATOR - REAR - LED - CNC - RH - BLACK	C102	INDICATOR		Black	1
11-B	MPT-1420	1171000049000	INDICATOR - FLEXI-LED - REAR - RH	C102	INDICATOR		No Colour	1
12	MPT-0842	7012808035268	BOLT - M8x35	C012	BOLT	M8x35	No Colour	2
13	MPT-0906	7032608000247	HEX NUT - FLANGED - M8	C118	NUT	M8	No Colour	2
14	MPT-0963	7670205000009	CLIP NUT - M5	C044	CLIP NUT	M5	No Colour	2
15	MPT-0886	7024005014159	PHILLIPS LARGE FLAT HEAD SCREW - M5x14	C152	SCREW	M5x14	No Colour	2
16	MPT-0917	7050206181638	WASHER - 6x18x1.6	C206	WASHER	6x18x1.6	No Colour	4
17	MPT-0331	1220300143000	INNER FENDER - REAR - PLASTIC	C128	PLASTIC INNER		No Colour	1
18-B	MPT-0365	1251400117571	SIDE PANEL - SUNKEN - LH - MATT BLACK	C161	SIDE PANEL		Black	1
18-B	MPT-1421	1251400117309	SIDE PANEL - SUNKEN - LH - COOL GLOSS GREY	C161	SIDE PANEL		Cool Gloss Grey	1
19	MPT-0388	1260300160000	RUBBER RING A - SIDE PANEL	C149	RUBBER RING		No Colour	5
20-B	MPT-0366	1251400125012	SIDE PANEL - SUNKEN - RH - MATT BLACK	C161	SIDE PANEL		Black	1
20-B	MPT-1422	1251400125022	SIDE PANEL - SUNKEN - RH - COOL GLOSS GREY	C161	SIDE PANEL		Cool Gloss Grey	1
21	MPT-0389	1260300170000	RUBBER RING D - SIDE PANEL	C149	RUBBER RING		No Colour	2
22	MPT-0053	1041000084002	BRACKET - REAR REFLECTOR	C015	BRACKET		No Colour	1
23	MPT-0423	1261400940000	REFLECTOR - REAR	C137	REFLECTOR	M6	No Colour	1
24	MPT-0428	1263200090000	ROUND RUBBER PAD	C148	RUBBER PAD		No Colour	1
25	MPT-0966	9890021000966	BUFFER RUBBER	C021	BUFFER RUBBER		No Colour	1
26	MPT-0056	1041000090002	BRACKET - TAIL LIGHT - BLACK	C015	BRACKET		Black	1
27	MPT-0905	7032606000248	HEX NUT - FLANGED - M6	C118	NUT	M6	No Colour	8
28	MPT-0858	7013006020268	HEX BOLT - FLANGED - M6x20	C012	BOLT	M6x20	No Colour	1
29	MPT-0949	7513706012260	LARGE HEXAGONAL FLAT HEAD SCREW - M6x12	C152	SCREW	M6x12	No Colour	2
30	MPT-0048	1041000080004	CLAMP PLATE - REAR FENDER	C042	CLAMP PLATE		No Colour	1
31	MPT-0862	7013006035268	HEX BOLT - FLANGED - M6x35	C012	BOLT	M6x35	No Colour	2
32	MPT-0427	1261700060000	RUBBER PAD - TAIL LIGHT BRACKET	C148	RUBBER PAD		No Colour	1

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DIAGRAM REF.	GROUP REF.	GROUP
F03A	F03	ELECTRICS

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-0306	1181000060100	HORN	C099	HORN		No Colour	1
2	MPT-0794	6301088000004	BOLT - M8x12x1.25	C012	BOLT	M8x12x1.25	No Colour	1
3	MPT-1442	1180400954000	WIRING LOOM - MTN - 2022 - SF	C209	WIRING LOOM		No Colour	1
4	MPT-0309	1181400040000	REGULATOR/RECTIFIER	C138	REGULATOR/RECTIFIER		No Colour	1
5	MPT-0855	7013006012268	HEX BOLT - FLANGED - M6x12	C012	BOLT	M6x12	No Colour	2
6	MPT-0862	7013006035268	HEX BOLT - FLANGED - M6x35	C012	BOLT	M6x35	No Colour	1
7	MPT-0296	1180300018100	IGNITION COIL - WITHOUT CABLE	C101	IGNITOR		No Colour	1
8	MPT-0905	7032606000248	HEX NUT - FLANGED - M6	C118	NUT	M6	No Colour	1
9	MPT-0310	1181400060000	INDICATOR RELAY - LED - 12V	C139	RELAY		No Colour	1
10	MPT-0307	1181400001000	FUEL PUMP RELAY	C139	RELAY		No Colour	3
11	MPT-0298	1180300030000	STARTER RELAY	C181	STARTER RELAY		No Colour	1
12	MPT-0855	7013006012268	HEX BOLT - FLANGED - M6x12	C012	BOLT	M6x12	No Colour	2
13	MPT-0315	1183800085100	WIRING LOOM - ABS	C209	WIRING LOOM		No Colour	1
14	MPT-0111	1041701130000	BRACKET - STARTER RELAY	C015	BRACKET		No Colour	1
15	MPT-1255	1114200040000	ECU - 250	C070	ECU		No Colour	1
16	MPT-0856	7013006016179	HEX BOLT - FLANGED - M6x16	C012	BOLT	M6x16	No Colour	2
17	MPT-0905	7032606000248	HEX NUT - FLANGED - M6	C118	NUT	M6	No Colour	2
18	MPT-0297	1180300018300	IGNITION COIL CABLE	C101	IGNITOR		No Colour	1
19	MPT-0470	1650400002000	SPARK PLUG CAP - NGK	C168	SPARK PLUG		No Colour	1

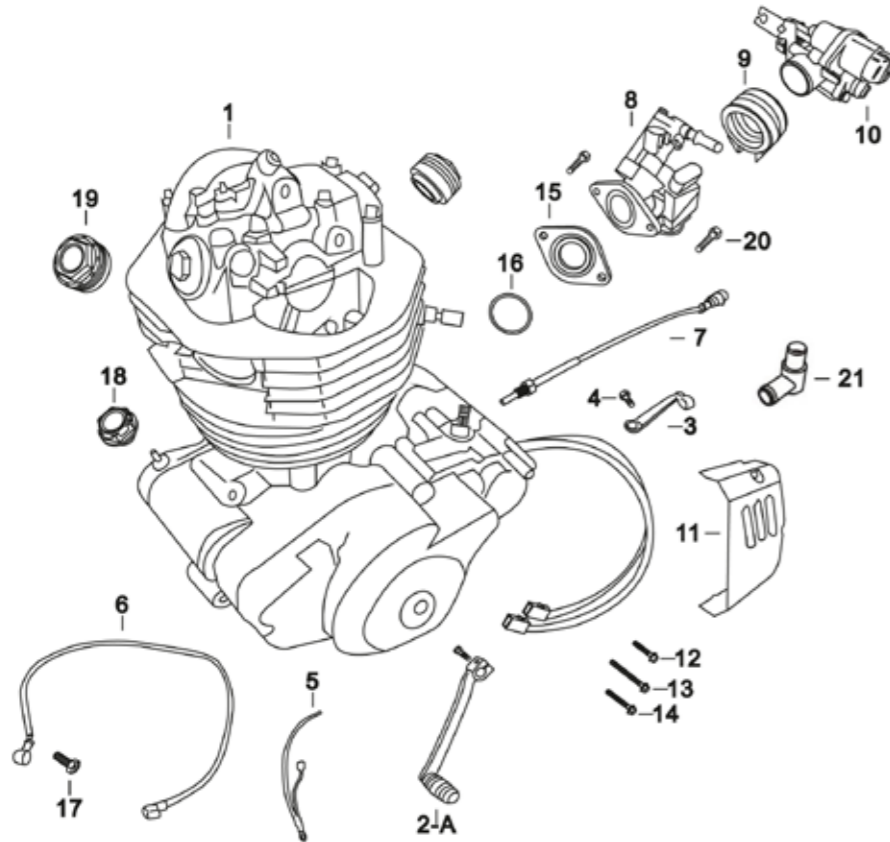


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ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F04A	F04	ENGINE

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-1256	6101130211205	ENGINE - GS250 - BLACK	C072	ENGINE		Black	1
2-A	MPT-0035	1040300483100	GEAR LEVER - BLACK	C109	LEVER		Black	1
2-A	MPT-0034	1040300483000	GEAR LEVER - SILVER	C109	LEVER		Chrome	1
3	MPT-0566	6260025090000	CLUTCH ARM	C046	CLUTCH ARM		No Colour	1
4	MPT-0947	7512406020164	CLUTCH ROCKER HEX SCREW - M6x20	C152	SCREW	M6x20	No Colour	1
5	MPT-0965	1180200080000	NEGATIVE WIRE	C208	WIRE		No Colour	1
6	MPT-0302	1180400102000	STARTER MOTOR WIRE	C208	WIRE	1050mm	No Colour	1
7	MPT-0181	1114111002000	CYLINDER WALL TEMPERATURE SENSOR	C159	SENSOR		No Colour	1
8	MPT-0479	6202040012000	FUEL INJECTOR ASSEMBLY	C085	FUEL INJECTOR ASSEMBLY		No Colour	1
8-1	MPT-0589	6260030062200	O-RING - FUEL INJECTION - ORANGE RUBBER	C119	O-RING		No Colour	1
8-2	MPT-0341	1223904030000	AIR TEMPERATURE (PRESSURE) SENSOR	C159	SENSOR		No Colour	1
8-3	MPT-0342	1223904040000	THROTTLE POSITION SENSOR	C159	SENSOR		No Colour	1
8-4	MPT-0344	1223904060000	AIR IDLE SENSOR (IDLE STEP MOTOR)	C159	SENSOR		No Colour	1
9	MPT-0590	6260030066000	RUBBER HOOP (WITH CLAMPS)	C147	RUBBER HOOP		No Colour	1
10	MPT-0188	1114111006200	THROTTLE BODY	C197	THROTTLE		No Colour	1
11	MPT-0489	6250003004002	SPROCKET COVER	C178	SPROCKET COVER		No Colour	1
12	MPT-0821	7012805020158	HEX BOLT - FLANGED - M5x20	C012	BOLT	M5x20	No Colour	1
13	MPT-0828	7012805050158	HEX BOLT - FLANGED - M5x50	C012	BOLT	M5x50	No Colour	1
14	MPT-0825	7012805030158	HEX BOLT - FLANGED - M5x30	C012	BOLT	M5x30	No Colour	1
15	MPT-0586	6260030062000	SPACER - FUEL INJECTION - PLASTIC	C166	SPACER		No Colour	1
16	MPT-0587	6260030062001	O-RING - FUEL INJECTION - BLACK RUBBER	C119	O-RING		Black	1
17	MPT-0803	7011005010158	CROSS RECESSED HEX BOLT - M5x10	C012	BOLT	M5x10	No Colour	1
18	MPT-0492	6260010020001	OIL FILLER CAP - CNC - BLACK	C121	OIL FILLER CAP		Black	1
19	MPT-0765	6261025080000	ENGINE VALVE COVER - CNC - BLACK	C204	VALVE COVER		Black	2
20	MPT-0810	7012406020164	HEX BOLT - M6x20	C012	BOLT	M6x20	No Colour	2
21	MPT-0800	6302000000000	CRANKCASE BREATHER FITTING	C057	CRANKCASE BREATHER FITTING		No Colour	1

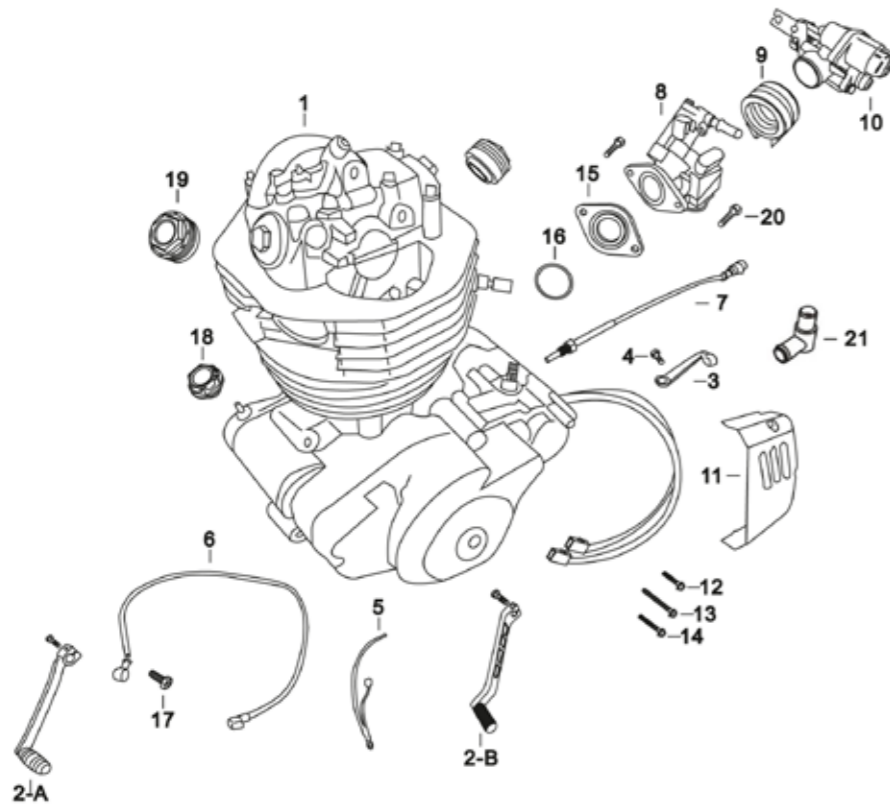


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ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F04B	F04	ENGINE

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-1256	6101130211205	ENGINE - GS250 - BLACK	C072	ENGINE		Black	1
2-B	MPT-0037	1040300489003	GEAR LEVER - CNC - BLACK	C109	LEVER		Black	1
3	MPT-0566	6260025090000	CLUTCH ARM	C046	CLUTCH ARM		No Colour	1
4	MPT-0947	7512406020164	CLUTCH ROCKER HEX SCREW - M6x20	C152	SCREW	M6x20	No Colour	1
5	MPT-0965	1180200080000	NEGATIVE WIRE	C208	WIRE		No Colour	1
6	MPT-0302	1180400102000	STARTER MOTOR WIRE	C208	WIRE	1050mm	No Colour	1
7	MPT-0181	1114111002000	CYLINDER WALL TEMPERATURE SENSOR	C159	SENSOR		No Colour	1
8	MPT-0479	6202040012000	FUEL INJECTOR ASSEMBLY	C085	FUEL INJECTOR ASSEMBLY		No Colour	1
8-1	MPT-0589	6260030062200	O-RING - FUEL INJECTION - ORANGE RUBBER	C119	O-RING		No Colour	1
8-2	MPT-0341	1223904030000	AIR TEMPERATURE (PRESSURE) SENSOR	C159	SENSOR		No Colour	1
8-3	MPT-0342	1223904040000	THROTTLE POSITION SENSOR	C159	SENSOR		No Colour	1
8-4	MPT-0344	1223904060000	AIR IDLE SENSOR (IDLE STEP MOTOR)	C159	SENSOR		No Colour	1
9	MPT-0590	6260030066000	RUBBER HOOP (WITH CLAMPS)	C147	RUBBER HOOP		No Colour	1
10	MPT-0188	1114111006200	THROTTLE BODY	C197	THROTTLE		No Colour	1
11	MPT-0489	6250003004002	SPROCKET COVER	C178	SPROCKET COVER		No Colour	1
12	MPT-0821	7012805020158	HEX BOLT - FLANGED - M5x20	C012	BOLT	M5x20	No Colour	1
13	MPT-0828	7012805050158	HEX BOLT - FLANGED - M5x50	C012	BOLT	M5x50	No Colour	1
14	MPT-0825	7012805030158	HEX BOLT - FLANGED - M5x30	C012	BOLT	M5x30	No Colour	1
15	MPT-0586	6260030062000	SPACER - FUEL INJECTION - PLASTIC	C166	SPACER		No Colour	1
16	MPT-0587	6260030062001	O-RING - FUEL INJECTION - BLACK RUBBER	C119	O-RING		Black	1
17	MPT-0803	7011005010158	CROSS RECESSED HEX BOLT - M5x10	C012	BOLT	M5x10	No Colour	1
18	MPT-0492	6260010020001	OIL FILLER CAP - CNC - BLACK	C121	OIL FILLER CAP		Black	1
19	MPT-0765	6261025080000	ENGINE VALVE COVER - CNC - BLACK	C204	VALVE COVER		Black	2
20	MPT-0810	7012406020164	HEX BOLT - M6x20	C012	BOLT	M6x20	No Colour	2
21	MPT-0800	6302000000000	CRANKCASE BREATHER FITTING	C057	CRANKCASE BREATHER FITTING		No Colour	1

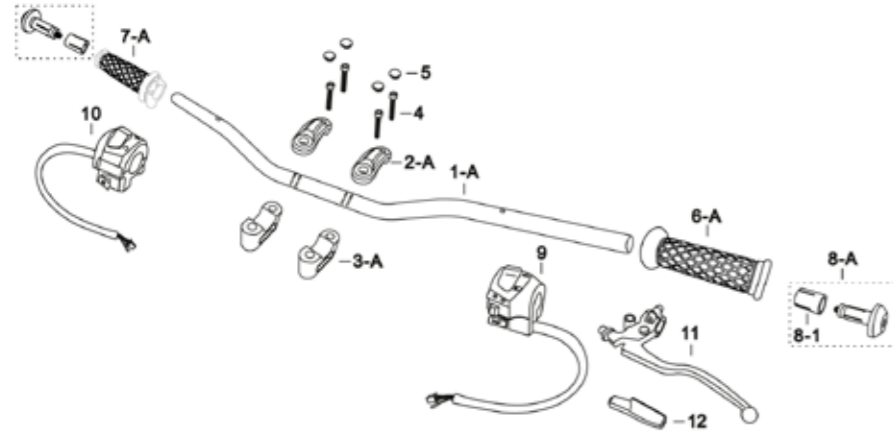


250EU502-F05A

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F05A	F05	HANDLEBARS

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-A	MPT-0241	1130100083000	HANDLEBAR - MUTT - MATT BLACK	C095	HANDLEBAR		Matt Black	1
2-A	MPT-0236	1130100077920	HANDLEBAR MOUNT - TOP - CNC - BLACK	C117	MOUNT		Black	2
3-A	MPT-0237	1130100078020	HANDLEBAR MOUNT - LOWER - CNC - BLACK	C117	MOUNT		Black	2
4	MPT-0892	7024908055167	HEX SOCKET HEAD SCREW - M8x55	C152	SCREW	M8x55	No Colour	4
5	MPT-0115	1051000050000	BUTTON - BLACK	C024	BUTTON		Black	4
6-A	MPT-0414	1261400032000	GRIP - LEFT BAR - BROWN	C092	GRIP		Brown	1
7-A	MPT-0417	1261400044000	GRIP - RIGHT BAR - BROWN	C092	GRIP		Brown	1
8-A	MPT-0244	1139900015000	HANDLEBAR END - BLACK - INCLUDES SLEEVE	C096	HANDLEBAR END		Black	2
8-1	MPT-0243	1139900008300	HANDLEBAR SLEEVE - OUTSIDE ONE	C165	SLEEVE		Brushed Aluminium	2
9	MPT-0300	1180300123000	SWITCHGEAR - LH	C219	SWITCHGEAR		No Colour	1
10	MPT-0301	1180300233000	SWITCHGEAR - RH	C219	SWITCHGEAR		No Colour	1
11	MPT-0295	1180200115100	CLUTCH LEVER ASSEMBLY	C109	LEVER		Black	1
12	MPT-0377	1260200010000	CLUTCH CABLE SHEATH	C048	CLUTCH CABLE SHEATH		No Colour	1

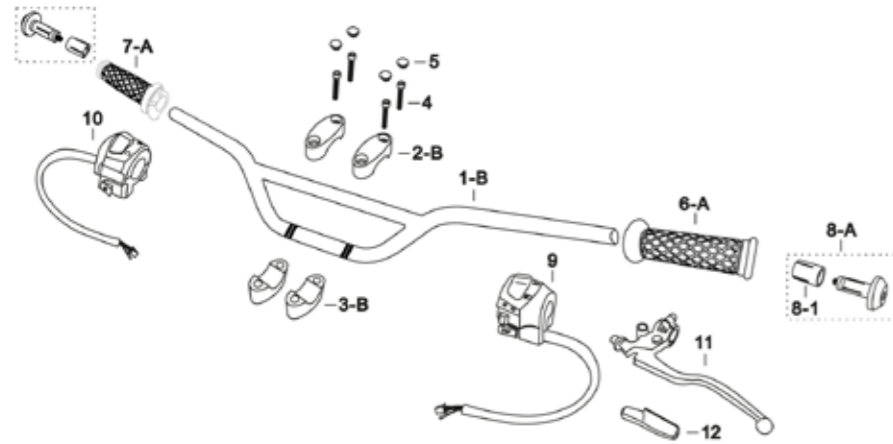


250EU502-F05B

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F05B	F05	HANDLEBARS

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-B	MPT-0242	1130100084000	HANDLEBAR - CROSSBAR - BLACK	C095	HANDLEBAR		Black	1
2-B	MPT-0234	1130100077720	HANDLEBAR MOUNT - TOP - BLACK	C117	MOUNT		Black	2
3-B	MPT-0235	1130100077820	HANDLEBAR MOUNT - LOWER - BLACK	C117	MOUNT		Black	2
4	MPT-0892	7024908055167	HEX SOCKET HEAD SCREW - M8x55	C152	SCREW	M8x55	No Colour	4
5	MPT-0115	1051000050000	BUTTON - BLACK	C024	BUTTON		Black	4
6-A	MPT-0415	1261400033000	GRIP - LEFT BAR - BLACK	C092	GRIP		Black	1
7-A	MPT-0418	1261400045000	GRIP - RIGHT BAR - BLACK	C092	GRIP		Black	1
8-A	MPT-0244	1139900015000	HANDLEBAR END - BLACK - INCLUDES SLEEVE	C096	HANDLEBAR END		Black	2
9	MPT-0300	1180300123000	SWITCHGEAR - LH	C219	SWITCHGEAR		No Colour	1
10	MPT-0301	1180300233000	SWITCHGEAR - RH	C219	SWITCHGEAR		No Colour	1
11	MPT-0295	1180200115100	CLUTCH LEVER ASSEMBLY	C109	LEVER		Black	1
12	MPT-0377	1260200010000	CLUTCH CABLE SHEATH	C048	CLUTCH CABLE SHEATH		No Colour	1

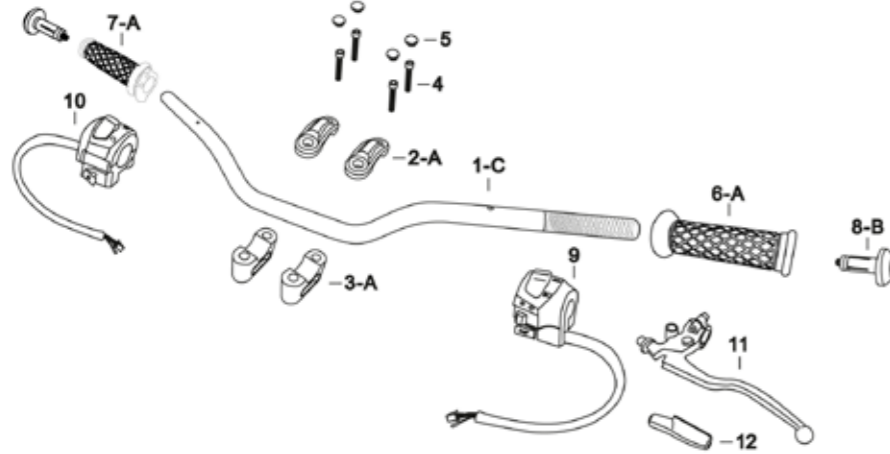


250EU502-F05C

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F05C	F05	HANDLEBARS

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-C	MPT-0239	1130100080200	HANDLEBAR - MUTT - BLACK	C095	HANDLEBAR	730mm,ø22mm	Matt Black	1
1-C	MPT-0238	1130100080100	HANDLEBAR - MUTT - BRUSHED (POLISHED)	C095	HANDLEBAR	730mm,ø22mm	Polished Aluminium	1
1-C	MPT-0240	1130100080300	HANDLEBAR - MUTT - BRUSHED (MATT)	C095	HANDLEBAR	730mm,ø22mm	Polished Aluminium	1
2-A	MPT-0236	1130100077920	HANDLEBAR MOUNT - TOP - CNC - BLACK	C117	MOUNT		Black	2
3-A	MPT-0237	1130100078020	HANDLEBAR MOUNT - LOWER - CNC - BLACK	C117	MOUNT		Black	2
4	MPT-0892	7024908055167	HEX SOCKET HEAD SCREW - M8x55	C152	SCREW	M8x55	No Colour	4
5	MPT-0115	1051000050000	BUTTON - BLACK	C024	BUTTON		Black	4
6-A	MPT-0414	1261400032000	GRIP - LEFT BAR - BROWN	C092	GRIP		Brown	1
6-A	MPT-0415	1261400033000	GRIP - LEFT BAR - BLACK	C092	GRIP		Black	1
7-A	MPT-0417	1261400044000	GRIP - RIGHT BAR - BROWN	C092	GRIP		Brown	1
7-A	MPT-0418	1261400045000	GRIP - RIGHT BAR - BLACK	C092	GRIP		Black	1
8-B	MPT-0245	1139900016000	HANDLEBAR END - MUTT-R - BLACK	C096	HANDLEBAR END		Black	2
9	MPT-0300	1180300123000	SWITCHGEAR - LH	C219	SWITCHGEAR		No Colour	1
10	MPT-0301	1180300233000	SWITCHGEAR - RH	C219	SWITCHGEAR		No Colour	1
11	MPT-0295	1180200115100	CLUTCH LEVER ASSEMBLY	C109	LEVER		Black	1
11-1	MPT-1428	1141400015020	CLUTCH LEVER - CNC	C109	LEVER		No Colour	1
11-2	MPT-1429	1180200115200	CONNECTOR - CLUTCH LEVER - CNC	C109	LEVER		No Colour	1
12	MPT-0377	1260200010000	CLUTCH CABLE SHEATH	C048	CLUTCH CABLE SHEATH		No Colour	1

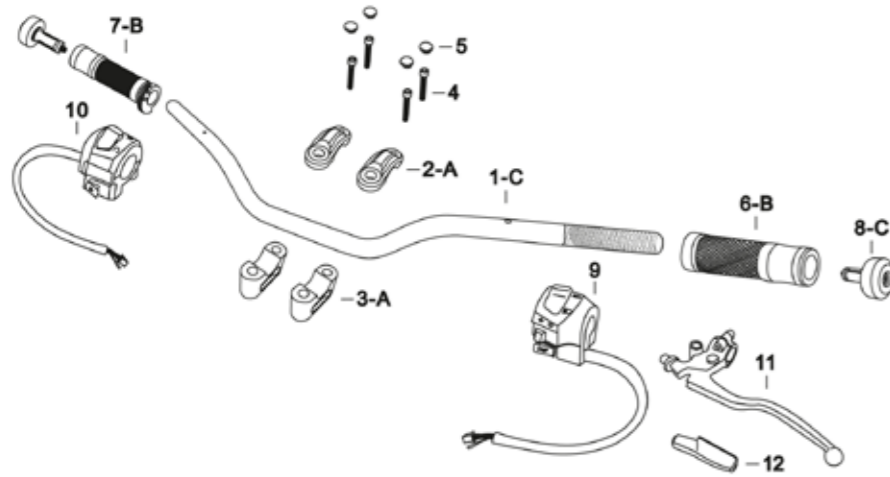


250EU502-F05D

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F05D	F05	HANDLEBARS

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-C	MPT-0239	1130100080200	HANDLEBAR - MUTT - BLACK	C095	HANDLEBAR	730mm,ø22mm	Matt Black	1
2-A	MPT-0236	1130100077920	HANDLEBAR MOUNT - TOP - CNC - BLACK	C117	MOUNT		Black	2
3-A	MPT-0237	1130100078020	HANDLEBAR MOUNT - LOWER - CNC - BLACK	C117	MOUNT		Black	2
4	MPT-0892	7024908055167	HEX SOCKET HEAD SCREW - M8x55	C152	SCREW	M8x55	No Colour	4
5	MPT-0115	1051000050000	BUTTON - BLACK	C024	BUTTON		Black	4
6-B	MPT-0416	1261400033100	GRIP - LEFT BAR - 2020 - BLACK	C092	GRIP		Black	1
7-B	MPT-0419	1261400045100	GRIP - RIGHT BAR - 2020 - BLACK	C092	GRIP		Black	1
8-C	MPT-0246	1139900018000	HANDLEBAR END - MUTT-R - 2020 - BLACK	C096	HANDLEBAR END		Black	2
9	MPT-0300	1180300123000	SWITCHGEAR - LH	C219	SWITCHGEAR		No Colour	1
10	MPT-0301	1180300233000	SWITCHGEAR - RH	C219	SWITCHGEAR		No Colour	1
11	MPT-0295	1180200115100	CLUTCH LEVER ASSEMBLY	C109	LEVER		Black	1
12	MPT-0377	1260200010000	CLUTCH CABLE SHEATH	C048	CLUTCH CABLE SHEATH		No Colour	1

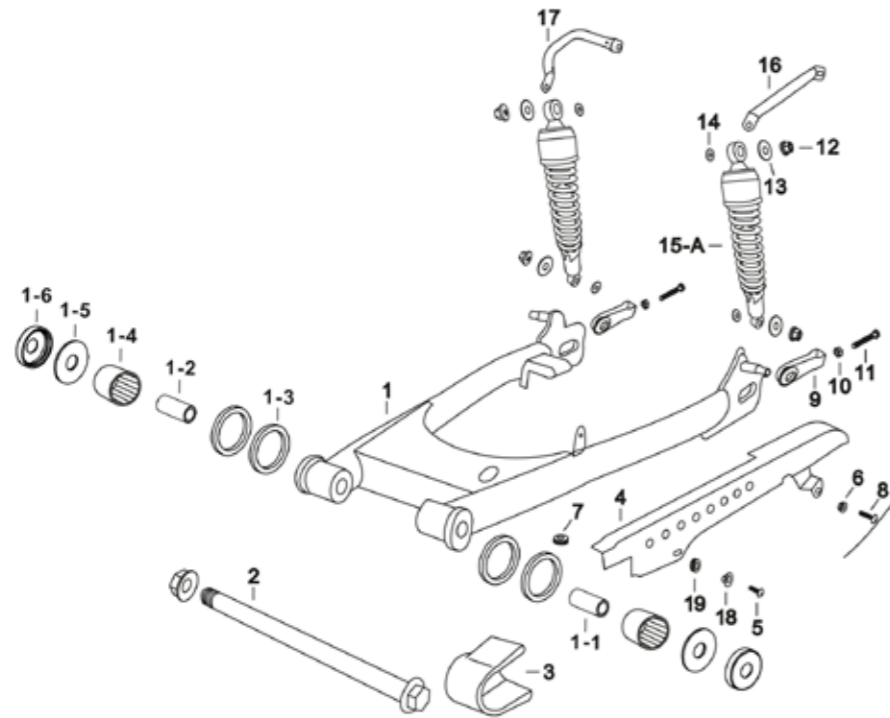


250EU502-F06A

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F06A	F06	SWINGARM & REAR SHOCKS

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-1443	1041400395000	SWINGARM - REAR - COMPLETE - 2022 - SF	C187	SWINGARM		No Colour	1
1-1	MPT-0442	1511000013000	INNER BUSHING - LH	C023	BUSHING		No Colour	1
1-2	MPT-0443	1511000014000	INNER BUSHING - RH	C023	BUSHING		No Colour	1
1-3	MPT-0444	1511000015000	OIL SEAL	C124	OIL SEAL		No Colour	4
1-4	MPT-0447	1550100016310	SWINGARM - NEEDLE ROLLER BEARINGS	C011	BEARING	∅20x∅27x30mm	No Colour	2
1-5	MPT-0446	1511400080000	INNER WASHER	C206	WASHER		No Colour	2
1-6	MPT-0445	1511000016000	DUST COVER	C054	COVER		No Colour	2
2	MPT-0024	1040100128000	SWINGARM SHAFT	C188	SWINGARM SHAFT		No Colour	1
3	MPT-0395	1260300291000	CHAIN SLIDER - HIGHER	C039	CHAIN SLIDER		No Colour	1
4	MPT-0333	1221000021000	CHAIN GUARD	C038	CHAIN GUARD		No Colour	1
5	MPT-0943	7511806016164	CROSS LARGE FLAT HEAD SCREW - M6x16	C152	SCREW	M6x16	No Colour	1
6	MPT-0905	7032606000248	HEX NUT - FLANGED - M6	C118	NUT	M6	No Colour	1
7	MPT-0390	1260300190000	RUBBER RING - CHAIN GUARD	C149	RUBBER RING		No Colour	1
8	MPT-0885	7023906030164	CROSS LARGE FLAT HEAD SCREW - M6x25	C152	SCREW	M6x25	No Colour	1
9	MPT-0032	1040300351000	CHAIN ADJUSTER - STAINLESS STEEL	C037	CHAIN ADJUSTER		Stainless Steel	2
10	MPT-0897	7031908000248	HEX NUT - M8	C118	NUT	M8	No Colour	2
11	MPT-0959	7630308050268	HEX BOLT - M8x50	C012	BOLT	M8x50	No Colour	2
12	MPT-0908	7033710000245	CAP NUT - CNC - BLACK - M10x1.25	C034	CAP NUT	M10x1.25	Black	4
12	MPT-0909	7033710000246	CAP NUT - CNC - BRUSHED - M10x1.25	C034	CAP NUT	M10x1.25	Brushed Aluminium	4
13	MPT-0918	7050210302538	WASHER - 10x30x2.5	C206	WASHER	10x30x2.5	No Colour	4
14	MPT-0921	7050312242538	WASHER - 12x24x2.5	C206	WASHER	12x24x2.5	No Colour	4
15-A	MPT-0167	1100400056309	SHOCK - REAR - 370MM - X - BLACK	C136	REAR SHOCK	370mm	Black	2
15-A	MPT-0168	1100400056409	SHOCK - REAR - 370MM - X - CHROME	C136	REAR SHOCK	370mm	Chrome	2
16	MPT-0078	1041400123400	GRABRAIL - REAR - BLACK - LH	C007	GRABRAIL		Black	1
16	MPT-0075	1041400123000	GRABRAIL - REAR - CHROME - LH	C007	GRABRAIL		Chrome	1
17	MPT-0077	1041400123300	GRABRAIL - REAR - BLACK - RH	C007	GRABRAIL		Black	1
17	MPT-0076	1041400123100	GRABRAIL - REAR - CHROME - RH	C007	GRABRAIL		Chrome	1
18	MPT-0382	1260300060000	BATTERY BUSH BRACE - SMALL	C022	BUSH BRACE	SMALL	No Colour	1
19	MPT-0384	1260300070000	RUBBER GROMMET - BATTERY	C146	RUBBER GROMMET	∅9x∅13x20x8.8mm	No Colour	1

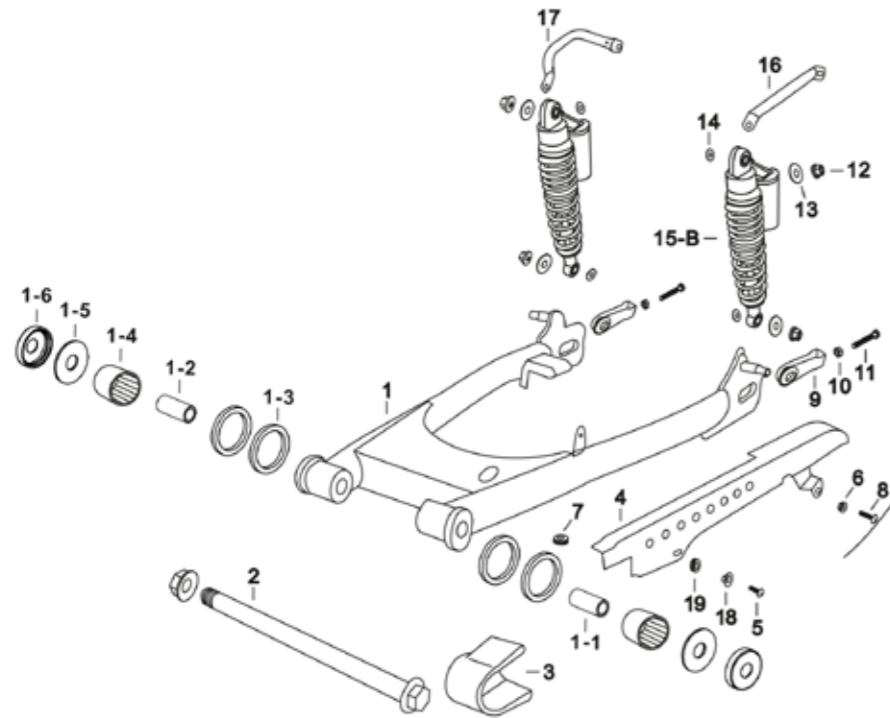


250EU502-F06B

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F06B	F06	SWINGARM & REAR SHOCKS

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-1443	1041400395000	SWINGARM - REAR - COMPLETE - 2022 - SF	C187	SWINGARM		No Colour	1
1-1	MPT-0442	1511000013000	INNER BUSHING - LH	C023	BUSHING		No Colour	1
1-2	MPT-0443	1511000014000	INNER BUSHING - RH	C023	BUSHING		No Colour	1
1-3	MPT-0444	1511000015000	OIL SEAL	C124	OIL SEAL		No Colour	4
1-4	MPT-0447	1550100016310	SWINGARM - NEEDLE ROLLER BEARINGS	C011	BEARING	∅20x∅27x30mm	No Colour	2
1-5	MPT-0446	1511400080000	INNER WASHER	C206	WASHER		No Colour	2
1-6	MPT-0445	1511000016000	DUST COVER	C054	COVER		No Colour	2
2	MPT-0024	1040100128000	SWINGARM SHAFT	C188	SWINGARM SHAFT		No Colour	1
3	MPT-0395	1260300291000	CHAIN SLIDER - HIGHER	C039	CHAIN SLIDER		No Colour	1
4	MPT-0333	1221000021000	CHAIN GUARD	C038	CHAIN GUARD		No Colour	1
5	MPT-0943	7511806016164	CROSS LARGE FLAT HEAD SCREW - M6x16	C152	SCREW	M6x16	No Colour	1
6	MPT-0905	7032606000248	HEX NUT - FLANGED - M6	C118	NUT	M6	No Colour	1
7	MPT-0390	1260300190000	RUBBER RING - CHAIN GUARD	C149	RUBBER RING		No Colour	1
8	MPT-0885	7023906030164	CROSS LARGE FLAT HEAD SCREW - M6x25	C152	SCREW	M6x25	No Colour	1
9	MPT-0032	1040300351000	CHAIN ADJUSTER - STAINLESS STEEL	C037	CHAIN ADJUSTER		Stainless Steel	2
10	MPT-0897	7031908000248	HEX NUT - M8	C118	NUT	M8	No Colour	2
11	MPT-0959	7630308050268	HEX BOLT - M8x50	C012	BOLT	M8x50	No Colour	2
12	MPT-0908	7033710000245	CAP NUT - CNC - BLACK - M10x1.25	C034	CAP NUT	M10x1.25	Black	4
13	MPT-0918	7050210302538	WASHER - 10x30x2.5	C206	WASHER	10x30x2.5	No Colour	4
14	MPT-0921	7050312242538	WASHER - 12x24x2.5	C206	WASHER	12x24x2.5	No Colour	4
15-B	MPT-0164	1100400055922	SHOCK - REAR - 370MM - PIGGY BACK - BLACK	C136	REAR SHOCK	370mm	Black	2
16	MPT-0078	1041400123400	GRABRAIL - REAR - BLACK - LH	C007	GRABRAIL		Black	1
17	MPT-0077	1041400123300	GRABRAIL - REAR - BLACK - RH	C007	GRABRAIL		Black	1
18	MPT-0382	1260300060000	BATTERY BUSH BRACE - SMALL	C022	BUSH BRACE	SMALL	No Colour	1
19	MPT-0384	1260300070000	RUBBER GROMMET - BATTERY	C146	RUBBER GROMMET	∅9x∅13x20x8.8mm	No Colour	1

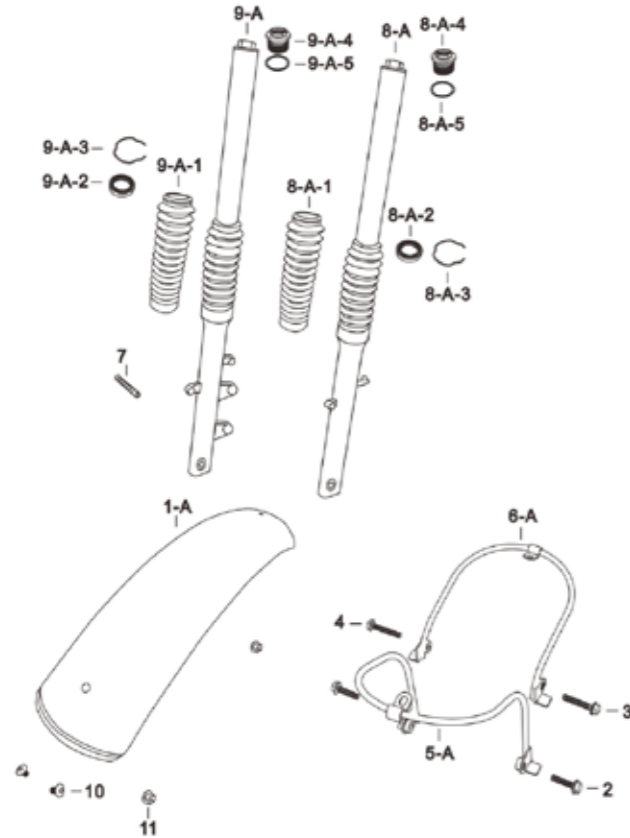


250EU502-F07A

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F07A	F07	FRONT FENDER & FRONT FORK

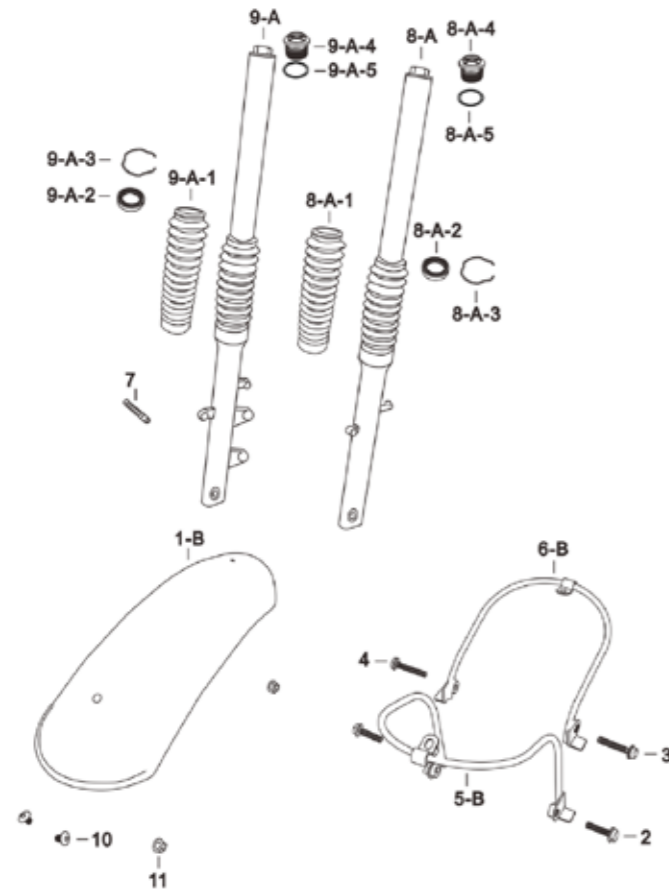
ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-A	MPT-0103	1041400492200	FENDER - FRONT - STANDARD - MATT BLACK	C082	FRONT FENDER	L=412mmxW=102mm	Matt Black	1
1-A	MPT-0101	1041400492001	FENDER - FRONT - STANDARD - GREY	C082	FRONT FENDER	L=412mmxW=102mm	Gloss Grey	1
1-A	MPT-0102	1041400492002	FENDER - FRONT - STANDARD - MATT GREEN	C082	FRONT FENDER	L=412mmxW=102mm	Matt Green	1
2	MPT-0860	7013006025169	HEX BOLT - FLANGED - M6x25	C012	BOLT	M6x25	No Colour	2
3	MPT-0861	7013006030268	HEX BOLT - FLANGED - M6x30	C012	BOLT	M6x30	No Colour	1
4	MPT-0862	7013006035268	HEX BOLT - FLANGED - M6x35	C012	BOLT	M6x35	No Colour	1
5-A	MPT-1222	1041400471000	BRACKET - FRONT FENDER (STANDARD) - FRONT SECTION	C015	BRACKET		Black	1
6-A	MPT-1223	1041400472000	BRACKET - FRONT FENDER (STANDARD) - BACK SECTION	C015	BRACKET		Black	1
7	MPT-0396	1260300330000	CLAMP	C041	CLAMP	ø8.5x17x75	No Colour	1
8-A	MPT-0173	1101400031000	FRONT FORK - 790MM WITH CNC BLACK CAP - LH	C083	FRONT FORK	790mm	Black	1
9-A	MPT-0178	1101400042000	FRONT FORK - 790MM WITH CNC BLACK CAP - RH	C083	FRONT FORK	790mm	Black	1
8-9-A-1	MPT-0459	1571400032000	FRONT FORK BOOTS - FIT 790MM	C014	BOOTS		No Colour	2
8-9-A-2	MPT-0456	1571000031000	SEAL - FRONT FORK	C153	SEAL	ø37	No Colour	2
8-9-A-3	MPT-0457	1571000032000	FRONT FORK SEAL RETAINER	C154	SEAL RETAINER	ø37	No Colour	2
8-9-A-4	MPT-0174	1101400031100	FORK CAP - CNC - BLACK	C078	FORK FRONT CAP		Black	2
8-9-A-5	MPT-0176	1101400031300	SEAL RING - FORK CAP	C155	SEAL RING		Black	2
10	MPT-0949	7513706012260	LARGE HEXAGONAL FLAT HEAD SCREW - M6x12	C152	SCREW	M6x12	No Colour	2
11	MPT-0905	7032606000248	HEX NUT - FLANGED - M6	C118	NUT	M6	No Colour	2



250EU502-F07B

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F07B	F07	FRONT FENDER & FRONT FORK

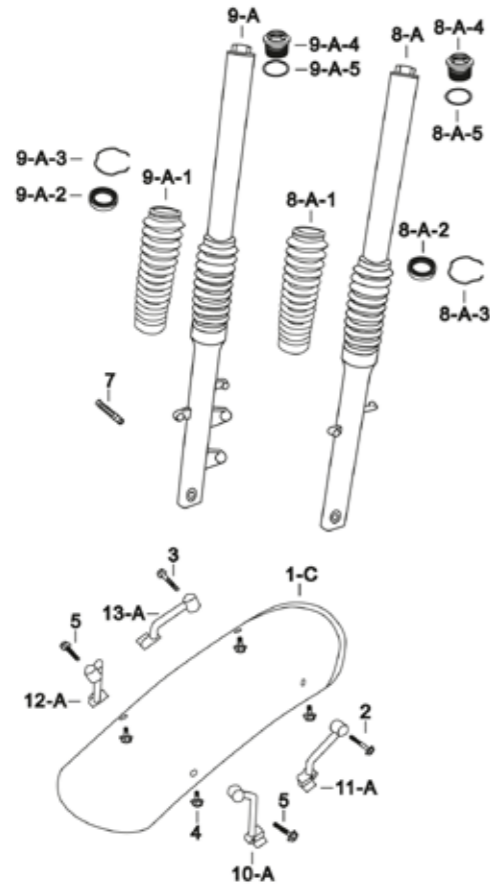


ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-B	MPT-0104	1041400493004	FENDER - FRONT - SHORT - MATT BLACK	C082	FRONT FENDER	L=380mmxW=122mm	Matt Black	1
1-B	MPT-0105	1041400494000	FENDER - FRONT - SHORT - BRUSHED	C082	FRONT FENDER	L=380mmxW=122mm	Brushed Aluminium	1
1-B	MPT-1190	1041400493002	FENDER - FRONT - SHORT - MATT GREEN	C135	REAR FENDER		Gloss Grey	1
2	MPT-0860	7013006025169	HEX BOLT - FLANGED - M6x25	C012	BOLT	M6x25	No Colour	2
3	MPT-0861	7013006030268	HEX BOLT - FLANGED - M6x30	C012	BOLT	M6x30	No Colour	1
4	MPT-0862	7013006035268	HEX BOLT - FLANGED - M6x35	C012	BOLT	M6x35	No Colour	1
5-B	MPT-1224	1041400473000	BRACKET - FRONT FENDER (SHORT) - FRONT SECTION	C015	BRACKET		Black	1
6-B	MPT-1225	1041400474000	BRACKET - FRONT FENDER (SHORT) - BACK SECTION	C015	BRACKET		Black	1
7	MPT-0396	1260300330000	CLAMP	C041	CLAMP	ø8.5x17x75	No Colour	1
8-A	MPT-0173	1101400031000	FRONT FORK - 790MM WITH CNC BLACK CAP - LH	C083	FRONT FORK	790mm	Black	1
8-A	MPT-0177	1101400041000	FRONT FORK - 790MM WITH CNC BRUSHED CAP - LH	C083	FRONT FORK	790mm	Brushed Aluminium	1
9-A	MPT-0178	1101400042000	FRONT FORK - 790MM WITH CNC BLACK CAP - RH	C083	FRONT FORK	790mm	Black	1
9-A	MPT-0179	1101400052000	FRONT FORK - 790MM WITH CNC BRUSHED CAP - RH	C083	FRONT FORK	790mm	Brushed Aluminium	1
8-9-A-1	MPT-0459	1571400032000	FRONT FORK BOOTS - FIT 790MM	C014	BOOTS		No Colour	2
8-9-A-2	MPT-0456	1571000031000	SEAL - FRONT FORK	C153	SEAL	ø37	No Colour	2
8-9-A-3	MPT-0457	1571000032000	FRONT FORK SEAL RETAINER	C154	SEAL RETAINER	ø37	No Colour	2
8-9-A-4	MPT-0174	1101400031100	FORK CAP - CNC - BLACK	C078	FORK FRONT CAP		Black	2
8-9-A-4	MPT-0175	1101400031200	FORK CAP - CNC - BRUSH	C078	FORK FRONT CAP		Silver	2
8-9-A-5	MPT-0176	1101400031300	SEAL RING - FORK CAP	C155	SEAL RING		Black	2
10	MPT-0949	7513706012260	LARGE HEXAGONAL FLAT HEAD SCREW - M6x12	C152	SCREW	M6x12	No Colour	2
11	MPT-0905	7032606000248	HEX NUT - FLANGED - M6	C118	NUT	M6	No Colour	2

250EU502-F07C

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F07C	F07	FRONT FENDER & FRONT FORK

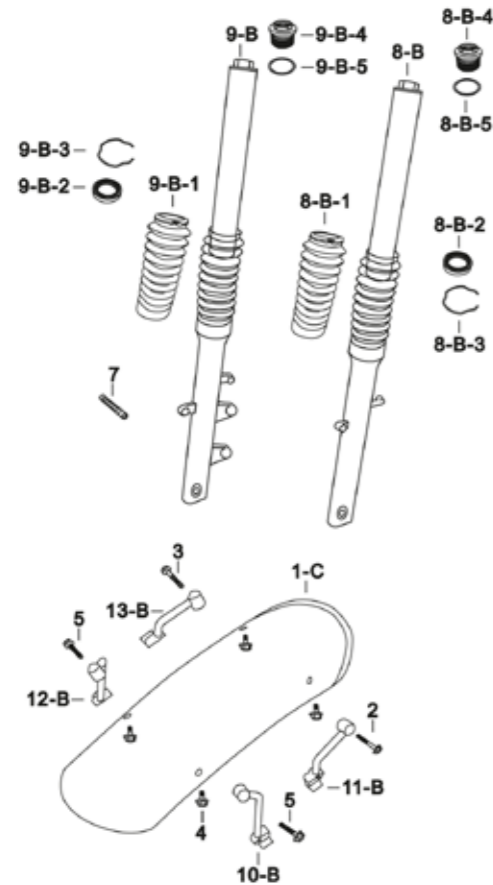


ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-C	MPT-0106	1041400495000	FENDER - FRONT - 2020 - BRUSHED	C082	FRONT FENDER	L=380m-	Brushed Aluminium	1
2	MPT-0861	7013006030268	HEX BOLT - FLANGED - M6x30	C012	BOLT	M6x30	No Colour	1
3	MPT-0862	7013006035268	HEX BOLT - FLANGED - M6x35	C012	BOLT	M6x35	No Colour	1
4	MPT-0855	7013006012268	HEX BOLT - FLANGED - M6x12	C012	BOLT	M6x12	No Colour	4
5	MPT-0860	7013006025169	HEX BOLT - FLANGED - M6x25	C012	BOLT	M6x25	No Colour	2
7	MPT-0396	1260300330000	CLAMP	C041	CLAMP	ø8.5x17x75	No Colour	1
8-A	MPT-0173	1101400031000	FRONT FORK - 790MM WITH CNC BLACK CAP - LH	C083	FRONT FORK	790mm	Black	1
9-A	MPT-0178	1101400042000	FRONT FORK - 790MM WITH CNC BLACK CAP - RH	C083	FRONT FORK	790mm	Black	1
8-9-A-1	MPT-0459	1571400032000	FRONT FORK BOOTS - FIT 790MM	C014	BOOTS		No Colour	2
8-9-A-2	MPT-0456	1571000031000	SEAL - FRONT FORK	C153	SEAL	ø37	No Colour	2
8-9-A-3	MPT-0457	1571000032000	FRONT FORK SEAL RETAINER	C154	SEAL RETAINER	ø37	No Colour	2
8-9-A-4	MPT-0174	1101400031100	FORK CAP - CNC - BLACK	C078	FORK FRONT CAP		Black	2
8-9-A-5	MPT-0176	1101400031300	SEAL RING - FORK CAP	C155	SEAL RING		Black	2
10-A	MPT-1384	1041400461000	BRACKET - FRONT - FRONT FENDER - 18 INCH - LH	C015	BRACKET		Stainless Steel	1
11-A	MPT-1386	1041400462000	BRACKET - REAR - FRONT FENDER - 18 INCH - LH	C015	BRACKET		Stainless Steel	1
12-A	MPT-1388	1041400463000	BRACKET - FRONT - FRONT FENDER - 18 INCH - RH	C015	BRACKET		Stainless Steel	1
13-A	MPT-1390	1041400464000	BRACKET - REAR - FRONT FENDER - 18 INCH - RH	C015	BRACKET		Stainless Steel	1

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DIAGRAM REF.	GROUP REF.	GROUP
F07D	F07	FRONT FENDER & FRONT FORK

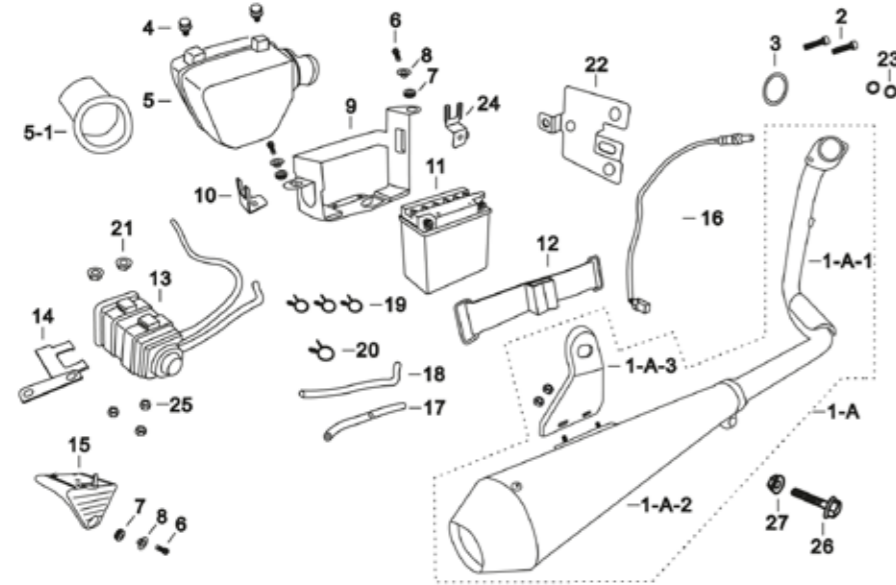


ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-C	MPT-0107	1041400496000	FENDER - FRONT - 2020 - MATT BLACK	C082	FRONT FENDER	L=380mmxW=122mm	Matt Black	1
1-C	MPT-1430	1221400292007	FENDER - FRONT - COOL GLOSS GREY	C082	FRONT FENDER		Cool Gloss Grey	1
2	MPT-0861	7013006030268	HEX BOLT - FLANGED - M6x30	C012	BOLT	M6x30	No Colour	1
3	MPT-0862	7013006035268	HEX BOLT - FLANGED - M6x35	C012	BOLT	M6x35	No Colour	1
4	MPT-0855	7013006012268	HEX BOLT - FLANGED - M6x12	C012	BOLT	M6x12	No Colour	4
5	MPT-0860	7013006025169	HEX BOLT - FLANGED - M6x25	C012	BOLT	M6x25	No Colour	2
7	MPT-0396	1260300330000	CLAMP	C041	CLAMP	ø8.5x17x75	No Colour	1
8-B	MPT-0170	1101400012200	FRONT FORK - 735MM WITH CNC BLACK CAP - LH	C083	FRONT FORK	735mm	Black	1
9-B	MPT-0172	1101400022200	FRONT FORK - 735MM WITH CNC BLACK CAP - RH	C083	FRONT FORK	735mm	Black	1
8-9-B-1	MPT-0458	1571400031000	FRONT FORK BOOTS - FIT 735MM	C014	BOOTS		No Colour	2
8-9-B-2	MPT-0456	1571000031000	SEAL - FRONT FORK	C153	SEAL	ø37	No Colour	2
8-9-B-3	MPT-0457	1571000032000	FRONT FORK SEAL RETAINER	C154	SEAL RETAINER	ø37	No Colour	2
8-9-B-4	MPT-0174	1101400031100	FORK CAP - CNC - BLACK	C078	FORK FRONT CAP		Black	2
8-9-B-5	MPT-0176	1101400031300	SEAL RING - FORK CAP	C155	SEAL RING		Black	2
10-B	MPT-1383	1041400465000	BRACKET - FRONT - FRONT FENDER - 17 INCH - LH	C015	BRACKET		Stainless Steel	1
11-B	MPT-1385	1041400466000	BRACKET - REAR - FRONT FENDER - 17 INCH - LH	C015	BRACKET		Stainless Steel	1
12-B	MPT-1387	1041400467000	BRACKET - FRONT - FRONT FENDER - 17 INCH - RH	C015	BRACKET		Stainless Steel	1
13-B	MPT-1389	1041400468000	BRACKET - REAR - FRONT FENDER - 17 INCH - RH	C015	BRACKET		Stainless Steel	1

250EU502-F08A

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DIAGRAM REF.	GROUP REF.	GROUP
F08A	F08	EXHAUST



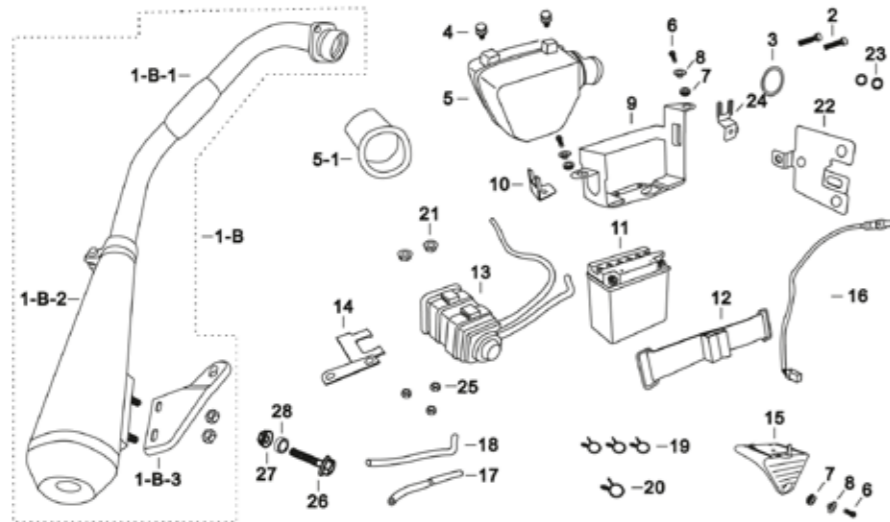
ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-A	MPT-1257	1121400045350	EXHAUST SYSTEM - COMPLETE - QUIET - RH - BLACK	C073	EXHAUST		Black	1
1-A-1	MPT-0229	1123600022000	EXHAUST DOWN PIPE - RH - BLACK	C064	DOWN PIPE		Black	1
1-A-2	MPT-0218	1121400045310	EXHAUST SILENCER - QUIET - RH - BLACK	C163	SILENCER		Black	1
1-A-2	MPT-0219	1121400045320	EXHAUST SILENCER - LOUD - RH - BLACK	C163	SILENCER		Black	1
1-A-3	MPT-0460	1590100071000	BRACKET - EXHAUST - RH	C015	BRACKET		No Colour	1
2	MPT-0891	7024908035268	HEX SOCKET HEAD SCREW - M8x35	C152	SCREW	M8x35	No Colour	2
3	MPT-0464	1593400015000	EXHAUST GASKET	C088	GASKET		No Colour	1
4	MPT-0931	7111906016168	GASKET COMBINATION BOLT	C012	BOLT	M6*16	No Colour	2
5	MPT-0335	1221400026400	AIR CLEANER ASSEMBLY	C004	AIR CLEANER ASSEMBLY		No Colour	1
5-1	MPT-0476	1690400031000	AIR FILTER	C005	AIR FILTER		No Colour	1
6	MPT-0812	7012406020268	BOLT - M6x20	C012	BOLT	M6x25	No Colour	3
7	MPT-0384	1260300070000	RUBBER GROMMET - BATTERY	C146	RUBBER GROMMET		No Colour	3
8	MPT-0382	1260300060000	BATTERY BUSH BRACE - SMALL	C022	BUSH BRACE	SMALL	No Colour	3
9	MPT-0030	1040300236000	BRACKET - BATTERY	C015	BRACKET		No Colour	1
10	MPT-0109	1041701100000	BRACKET - FUSE BOX	C015	BRACKET		No Colour	1
11	MPT-1245	1150000115000	BATTERY - GEL - 9AH	C009	BATTERY		No Colour	1
12	MPT-0402	12603000891000	BATTERY STRAP	C010	BATTERY STRAP		No Colour	1
13	MPT-0197	1120302561000	CARBON CANISTER	C035	CARBON CANISTER		No Colour	1
14	MPT-0110	1041701120000	BRACKET - CARBON CANISTER	C015	BRACKET		No Colour	1
15	MPT-0329	1220300027000	TOOL BOX LID	C199	TOOL BOX LID		No Colour	1
16	MPT-0180	1114111001000	OXYGEN SENSOR	C159	SENSOR		No Colour	1
17	MPT-0400	1260300700000	FUEL HOSE - CARBON CANISTER	C084	FUEL HOSE	ø4.7xø8.5x280	No Colour	1
18	MPT-0408	1260400841200	TUBE	C079	TUBE		No Colour	1
19	MPT-0406	1260300981000	CLAMP - FUEL HOSE	C041	CLAMP	ø8.0x1	No Colour	3
20	MPT-0407	1260300982000	CLAMP - FUEL HOSE	C041	CLAMP	ø9.5x1	No Colour	1
21	MPT-0905	7032606000248	HEX NUT - FLANGED - M6	C118	NUT	M6	No Colour	2
22	MPT-0108	1041701090000	BRACKET - REGULATOR/RECTIFIER	C015	BRACKET		No Colour	1
23	MPT-0914	7050008104235	WASHER - ELASTIC - 8x10.1x4.2	C071	ELASTIC WASHER	8x10.1x4.2	No Colour	2
24	MPT-0112	1041701200000	BRACKET - FUSE BOX - ABS	C015	BRACKET		No Colour	1
25	MPT-0896	7031906000248	HEX NUT - M6	C118	NUT	M6	No Colour	3
26	MPT-0851	7012810045367	HEX BOLT - FLANGED - M10x45x1.25	C012	BOLT	M10x45x1.25	No Colour	1
27	MPT-0912	7034310000347	HEX NUT - FLANGED - M10x1.25	C118	NUT	M10x1.25	No Colour	1

250EU502-F08B

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F08B	F08	EXHAUST

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-B	MPT-1258	1121400045600	EXHAUST SYSTEM - COMPLETE - QUIET - LH - BLACK	C073	EXHAUST		Black	1
1-B	MPT-1261	1121400045700	EXHAUST SYSTEM - COMPLETE - QUIET - LH - BRUSHED	C073	EXHAUST		Brushed Aluminium	1
1-B-1	MPT-0230	1123600023000	EXHAUST DOWN PIPE - LH - BLACK	C064	DOWN PIPE		Black	1
1-B-1	MPT-0228	1123600021000	EXHAUST DOWN PIPE - LH - BRUSHED	C064	DOWN PIPE		Brushed Aluminium	1
1-B-2	MPT-0222	1121400045410	EXHAUST SILENCER - QUIET - LH - BLACK	C163	SILENCER		Black	1
1-B-2	MPT-0223	1121400045510	EXHAUST SILENCER - QUIET - LH - BRUSHED	C163	SILENCER		Brushed Aluminium	1
1-B-2	MPT-0220	1121400045330	EXHAUST SILENCER - LOUD - LH - BLACK	C163	SILENCER		Black	1
1-B-2	MPT-0221	1121400045340	EXHAUST SILENCER - LOUD - LH - BRUSHED	C163	SILENCER		Brushed Aluminium	1
1-B-3	MPT-0461	1590100072000	BRACKET - EXHAUST - RH	C015	BRACKET		No Colour	1
2	MPT-0891	7024908035268	HEX SOCKET HEAD SCREW - M8x35	C152	SCREW	M8x35	No Colour	2
3	MPT-0464	1593400015000	EXHAUST GASKET	C088	GASKET		No Colour	1
4	MPT-0931	7111906016168	GASKET COMBINATION BOLT	C012	BOLT	M6*16	No Colour	2
5	MPT-0335	1221400026400	AIR CLEANER ASSEMBLY	C004	AIR CLEANER ASSEMBLY		No Colour	1
5-1	MPT-0476	1690400031000	AIR FILTER	C005	AIR FILTER		No Colour	1
6	MPT-0812	7012406020268	BOLT - M6x20	C012	BOLT	M6x25	No Colour	3
7	MPT-0384	1260300070000	RUBBER GROMMET - BATTERY	C146	RUBBER GROMMET		No Colour	3
8	MPT-0382	1260300060000	BATTERY BUSH BRACE - SMALL	C022	BUSH BRACE	SMALL	No Colour	3
9	MPT-0030	1040300236000	BRACKET - BATTERY	C015	BRACKET		No Colour	1
10	MPT-0109	1041701100000	BRACKET - FUSE BOX	C015	BRACKET		No Colour	1
11	MPT-1245	1150000115000	BATTERY - GEL - 9AH	C009	BATTERY		No Colour	1
12	MPT-0402	12603000891000	BATTERY STRAP	C010	BATTERY STRAP		No Colour	1
13	MPT-0197	1120302561000	CARBON CANISTER	C035	CARBON CANISTER		No Colour	1
14	MPT-0110	1041701120000	BRACKET - CARBON CANISTER	C015	BRACKET		No Colour	1
15	MPT-0329	1220300027000	TOOL BOX LID	C199	TOOL BOX LID		No Colour	1
16	MPT-0180	1114111001000	OXYGEN SENSOR	C159	SENSOR		No Colour	1
17	MPT-0400	1260300700000	FUEL HOSE - CARBON CANISTER	C084	FUEL HOSE	ø4.7xø8.5x280	No Colour	1
18	MPT-0408	1260400841200	TUBE	C079	TUBE		No Colour	1
19	MPT-0406	1260300981000	CLAMP - FUEL HOSE	C041	CLAMP	ø8.0x1	No Colour	3
20	MPT-0407	1260300982000	CLAMP - FUEL HOSE	C041	CLAMP	ø9.5x1	No Colour	1
21	MPT-0905	7032606000248	HEX NUT - FLANGED - M6	C118	NUT	M6	No Colour	2
22	MPT-0108	1041701090000	BRACKET - REGULATOR/RECTIFIER	C015	BRACKET		No Colour	1
23	MPT-0914	7050008104235	WASHER - ELASTIC - 8x10.1x4.2	C071	ELASTIC WASHER	8x10.1x4.2	No Colour	2
24	MPT-0112	1041701200000	BRACKET - FUSE BOX - ABS	C015	BRACKET		No Colour	1
25	MPT-0896	7031906000248	HEX NUT - M6	C118	NUT	M6	No Colour	3
26	MPT-0849	7012810025267	HEX BOLT - FLANGED - M10x25x1.25	C012	BOLT	M10x25x1.25	Matt Green	1
27	MPT-0911	7034310000247	HEX NUT - FLANGED - M10x1.25	C118	NUT	M10x1.25	No Colour	1
28	MPT-0383	1260300062000	SPACER - ø10xø15.8(4)xø20	C166	SPACER	ø10xø15.8(4)xø20	No Colour	1

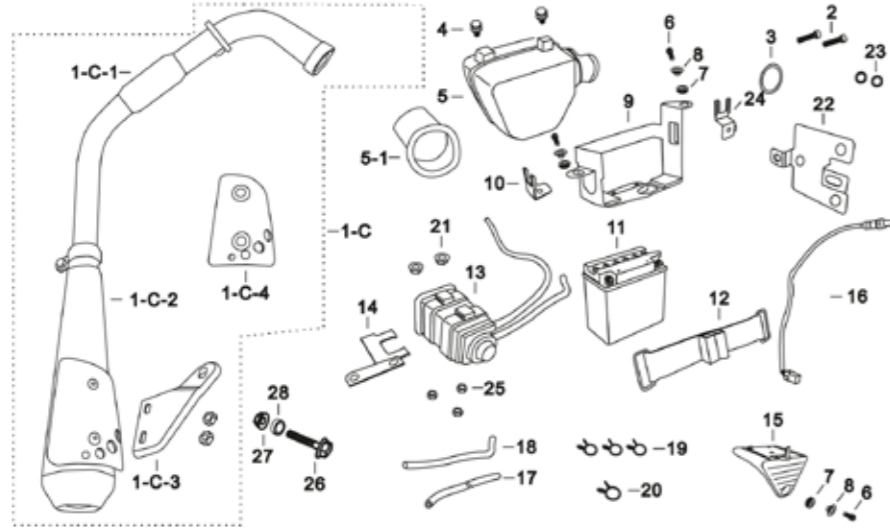


250EU502-F08C

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F08C	F08	EXHAUST

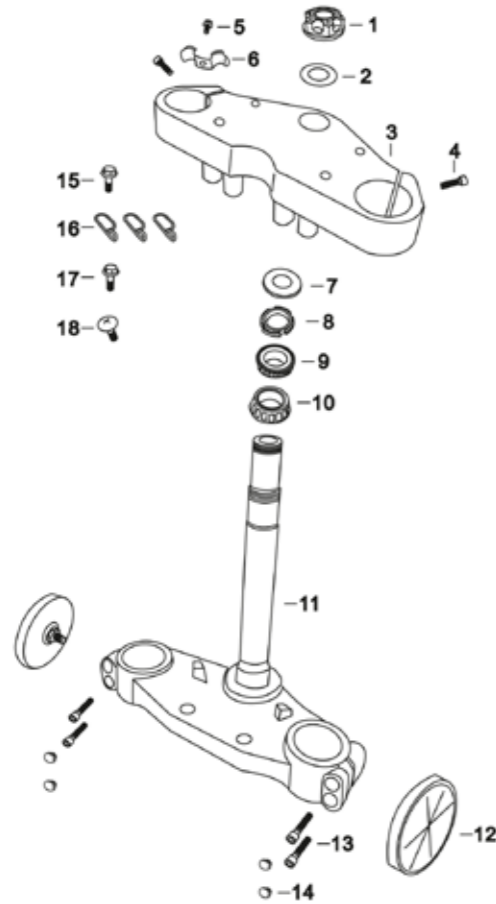
ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-C	MPT-1259	1121400045140	EXHAUST SYSTEM - COMPLETE - QUIET - LH - BLACK - WITH	C073	EXHAUST		Black	1
1-C	MPT-1260	1121400045130	EXHAUST SYSTEM - COMPLETE - QUIET - LH - BLACK - WITH	C073	EXHAUST		Brushed Aluminium	1
1-C-1	MPT-0230	1123600023000	EXHAUST DOWN PIPE - LH - BLACK	C064	DOWN PIPE		Black	1
1-C-2	MPT-0225	1121400045710	EXHAUST SILENCER - QUIET - LH - BLACK - WITH BLACK GUARD	C163	SILENCER		Black	1
1-C-2	MPT-0224	1121400045610	EXHAUST SILENCER - QUIET - LH - BLACK - WITH BRUSHED	C163	SILENCER		Brushed Aluminium	1
1-C-3	MPT-0461	1590100072000	BRACKET - EXHAUST - RH	C015	BRACKET		No Colour	1
1-C-4	MPT-0226	1121400060000	EXHAUST SILENCER GUARD - LH - BLACK	C093	GUARD		Black	1
1-C-4	MPT-0227	1121400061000	EXHAUST SILENCER GUARD - LH - BRUSHED	C093	GUARD		Brushed Aluminium	1
2	MPT-0891	7024908035268	HEX SOCKET HEAD SCREW - M8x35	C152	SCREW	M8x35	No Colour	2
3	MPT-0464	1593400015000	EXHAUST GASKET	C088	GASKET		No Colour	1
4	MPT-0931	7111906016168	GASKET COMBINATION BOLT	C012	BOLT	M6*16	No Colour	2
5	MPT-0335	1221400026400	AIR CLEANER ASSEMBLY	C004	AIR CLEANER ASSEMBLY		No Colour	1
5-1	MPT-0476	1690400031000	AIR FILTER	C005	AIR FILTER		No Colour	1
6	MPT-0812	7012406020268	BOLT - M6x20	C012	BOLT	M6x25	No Colour	3
7	MPT-0384	1260300070000	RUBBER GROMMET - BATTERY	C146	RUBBER GROMMET		No Colour	3
8	MPT-0382	1260300060000	BATTERY BUSH BRACE - SMALL	C022	BUSH BRACE	SMALL	No Colour	3
9	MPT-0030	1040300236000	BRACKET - BATTERY	C015	BRACKET		No Colour	1
10	MPT-0109	1041701100000	BRACKET - FUSE BOX	C015	BRACKET		No Colour	1
11	MPT-1245	1150000115000	BATTERY - GEL - 9AH	C009	BATTERY		No Colour	1
12	MPT-1438	12603000892000	BATTERY STRAP - 165MM	C010	BATTERY STRAP	165mm	No Colour	1
13	MPT-0197	1120302561000	CARBON CANISTER	C035	CARBON CANISTER		No Colour	1
14	MPT-0110	1041701120000	BRACKET - CARBON CANISTER	C015	BRACKET		No Colour	1
15	MPT-0329	1220300027000	TOOL BOX LID	C199	TOOL BOX LID		No Colour	1
16	MPT-0180	1114111001000	OXYGEN SENSOR	C159	SENSOR		No Colour	1
17	MPT-0400	1260300700000	FUEL HOSE - CARBON CANISTER	C084	FUEL HOSE	ø4.7xø8.5x280	No Colour	1
18	MPT-0408	1260400841200	TUBE	C079	TUBE		No Colour	1
19	MPT-0406	1260300981000	CLAMP - FUEL HOSE	C041	CLAMP	ø8.0x1	No Colour	3
20	MPT-0407	1260300982000	CLAMP - FUEL HOSE	C041	CLAMP	ø9.5x1	No Colour	1
21	MPT-0905	7032606000248	HEX NUT - FLANGED - M6	C118	NUT	M6	No Colour	2
22	MPT-0108	1041701090000	BRACKET - REGULATOR/RECTIFIER	C015	BRACKET		No Colour	1
23	MPT-0914	7050008104235	WASHER - ELASTIC - 8x10.1x4.2	C071	ELASTIC WASHER	8x10.1x4.2	No Colour	2
24	MPT-0112	1041701200000	BRACKET - FUSE BOX - ABS	C015	BRACKET		No Colour	1
25	MPT-0896	7031906000248	HEX NUT - M6	C118	NUT	M6	No Colour	3
26	MPT-0849	7012810025267	HEX BOLT - FLANGED - M10x25x1.25	C012	BOLT	M10x25x1.25	Matt Green	1
27	MPT-0911	7034310000247	HEX NUT - FLANGED - M10x1.25	C118	NUT	M10x1.25	No Colour	1
28	MPT-0383	1260300062000	SPACER - ø10xø15.8(4)xø20	C166	SPACER		No Colour	1



250EU502-F09A

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F09A	F09	YOKE

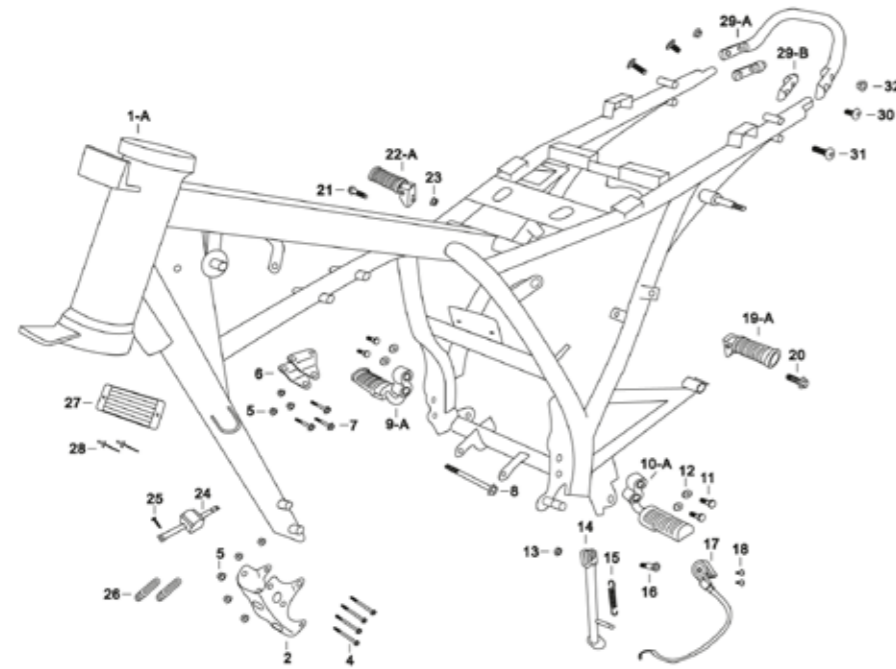


ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-0113	1050100052000	HEADSTEM NUT - CNC - BLACK	C118	NUT	M14x1.25	Black	1
1	MPT-0114	1050100053000	HEADSTEM NUT - CNC - BRUSHED	C118	NUT	M14x1.25	Brushed Aluminium	1
2	MPT-0916	7050122361034	WASHER - FLAT - 22.5x36x1.0	C206	WASHER	22.5x36x1.0	No Colour	1
3	MPT-0233	1130100072800	YOKE - TOP - BLACK	C210	YOKE		Black	1
4	MPT-0889	7024908025168	HEX SOCKET HEAD SCREW - M8x25	C152	SCREW	M8x25	No Colour	2
5	MPT-0855	7013006012268	HEX BOLT - FLANGED - M6x12	C012	BOLT	M6x12	No Colour	1
6	MPT-0406	1260300981000	CLAMP - FUEL HOSE	C041	CLAMP	ø8.0x1	No Colour	1
7	MPT-0118	1051400090000	HEADSTOCK DUST SEAL	C069	DUST SEAL		No Colour	1
8	MPT-0117	1051400060000	HEADSTOCK COLLAR	C050	COLLAR		No Colour	1
9	MPT-0119	1051400130000	HEADSTOCK TOP BEARING	C011	BEARING		No Colour	1
10	MPT-0120	1051400140000	HEADSTOCK LOWER BEARING	C011	BEARING		No Colour	1
11	MPT-0116	1051400012000	YOKE - BOTTOM - BLACK	C210	YOKE		Black	1
12	MPT-0424	1261400943000	REFLECTOR - FRONT	C137	REFLECTOR		No Colour	2
13	MPT-0891	7024908035268	HEX SOCKET HEAD SCREW - M8x35	C152	SCREW	M8x35	No Colour	4
14	MPT-0115	1051000050000	BUTTON - BLACK	C024	BUTTON		Black	4
15	MPT-0855	7013006012268	HEX BOLT - FLANGED - M6x12	C012	BOLT	M6x12	No Colour	1
16	MPT-0044	1040400211000	CLUTCH CABLE GUIDE	C028	CABLE GUIDE		No Colour	3
17	MPT-0855	7013006012268	HEX BOLT - FLANGED - M6x12	C012	BOLT	M6x12	No Colour	1
18	MPT-0881	7021806012267	PHILLIPS PAN HEAD SCREW - M6x12	C152	SCREW	M6x12	No Colour	1

250EU502-F10A

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F10A	F10	FRAME

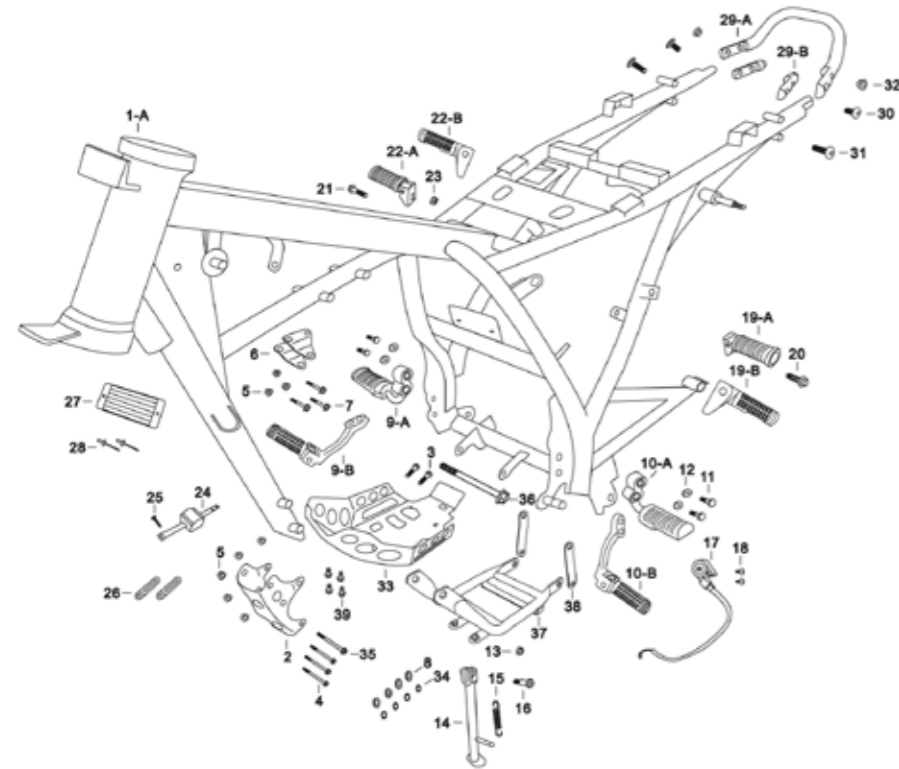


ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-A	MPT-0022	1031400094500	FRAME - 250 - EFI+ABS - MONGREL	C080	FRAME		Black	1
2	MPT-0009	1030100023000	ENGINE BRACKET - LOWER	C015	BRACKET		No Colour	1
4	MPT-0071	7013008070168	HEX BOLT - FLANGED - M8x70	C012	BOLT	M8x70	No Colour	4
5	MPT-0907	7033608000148	SELF-LOCKING HEX NUT - FLANGED - M8	C158	SELF-LOCKING NUT	M8	No Colour	8
6	MPT-0015	1030300052000	ENGINE BRACKET - UPPER	C015	BRACKET		No Colour	2
7	MPT-0069	7013008050168	HEX BOLT - FLANGED - M8x50	C012	BOLT	M8x50	No Colour	3
8	MPT-0075	7013008100168	HEX BOLT - FLANGED - M8x100	C012	BOLT	M8x100	No Colour	1
9-A	MPT-0394	1260300283000	FOOTPEG - FRONT - WITH HANGER/BRACKETS - RH	C076	FOOTPEG		No Colour	1
10-A	MPT-0393	1260300272000	FOOTPEG - FRONT - WITH HANGER/BRACKETS - LH	C076	FOOTPEG		No Colour	1
11	MPT-0941	7500310032168	BOLT - M10x32 - FRONT FOOTPEG	C012	BOLT	M10x32	No Colour	4
12	MPT-0955	7540310262038	WASHER - M10x1.5 - FRONT FOOTPEG	C206	WASHER	M10x1.5	No Colour	4
13	MPT-0898	7031910000147	HEX NUT - M10x1.5	C118	NUT	M10x1.5	No Colour	1
14	MPT-0072	1041400087000	SIDE STAND - 270MM	C162	SIDE STAND	270mm	Black	1
15	MPT-0441	1291300030000	SIDE STAND SPRING	C176	SPRING	∅3.0(∅1.5)x104	No Colour	1
16	MPT-0960	7640310035167	SIDE STAND BOLT - M10x35x1.5	C012	BOLT	M10x35x1.5	No Colour	1
17	MPT-0314	1183700220000	SIDE STAND SWITCH	C189	SWITCH		No Colour	1
18	MPT-0880	7021805014157	SCREW - M5x14	C152	SCREW	M5x14	No Colour	2
19-A	MPT-0391	1260300250000	FOOTPEG - PILLION - WITH HANGER/BRACKETS - LH	C076	FOOTPEG		No Colour	1
20	MPT-0850	7012810025367	HEX BOLT - FLANGED - M10x25x1.25 - REAR FOOTPEG - LH	C012	BOLT	M10x25x1.25	No Colour	1
21	MPT-0851	7012810045367	HEX BOLT - FLANGED - M10x45x1.25	C012	BOLT	M10x45x1.25	No Colour	1
22-A	MPT-0392	1260300260000	FOOTPEG - PILLION - WITH HANGER/BRACKETS - RH	C076	FOOTPEG		No Colour	1
23	MPT-0912	7034310000347	HEX NUT - FLANGED - M10x1.25	C118	NUT	M10x1.25	No Colour	1
24	MPT-0387	1260300100001	CHAIN SLIDER - LOWER	C039	CHAIN SLIDER		No Colour	1
25	MPT-0925	7070042016007	SCREW - ST4.2x16	C152	SCREW	ST4.2x16	No Colour	1
26	MPT-0396	1260300330000	CLAMP	C041	CLAMP	∅8.5x17x75	No Colour	2
27	MPT-0430	1270203010011	VIN PLATE - EURO 4	C205	VIN PLATE		No Colour	1
27	MPT-0431	1270203012000	VIN PLATE - NORMAL	C205	VIN PLATE		No Colour	1
28	MPT-0926	7082803010002	RIVETS - 3x10	C143	RIVET	3x10	No Colour	2
29-A	MPT-0020	1031400094000	GRABRAIL - REAR	C007	GRABRAIL		Black	1
29-B	MPT-0021	1031400094100	FRAME PLUGS - REAR	C081	FRAME PLUGS		Black	2
30	MPT-0846	7012808125168	PAN HEAD HEX BOLT - FLANGED - M8x25 - FRAME END	C012	BOLT	M8x25	No Colour	2
31	MPT-0847	7012808130168	PAN HEAD HEX BOLT - FLANGED - M8x30 - FRAME END	C012	BOLT	M8x30	No Colour	2
32	MPT-0906	7032608000247	HEX NUT - FLANGED - M8	C118	NUT	M8	No Colour	4

250EU502-F10B

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F10B	F10	FRAME

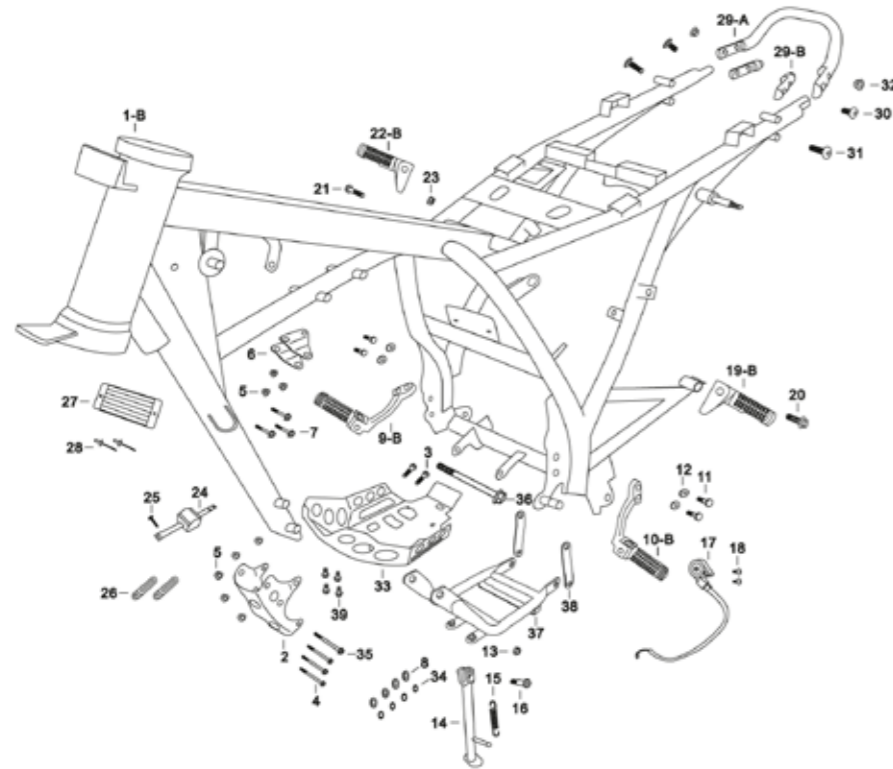


ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-A	MPT-0022	1031400094500	FRAME - 250 - EFI+ABS - MONGREL	C080	FRAME		Black	1
2	MPT-0009	1030100023000	ENGINE BRACKET - LOWER	C015	BRACKET		No Colour	1
3	MPT-0840	7012808025268	HEX BOLT - FLANGED - M8x25	C012	BOLT	M8x25	No Colour	2
4	MPT-0871	7013008070168	HEX BOLT - FLANGED - M8x70	C012	BOLT	M8x70	No Colour	3
5	MPT-0907	7033608000148	SELF-LOCKING HEX NUT - FLANGED - M8	C158	SELF-LOCKING NUT	M8	No Colour	8
6	MPT-0015	1030300052000	ENGINE BRACKET - UPPER	C015	BRACKET		No Colour	2
7	MPT-0869	7013008050168	HEX BOLT - FLANGED - M8x50	C012	BOLT	M8x50	No Colour	3
8	MPT-0915	7050108161648	WASHER - FLAT - 8x16x1.6	C206	WASHER	8x16x1.6	No Colour	4
9-A	MPT-0394	1260300283000	FOOTPEG - FRONT - WITH HANGER/BRACKETS - RH	C076	FOOTPEG		No Colour	1
9-B	MPT-0085	1041400194000	FOOTPEG - FRONT - WITH HANGER/BRACKETS - CNC - BLACK - RH	C076	FOOTPEG		Black	1
10-A	MPT-0393	1260300272000	FOOTPEG - FRONT - WITH HANGER/BRACKETS - LH	C076	FOOTPEG		No Colour	1
10-B	MPT-0084	1041400193000	FOOTPEG - FRONT - WITH HANGER/BRACKETS - CNC - BLACK - LH	C076	FOOTPEG		Black	1
11	MPT-0941	7500310032168	BOLT - M10x32 - FRONT FOOTPEG	C012	BOLT	M10x32	No Colour	4
12	MPT-0955	7540310262038	WASHER - M10x1.5 - FRONT FOOTPEG	C206	WASHER	M10x1.5	No Colour	4
13	MPT-0898	7031910000147	HEX NUT - M10x1.5	C118	NUT	M10x1.5	No Colour	1
14	MPT-0072	1041400087000	SIDE STAND - 270MM	C162	SIDE STAND	270mm	Black	1
14	MPT-1300	1041400085000	SIDE STAND - 225MM	C162	SIDE STAND	225mm	Black	1
15	MPT-0441	1291300030000	SIDE STAND SPRING	C176	SPRING	∅3.0(∅1.5)x104	No Colour	1
16	MPT-0960	7640310035167	SIDE STAND BOLT - M10x35x1.5	C012	BOLT	M10x35x1.5	No Colour	1
17	MPT-0314	1183700220000	SIDE STAND SWITCH	C189	SWITCH		No Colour	1
18	MPT-0880	7021805014157	SCREW - M5x14	C152	SCREW	M5x14	No Colour	2
19-A	MPT-0391	1260300250000	FOOTPEG - PILLION - WITH HANGER/BRACKETS - LH	C076	FOOTPEG		No Colour	1
19-B	MPT-0411	1260700040206	FOOTPEG - PILLION - WITH HANGER/BRACKETS - CNC BLACK - LH	C076	FOOTPEG		Black	1
20	MPT-0850	7012810025367	HEX BOLT - FLANGED - M10x25x1.25 - REAR FOOTPEG - LH	C012	BOLT	M10x25x1.25	No Colour	1
21	MPT-0851	7012810045367	HEX BOLT - FLANGED - M10x45x1.25	C012	BOLT	M10x45x1.25	No Colour	1
22-A	MPT-0392	1260300260000	FOOTPEG - PILLION - WITH HANGER/BRACKETS - RH	C076	FOOTPEG		No Colour	1
22-B	MPT-0412	1260700040216	FOOTPEG - PILLION - WITH HANGER/BRACKETS - CNC BLACK - RH	C076	FOOTPEG		Black	1
23	MPT-0912	7034310000347	HEX NUT - FLANGED - M10x1.25	C118	NUT	M10x1.25	No Colour	1
24	MPT-0387	1260300100001	CHAIN SLIDER - LOWER	C039	CHAIN SLIDER		No Colour	1
25	MPT-0925	7070042016007	SCREW - ST4.2x16	C152	SCREW	ST4.2x16	No Colour	1
26	MPT-0396	1260300330000	CLAMP	C041	CLAMP	∅8.5x17x75	No Colour	2
27	MPT-0430	1270203010011	VIN PLATE - EURO 4	C205	VIN PLATE		No Colour	1
27	MPT-0431	1270203012000	VIN PLATE - NORMAL	C205	VIN PLATE		No Colour	1
28	MPT-0926	7082803010002	RIVETS - 3x10	C143	RIVET	3x10	No Colour	2
29-A	MPT-0020	1031400094000	GRABRAIL - REAR	C007	GRABRAIL		Black	1
29-B	MPT-0021	1031400094100	FRAME PLUGS - REAR	C081	FRAME PLUGS		Black	2
29-B	MPT-0019	1031400073180	FRAME PLUGS - REAR - CNC	C081	FRAME PLUGS		Black	2
30	MPT-0846	7012808125168	PAN HEAD HEX BOLT - FLANGED - M8x25 - FRAME END	C012	BOLT	M8x25	No Colour	2
31	MPT-0847	7012808130168	PAN HEAD HEX BOLT - FLANGED - M8x30 - FRAME END	C012	BOLT	M8x30	No Colour	2
32	MPT-0906	7032608000247	HEX NUT - FLANGED - M8	C118	NUT	M8	No Colour	4
33	MPT-0359	1250809000500	SUMP GUARD - 250 - BLACK	C186	SUMP GUARD		Black	1
33	MPT-0360	1250809000600	SUMP GUARD - 250 - BRUSHED	C186	SUMP GUARD		Brushed Aluminium	1
34	MPT-0914	7050008104235	WASHER - ELASTIC - 8x10.1x4.2	C071	ELASTIC WASHER	8x10.1x4.2	No Colour	4
35	MPT-0872	7013008080168	HEX BOLT - FLANGED - M8x80	C012	BOLT	M8x80	No Colour	1
36	MPT-0876	7013008105168	HEX BOLT - FLANGED - M8x100	C012	BOLT	M8x100	No Colour	1
37	MPT-0026	1040101500000	BRACKET - SUMP GUARD - MAIN	C015	BRACKET		Black	1
38	MPT-0027	1040101500100	BRACKET - SUMP GUARD - REAR	C015	BRACKET		Black	2
39	MPT-0868	7013008016168	HEX BOLT - FLANGED - M8x16	C012	BOLT	M8x16	No Colour	4

250EU502-F10C

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DIAGRAM REF.	GROUP REF.	GROUP
F10C	F10	FRAME

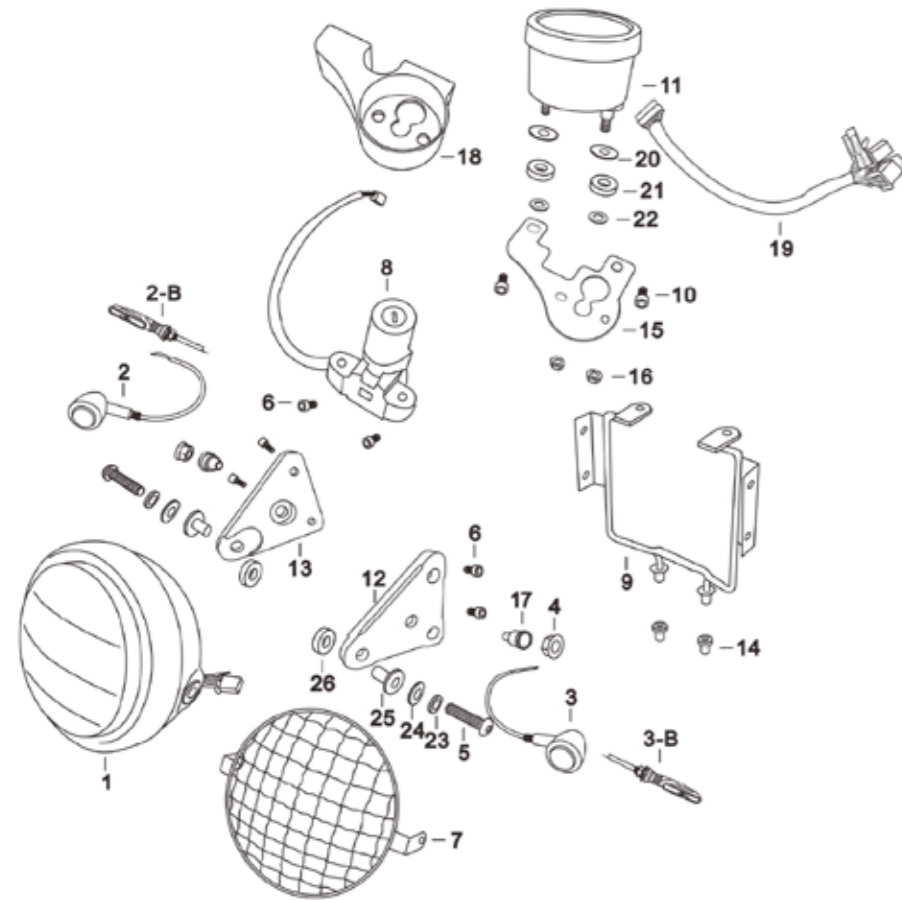


ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-B	MPT-0023	1031400193800	FRAME - 250 - EFI+ABS - SQUARE TANK - MONGREL	C080	FRAME		Black	1
2	MPT-0009	1030100023000	ENGINE BRACKET - LOWER	C015	BRACKET		No Colour	1
3	MPT-0040	7012800025268	HEX BOLT - FLANGED - M8x25	C012	BOLT	M8x25	No Colour	2
4	MPT-0071	7013000070168	HEX BOLT - FLANGED - M8x70	C012	BOLT	M8x70	No Colour	3
5	MPT-0007	7033600000148	SELF-LOCKING HEX NUT - FLANGED - M8	C158	SELF-LOCKING NUT	M8	No Colour	8
6	MPT-0015	1030300052000	ENGINE BRACKET - UPPER	C015	BRACKET		No Colour	2
7	MPT-0069	7013000050168	HEX BOLT - FLANGED - M8x50	C012	BOLT	M8x50	No Colour	3
8	MPT-0015	7050100161648	WASHER - FLAT - 8x16x1.6	C206	WASHER	8x16x1.6	No Colour	4
9-B	MPT-0085	1041400194000	FOOTPEG - FRONT - WITH HANGER/BRACKETS - CNC - BLACK - RH	C076	FOOTPEG		Black	1
10-B	MPT-0084	1041400193000	FOOTPEG - FRONT - WITH HANGER/BRACKETS - CNC - BLACK - LH	C076	FOOTPEG		Black	1
11	MPT-0041	7500310032168	BOLT - M10x32 - FRONT FOOTPEG	C012	BOLT	M10x32	No Colour	4
12	MPT-0055	7540310262038	WASHER - M10x1.5 - FRONT FOOTPEG	C206	WASHER	M10x1.5	No Colour	4
13	MPT-0098	7031910000147	HEX NUT - M10x1.5	C118	NUT	M10x1.5	No Colour	1
14	MPT-0072	1041400087000	SIDE STAND - 270MM	C162	SIDE STAND	270mm	Black	1
15	MPT-0441	1291300030000	SIDE STAND SPRING	C176	SPRING	∅3.0(∅1.5)x104	No Colour	1
16	MPT-0060	7640310035167	SIDE STAND BOLT - M10x35x1.5	C012	BOLT	M10x35x1.5	No Colour	1
17	MPT-0034	1183700220000	SIDE STAND SWITCH	C189	SWITCH		No Colour	1
18	MPT-0080	7021805014157	SCREW - M5x14	C152	SCREW	M5x14	No Colour	2
19-B	MPT-0411	1260700040206	FOOTPEG - PILLION - WITH HANGER/BRACKETS - CNC BLACK - LH	C076	FOOTPEG		Black	1
20	MPT-0050	7012810025367	HEX BOLT - FLANGED - M10x25x1.25 - REAR FOOTPEG - LH	C012	BOLT	M10x25x1.25	No Colour	1
21	MPT-0051	7012810045367	HEX BOLT - FLANGED - M10x45x1.25	C012	BOLT	M10x45x1.25	No Colour	1
22-B	MPT-0412	1260700040216	FOOTPEG - PILLION - WITH HANGER/BRACKETS - CNC BLACK - RH	C076	FOOTPEG		Black	1
23	MPT-0012	7034310000347	HEX NUT - FLANGED - M10x1.25	C118	NUT	M10x1.25	No Colour	1
24	MPT-0038	1260300100001	CHAIN SLIDER - LOWER	C039	CHAIN SLIDER		No Colour	1
25	MPT-0025	7070042016007	SCREW - ST4.2x16	C152	SCREW	ST4.2x16	No Colour	1
26	MPT-0036	1260300330000	CLAMP	C041	CLAMP	∅8.5x17x75	No Colour	2
27	MPT-0430	1270203010011	VIN PLATE - EURO 4	C205	VIN PLATE		No Colour	1
27	MPT-0431	1270203012000	VIN PLATE - NORMAL	C205	VIN PLATE		No Colour	1
28	MPT-0026	7082803010002	RIVETS - 3x10	C143	RIVET	3x10	No Colour	2
29-A	MPT-0020	1031400094000	GRABRAIL - REAR	C007	GRABRAIL		Black	1
29-B	MPT-0019	1031400073180	FRAME PLUGS - REAR - CNC	C081	FRAME PLUGS		Black	2
30	MPT-0046	7012800125168	PAN HEAD HEX BOLT - FLANGED - M8x25 - FRAME END	C012	BOLT	M8x25	No Colour	2
31	MPT-0047	7012800130168	PAN HEAD HEX BOLT - FLANGED - M8x30 - FRAME END	C012	BOLT	M8x30	No Colour	2
32	MPT-0006	7032600000247	HEX NUT - FLANGED - M8	C118	NUT	M8	No Colour	4
33	MPT-0030	1250809000600	SUMP GUARD - 250 - BRUSHED	C186	SUMP GUARD		Brushed Aluminium	1
34	MPT-0014	7050008104235	WASHER - ELASTIC - 8x10.1x4.2	C071	ELASTIC WASHER	8x10.1x4.2	No Colour	4
35	MPT-0072	7013000080168	HEX BOLT - FLANGED - M8x80	C012	BOLT	M8x80	No Colour	1
36	MPT-0076	7013000105168	HEX BOLT - FLANGED - M8x100	C012	BOLT	M8x100	No Colour	1
37	MPT-0026	1040101500000	BRACKET - SUMP GUARD - MAIN	C015	BRACKET		Black	1
38	MPT-0027	1040101500100	BRACKET - SUMP GUARD - REAR	C015	BRACKET		Black	2
39	MPT-0068	7013000016168	HEX BOLT - FLANGED - M8x16	C012	BOLT	M8x16	No Colour	4

250EU502-F11A

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F11A	F11	SPEEDOMETER & HEADLIGHT



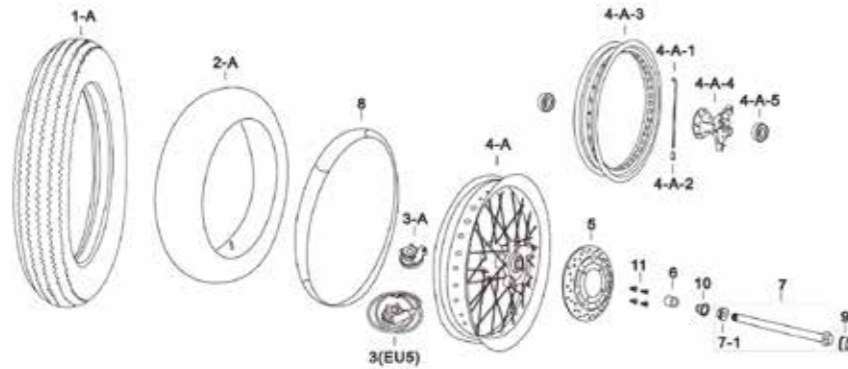
ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-0283	1170400075000	HEADLIGHT - MATT BLACK	C097	HEADLIGHT		Matt Black	1
1	MPT-0284	1170400076000	HEADLIGHT - CHROME	C097	HEADLIGHT		Chrome	1
1	MPT-1432	1171400094000	HEADLIGHT - LED - BLACK	C097	HEADLIGHT		Black	1
2	MPT-0288	1171000066300	INDICATOR - FRONT - LED - CNC - RH - BLACK	C102	INDICATOR		Black	1
2	MPT-0287	1171000066200	INDICATOR - FRONT - LED - CNC - RH - BRUSHED	C102	INDICATOR		Brushed Aluminium	1
2-B	MPT-1433	1171000029000	INDICATOR - FLEXI-LED - FRONT - RH	C102	INDICATOR		No Colour	1
3	MPT-0286	1171000056300	INDICATOR - FRONT - LED - CNC - LH - BLACK	C102	INDICATOR		Black	1
3	MPT-0285	1171000056200	INDICATOR - FRONT - LED - CNC - LH - BRUSHED	C102	INDICATOR		Brushed Aluminium	1
3-B	MPT-1434	1171000019000	INDICATOR - FLEXI-LED - FRONT - LH	C102	INDICATOR		No Colour	1
4	MPT-0912	7034310000347	HEX NUT - FLANGED - M10x1.25	C118	NUT	M10x1.25	No Colour	2
5	MPT-1249	7012808300160	BOLT - M8x30	C012	BOLT	M8x30	No Colour	2
6	MPT-0887	7024906016260	HEX SOCKET HEAD SCREW - M6x16	C012	BOLT	M6x16	No Colour	6
7	MPT-0040	1040400038100	HEADLIGHT GRILL - BLACK	C091	GRILL		Black	1
7	MPT-0041	1040400038300	HEADLIGHT GRILL - STAINLESS STEEL	C091	GRILL		Stainless Steel	1
8	MPT-0471	1650500010000	IGNITION SWITCH - MUTT	C189	SWITCH		No Colour	1
9	MPT-0067	1041400033000	BRACKET - HEADLIGHT - MAIN	C015	BRACKET		Black	1
10	MPT-0888	7024908020267	HEX SOCKET HEAD SCREW - M8x20	C012	BOLT	M8x20	No Colour	2
11	MPT-1251	1161400016700	SPEEDOMETER - DIGITAL - BLACK	C172	SPEEDOMETER		Black	1
12	MPT-0062	1041300050211	BRACKET - HEADLIGHT - CNC - BLACK - LH	C015	BRACKET		Black	1
12	MPT-0061	1041300050210	BRACKET - HEADLIGHT - CNC - BRUSHED - LH	C015	BRACKET		Brushed Aluminium	1
12	MPT-1435	1041300050212	BRACKET - HEADLIGHT - CNC - BLACK - LH - 12MM	C015	BRACKET		Black	1
13	MPT-0064	1041300050221	BRACKET - HEADLIGHT - CNC - BLACK - RH	C015	BRACKET		Black	1
13	MPT-0063	1041300050220	BRACKET - HEADLIGHT - CNC - BRUSH - RH	C015	BRACKET		Brushed Aluminium	1
13	MPT-1436	1041300050222	BRACKET - HEADLIGHT - CNC - BLACK - RH - 12MM	C015	BRACKET		Black	1
14	MPT-0378	1260200152000	RUBBER GROMMET - HEADLIGHT	C146	RUBBER GROMMET		No Colour	2
15	MPT-0065	1041400021000	BRACKET - SPEEDO	C015	BRACKET		Black	1
16	MPT-0905	7032606000248	HEX NUT - FLANGED - M6	C118	NUT	M6	No Colour	2
17	MPT-0422	1261400141000	RUBBER SLEEVE - INDICATORS	C151	RUBBER SLEEVE		No Colour	2
18	MPT-1248	1220200230000	SPEEDOMETER SURROUND - CNC - BLACK	C171	SPEEDO SURROUND		Black	1
19	MPT-1252	1161400016703	WIRE - SPEEDOMETER	C208	WIRE		No Colour	1
20	MPT-0379	1260200200000	FLANGED WASHER	C206	WASHER	M8	No Colour	2
21	MPT-1070	1260300300000	RUBBER RING	C149	RUBBER RING		No Colour	2
22	MPT-0915	7050108161648	WASHER - FLAT - 8x16x1.6	C206	WASHER	8x16x1.6	No Colour	2
23	MPT-0914	7050008104235	WASHER - ELASTIC - 8x10.1x4.2	C071	ELASTIC WASHER	8x10.1x4.2	No Colour	2
24	MPT-0915	7050108161648	WASHER - FLAT - 8x16x1.6	C206	WASHER	8x16x1.6	No Colour	2
25	MPT-1250	7550308160407	BUSHING	C023	BUSHING	ø8xø16x4	No Colour	2
26	MPT-1070	1260300300000	RUBBER RING	C149	RUBBER RING		No Colour	2

250EU502-F12A

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F12A	F12	WHEELS - FRONT

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-A	MPT-0148	1090100194000	TYRE - 4.00x18 64S	C202	TYRE	4.00x18	No Colour	1
2-A	MPT-0151	1090100197000	INNER TUBE - 4.0x18	C103	INNER TUBE	4.00x18	No Colour	1
3	MPT-1253	1081400053000	SPEEDOMETER DRIVE - DIGITAL	C170	SPEEDO DRIVE		No Colour	1
4-A	MPT-0130	1081400014540	WHEEL - FRONT - ALL BLACK - BLACK SPOKES	C207	WHEEL	2.5x18 INCH	Black	1
4-A-1	MPT-0450	1551400005410	SPOKE - FRONT WHEEL - STAINLESS - BLACK	C175	SPOKES	3.5x186mm	Black	36
4-A-2	MPT-0455	1551400009210	SPOKE CAP - FRONT WHEEL - BLACK	C174	SPOKE CAP		Black	36
4-A-3	MPT-0006	1020210090000	WHEEL - RIM - FRONT AND REAR - 2.5x18 - BLACK	C140	RIM	2.5x18	Black	1
4-A-4	MPT-0452	1551400007000	HUB - FRONT - BLACK	C100	HUB		Black	1
4-A-5	MPT-0128	1080500022000	WHEEL BEARING - FRONT	C011	BEARING	ø15mmxø35mmxW11mm	No Colour	2
4-A-6	MPT-1174	1551400008400	WHEEL BEARING SEAL - FRONT - LH/RH	C153	SEAL	ø23xø37x7	No Colour	2
5	MPT-0257	1141400029100	BRAKE DISC - FRONT - ABS	C062	DISC		No Colour	1
6	MPT-0142	1081400070909	SPACER - FRONT WHEEL	C166	SPACER	ø15(M14x1.5)x288	No Colour	1
7	MPT-0140	1081400061008	WHEEL SPINDLE - FRONT - WITH NUT	C173	SPINDLE	M14(F15)x240x1.5	No Colour	1
7-1	MPT-0125	1080100142000	NUT - WHEEL SPINDLE	C118	NUT		No Colour	1
8	MPT-0162	1090100999000	RIM TAPE	C141	RIM TAPE		No Colour	1
9	MPT-0375	1260100510000	WHEEL NUT RUBBER COVER - M17	C145	RUBBER COVER	M17	No Colour	1
10	MPT-0376	1260100520000	WHEEL NUT RUBBER COVER - M19	C145	RUBBER COVER	M19	No Colour	1
11	MPT-0845	7012808041168	STEP BOLT - M8x20 - DISC	C183	STEP BOLT	M8x20	No Colour	4

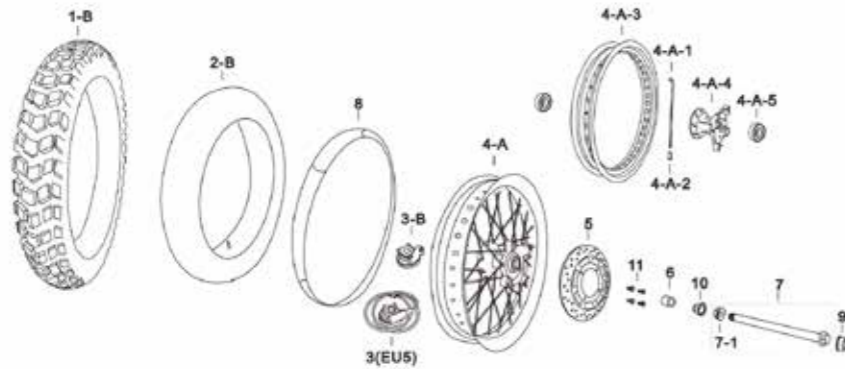


250EU502-F12B

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F12B	F12	WHEELS - FRONT

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-B	MPT-0152	1090100198000	TYRE - 4.10x18 KNOBBLY 59P	C202	TYRE	4.10x18	No Colour	1
2-B	MPT-0147	1090100191000	INNER TUBE - YUANXING 4.1-18	C103	INNER TUBE	4.10x18	No Colour	1
3	MPT-1253	1081400053000	SPEEDOMETER DRIVE - DIGITAL	C170	SPEEDO DRIVE		No Colour	1
4-A	MPT-0130	1081400014540	WHEEL - FRONT - ALL BLACK - BLACK SPOKES	C207	WHEEL	2.5x18 INCH	Black	1
4-A-1	MPT-0450	1551400005410	SPOKE - FRONT WHEEL - STAINLESS - BLACK	C175	SPOKES	3.5x186mm	Black	36
4-A-2	MPT-0455	1551400009210	SPOKE CAP - FRONT WHEEL - BLACK	C174	SPOKE CAP		Black	36
4-A-3	MPT-0006	1020210090000	WHEEL - RIM - FRONT AND REAR - 2.5x18 - BLACK	C140	RIM	2.5x18	Black	1
4-A-4	MPT-0452	1551400007000	HUB - FRONT - BLACK	C100	HUB		Black	1
4-A-5	MPT-0128	1080500022000	WHEEL BEARING - FRONT	C011	BEARING	ø15mmxø35mmxW11mm	No Colour	2
4-A-6	MPT-1174	1551400008400	WHEEL BEARING SEAL - FRONT - LH/RH	C153	SEAL	ø23xø37x7	No Colour	2
5	MPT-0257	1141400029100	BRAKE DISC - FRONT - ABS	C062	DISC		No Colour	1
6	MPT-0142	1081400070909	SPACER - FRONT WHEEL	C166	SPACER	ø15(M14x1.5)x288	No Colour	1
7	MPT-0140	1081400061008	WHEEL SPINDLE - FRONT - WITH NUT	C173	SPINDLE	M14(F15)x240x1.5	No Colour	1
7-1	MPT-0125	1080100142000	NUT - WHEEL SPINDLE	C118	NUT		No Colour	1
8	MPT-0162	1090100999000	RIM TAPE	C141	RIM TAPE		No Colour	1
9	MPT-0375	1260100510000	WHEEL NUT RUBBER COVER - M17	C145	RUBBER COVER	M17	No Colour	1
10	MPT-0376	1260100520000	WHEEL NUT RUBBER COVER - M19	C145	RUBBER COVER	M19	No Colour	1
11	MPT-0845	7012808041168	STEP BOLT - M8x20 - DISC	C183	STEP BOLT	M8x20	No Colour	4

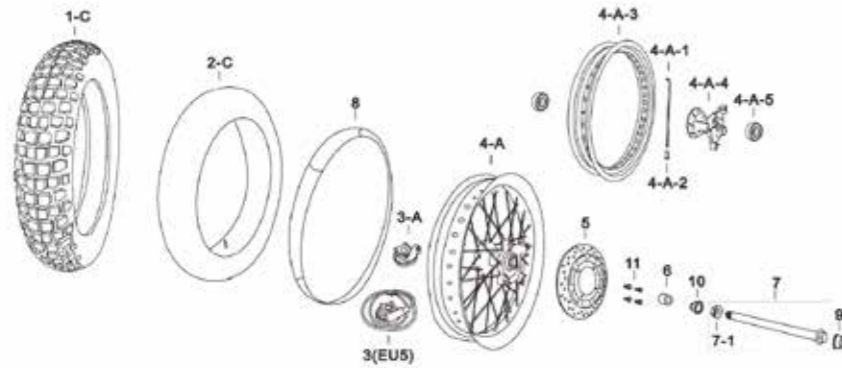


250EU502-F12C

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F12C	F12	WHEELS - FRONT

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-C	MPT-0153	1090100215000	TYRE - 120/90x18 65P	C202	TYRE	120/90x18	No Colour	1
2-C	MPT-0154	1090100216000	INNER TUBE - 120/90x18	C103	INNER TUBE	120/90x18	No Colour	1
3	MPT-1253	1081400053000	SPEEDOMETER DRIVE - DIGITAL	C170	SPEEDO DRIVE		No Colour	1
4-A	MPT-0130	1081400014540	WHEEL - FRONT - ALL BLACK - BLACK SPOKES	C207	WHEEL	2.5x18 INCH	Black	1
4-A	MPT-0131	1081400014810	WHEEL - FRONT - ALL CHROME - STAINLESS SPOKES	C207	WHEEL	2.5x18 INCH	Chrome	1
4-A-1	MPT-0450	1551400005410	SPOKE - FRONT WHEEL - STAINLESS - BLACK	C175	SPOKES	3.5x186mm	Black	36
4-A-1	MPT-0451	1551400005500	SPOKE - FRONT WHEEL - STAINLESS - CHROME	C175	SPOKES	3.5x186mm	Chrome	36
4-A-2	MPT-0455	1551400009210	SPOKE CAP - FRONT WHEEL - BLACK	C174	SPOKE CAP		Black	36
4-A-2	MPT-0454	1551400009200	SPOKE CAP - FRONT WHEEL - CHROME	C174	SPOKE CAP		Chrome	36
4-A-3	MPT-0006	1020210090000	WHEEL - RIM - FRONT AND REAR - 2.5x18 - BLACK	C140	RIM	2.5x18	Black	1
4-A-3	MPT-0007	1020210092000	WHEEL - RIM - FRONT AND REAR - 2.5x18 - CHROME	C140	RIM	2.5x18	Chrome	1
4-A-4	MPT-0452	1551400007000	HUB - FRONT - BLACK	C100	HUB		Black	1
4-A-5	MPT-0128	1080500022000	WHEEL BEARING - FRONT	C011	BEARING	ø15mmxø35mmxW11mm	No Colour	2
4-A-6	MPT-1174	1551400008400	WHEEL BEARING SEAL - FRONT - LH/RH	C153	SEAL	ø23xø37x7	No Colour	2
5	MPT-0257	1141400029100	BRAKE DISC - FRONT - ABS	C062	DISC		No Colour	1
6	MPT-0142	1081400070909	SPACER - FRONT WHEEL	C166	SPACER	ø15(M14x1.5)x288	No Colour	1
7	MPT-0140	1081400061008	WHEEL SPINDLE - FRONT - WITH NUT	C173	SPINDLE	M14(F15)x240x1.5	No Colour	1
7-1	MPT-0125	1080100142000	NUT - WHEEL SPINDLE	C118	NUT		No Colour	1
8	MPT-0162	1090100999000	RIM TAPE	C141	RIM TAPE		No Colour	1
9	MPT-0375	1260100510000	WHEEL NUT RUBBER COVER - M17	C145	RUBBER COVER	M17	No Colour	1
10	MPT-0376	1260100520000	WHEEL NUT RUBBER COVER - M19	C145	RUBBER COVER	M19	No Colour	1
11	MPT-0845	7012808041168	STEP BOLT - M8x20 - DISC	C183	STEP BOLT	M8x20	No Colour	4

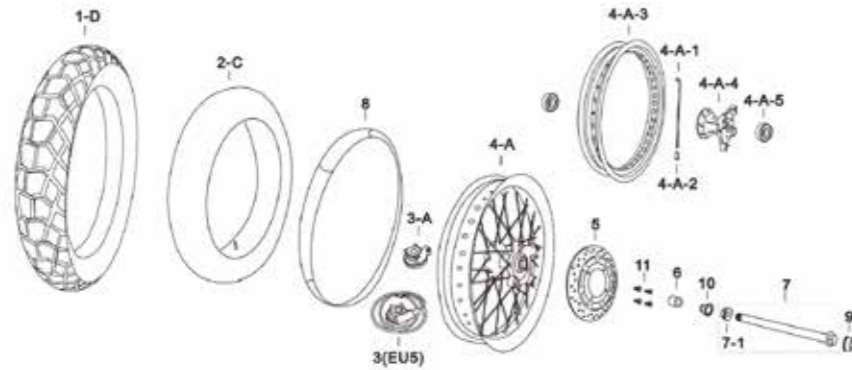


250EU502-F12D

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F12D	F12	WHEELS - FRONT

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-D	MPT-0157	1090100219000	TYRE - 120/90x18 823 - FRONT	C202	TYRE	120/90x18	No Colour	1
2-C	MPT-0154	1090100216000	INNER TUBE - 120/90x18	C103	INNER TUBE	120/90x18	No Colour	1
3	MPT-1253	1081400053000	SPEEDOMETER DRIVE - DIGITAL	C170	SPEEDO DRIVE		No Colour	1
4-A	MPT-0131	1081400014810	WHEEL - FRONT - ALL CHROME - STAINLESS SPOKES	C207	WHEEL	2.5x18 INCH	Chrome	1
4-A-1	MPT-0451	1551400005500	SPOKE - FRONT WHEEL - STAINLESS - CHROME	C175	SPOKES	3.5x186mm	Chrome	36
4-A-2	MPT-0454	1551400009200	SPOKE CAP - FRONT WHEEL - CHROME	C174	SPOKE CAP		Chrome	36
4-A-3	MPT-0007	1020210092000	WHEEL - RIM - FRONT AND REAR - 2.5x18 - CHROME	C140	RIM	2.5x18	Chrome	1
4-A-4	MPT-0452	1551400007000	HUB - FRONT - BLACK	C100	HUB		Black	1
4-A-5	MPT-0128	1080500022000	WHEEL BEARING - FRONT	C011	BEARING	ø15mmxø35mmxW11mm	No Colour	2
4-A-6	MPT-1357	1551400008700	WHEEL BEARING SEAL - FRONT - LH/RH	C153	SEAL	ø22xø35x5	No Colour	2
5	MPT-0257	1141400029100	BRAKE DISC - FRONT - ABS	C062	DISC		No Colour	1
6	MPT-0142	1081400070909	SPACER - FRONT WHEEL	C166	SPACER	ø15(M14x1.5)x288	No Colour	1
7	MPT-0140	1081400061008	WHEEL SPINDLE - FRONT - WITH NUT	C173	SPINDLE	M14(F15)x240x1.5	No Colour	1
7-1	MPT-0125	1080100142000	NUT - WHEEL SPINDLE	C118	NUT		No Colour	1
8	MPT-0162	1090100999000	RIM TAPE	C141	RIM TAPE		No Colour	1
9	MPT-0375	1260100510000	WHEEL NUT RUBBER COVER - M17	C145	RUBBER COVER	M17	No Colour	1
10	MPT-0376	1260100520000	WHEEL NUT RUBBER COVER - M19	C145	RUBBER COVER	M19	No Colour	1
11	MPT-0845	7012808041168	STEP BOLT - M8x20 - DISC	C183	STEP BOLT	M8x20	No Colour	4

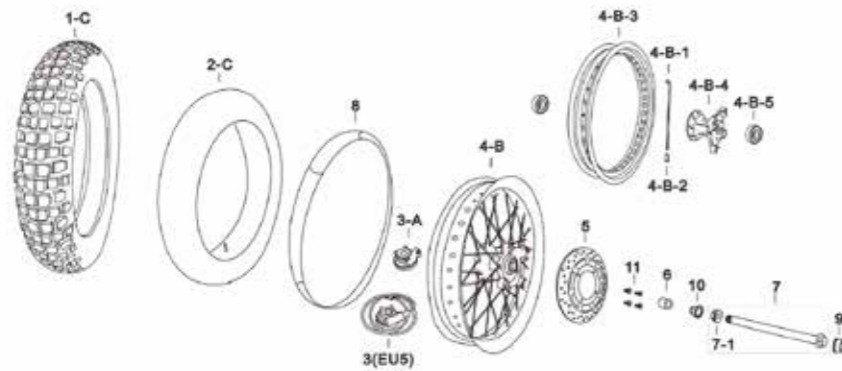


250EU502-F12E

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F12E	F12	WHEELS - FRONT

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-C	MPT-0153	1090100215000	TYRE - 120/90x18 65P	C202	TYRE	120/90x18	No Colour	1
2-C	MPT-0154	1090100216000	INNER TUBE - 120/90x18	C103	INNER TUBE	120/90x18	No Colour	1
3	MPT-1253	1081400053000	SPEEDOMETER DRIVE - DIGITAL	C170	SPEEDO DRIVE		No Colour	1
4-B	MPT-0132	1081400014910	WHEEL - FRONT - ALL BLACK - STAINLESS SPOKES - ALUMINIUM	C207	WHEEL	2.5x18 INCH	Black	1
4-B-1	MPT-0451	1551400005500	SPOKE - FRONT WHEEL - STAINLESS - CHROME	C175	SPOKES	3.5x186mm	Chrome	36
4-B-2	MPT-0454	1551400009200	SPOKE CAP - FRONT WHEEL - CHROME	C174	SPOKE CAP		Chrome	36
4-B-3	MPT-0008	1020210093000	WHEEL - RIM - ALUMINIUM - FRONT AND REAR - 2.5x18 - BLACK	C140	RIM	2.5x18	Black	1
4-B-4	MPT-0452	1551400007000	HUB - FRONT - BLACK	C100	HUB		Black	1
4-B-5	MPT-0128	1080500022000	WHEEL BEARING - FRONT	C011	BEARING	ø15mmxø35mmxW11mm	No Colour	2
4-B-6	MPT-1357	1551400008700	WHEEL BEARING SEAL - FRONT - LH/RH	C153	SEAL	ø22xø35x5	No Colour	2
5	MPT-0257	1141400029100	BRAKE DISC - FRONT - ABS	C062	DISC		No Colour	1
6	MPT-0142	1081400070909	SPACER - FRONT WHEEL	C166	SPACER		No Colour	1
7	MPT-0140	1081400061008	WHEEL SPINDLE - FRONT - WITH NUT	C173	SPINDLE	M14(F15)x240x1.5	No Colour	1
7-1	MPT-0125	1080100142000	NUT - WHEEL SPINDLE	C118	NUT		No Colour	1
8	MPT-0162	1090100999000	RIM TAPE	C141	RIM TAPE		No Colour	1
9	MPT-0375	1260100510000	WHEEL NUT RUBBER COVER - M17	C145	RUBBER COVER	M17	No Colour	1
10	MPT-0376	1260100520000	WHEEL NUT RUBBER COVER - M19	C145	RUBBER COVER	M19	No Colour	1
11	MPT-0848	7012808225167	NUT - HEX FLAT HEAD STEP BOLT - M8x25 - DISC	C183	STEP BOLT	M8x25	No Colour	4

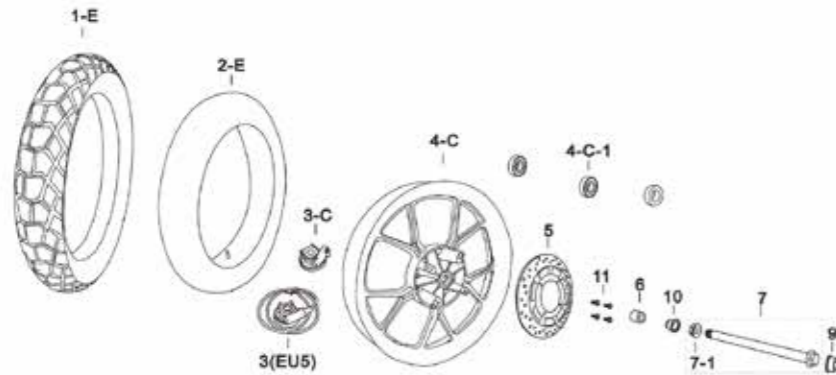


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ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F12F	F12	WHEELS - FRONT

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-E	MPT-0159	1090100265000	TYRE - 120/70x17 - FRONT	C202	TYRE	120/70x17	No Colour	1
2-E	MPT-0161	1090100960000	INNER TUBE - 120/70-17	C103	INNER TUBE	120/70x17	No Colour	1
3	MPT-1253	1081400053000	SPEEDOMETER DRIVE - DIGITAL	C170	SPEEDO DRIVE		No Colour	1
4-C	MPT-1406	1081400012110	WHEEL - FRONT - MAG - BLACK - MT17x2.5	C207	WHEEL	17 INCH	Black	1
4-C-1	MPT-0128	1080500022000	WHEEL BEARING - FRONT	C011	BEARING	ø15mmxø35mmxW11mm	No Colour	2
4-C-2	MPT-1357	1551400008700	WHEEL BEARING SEAL - FRONT - LH/RH	C153	SEAL	ø22xø35x5	No Colour	1
5	MPT-0257	1141400029100	BRAKE DISC - FRONT - ABS	C062	DISC		No Colour	1
6	MPT-0142	1081400070909	SPACER - FRONT WHEEL	C166	SPACER	ø15(M14x1.5)x288	No Colour	1
7	MPT-0140	1081400061008	WHEEL SPINDLE - FRONT - WITH NUT	C173	SPINDLE	M14(F15)x240x1.5	No Colour	1
7-1	MPT-0125	1080100142000	NUT - WHEEL SPINDLE	C118	NUT		No Colour	1
9	MPT-0375	1260100510000	WHEEL NUT RUBBER COVER - M17	C145	RUBBER COVER	M17	No Colour	1
10	MPT-0376	1260100520000	WHEEL NUT RUBBER COVER - M19	C145	RUBBER COVER	M19	No Colour	1
11	MPT-0845	7012808041168	STEP BOLT - M8x20 - DISC	C183	STEP BOLT	M8x20	No Colour	4
7-1	MPT-0125	1080100142000	NUT - WHEEL SPINDLE	C118	NUT		No Colour	1
8	MPT-0162	1090100999000	RIM TAPE	C141	RIM TAPE		No Colour	1
9	MPT-0375	1260100510000	WHEEL NUT RUBBER COVER - M17	C145	RUBBER COVER	M17	No Colour	1
10	MPT-0376	1260100520000	WHEEL NUT RUBBER COVER - M19	C145	RUBBER COVER	M19	No Colour	1
11	MPT-0848	7012808225167	NUT - HEX FLAT HEAD STEP BOLT - M8x25 - DISC	C183	STEP BOLT	M8x25	No Colour	4

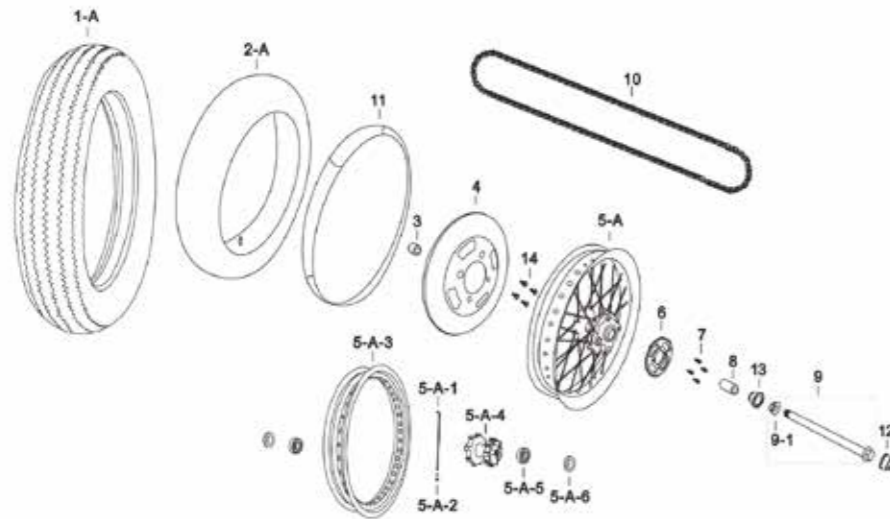


250EU502-F13A

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F13A	F13	WHEELS - REAR

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-A	MPT-0149	1090100195000	TYRE - 4.50x18 64S	C202	TYRE	4.50x18	No Colour	1
2-A	MPT-0150	1090100196000	INNER TUBE - 4.50x18	C103	INNER TUBE	4.50x18	No Colour	1
3	MPT-0144	1081400090908	SPACER - REAR WHEEL - LH	C166	SPACER	∅28x∅15x41	No Colour	1
4	MPT-0266	1141400042000	BRAKE DISC - REAR	C062	DISC		No Colour	1
5-A	MPT-0133	1081400026710	WHEEL - REAR - ALL BLACK - STAINLESS SPOKES	C207	WHEEL	2.5x18 INCH	Black	1
5-A-1	MPT-0449	1551400002410	SPOKE - REAR WHEEL - STAINLESS - BLACK	C175	SPOKES	3.5x207mm	Black	36
5-A-2	MPT-0455	1551400009210	SPOKE CAP - FRONT WHEEL - BLACK	C174	SPOKE CAP		Black	36
5-A-3	MPT-0006	1020210090000	WHEEL - RIM - FRONT AND REAR - 2.5x18 - BLACK	C140	RIM	2.5x18	Black	1
5-A-4	MPT-0453	1551400008000	HUB - REAR - BLACK	C100	HUB		Black	1
5-A-5	MPT-0127	1080500021000	WHEEL BEARING - REAR	C011	BEARING	∅15mmx∅42mmxW13mm	No Colour	2
5-A-6	MPT-1356	1551400008300	WHEEL BEARING SEAL - REAR - LH/RH	C153	SEAL	∅28x∅42x7	No Colour	1
6	MPT-0122	1070100075000	SPROCKET - REAR - 43T	C177	SPROCKET	43T	No Colour	1
7	MPT-0932	7112210030268	BOLT WITH WASHER - M10x30x1.25 - SPROCKET REAR	C013	BOLT WITH WASHER	M10x30x1.25	No Colour	4
8	MPT-0146	1081400100909	SPACER - REAR WHEEL - RH	C166	SPACER	∅27x∅15x13	No Colour	1
9	MPT-0143	1081400080908	WHEEL SPINDLE - REAR	C173	SPINDLE	∅28x∅15x51.5	No Colour	1
9-1	MPT-0125	1080100142000	NUT - WHEEL SPINDLE	C118	NUT		No Colour	1
10	MPT-0123	1070200091000	CHAIN - 520HO-108L	C036	CHAIN	520HO-108L	No Colour	1
11	MPT-0162	1090100999000	RIM TAPE	C141	RIM TAPE		No Colour	1
12	MPT-0375	1260100510000	WHEEL NUT RUBBER COVER - M17	C145	RUBBER COVER	M17	No Colour	1
13	MPT-0376	1260100520000	WHEEL NUT RUBBER COVER - M19	C145	RUBBER COVER	M19	No Colour	1
14	MPT-0848	7012808225167	NUT - HEX FLAT HEAD STEP BOLT - M8x25 - DISC	C183	STEP BOLT	M8x25	No Colour	4

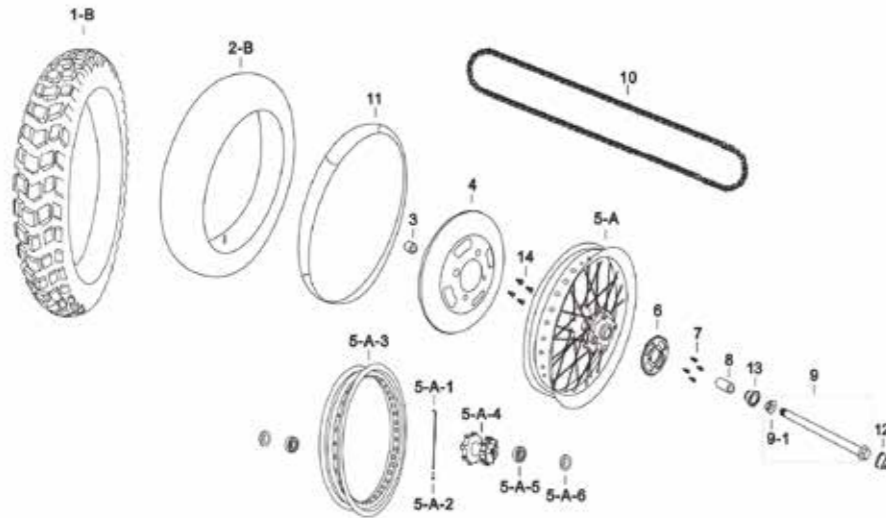


250EU502-F13B

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F13B	F13	WHEELS - REAR

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-B	MPT-0152	1090100198000	TYRE - 4.10x18 KNOBBLY 59P	C202	TYRE	4.10x18	No Colour	1
2-B	MPT-0147	1090100191000	INNER TUBE - YUANXING 4.1-18	C103	INNER TUBE	4.10x18	No Colour	1
3	MPT-0144	1081400090908	SPACER - REAR WHEEL - LH	C166	SPACER	∅28x∅15x41	No Colour	1
4	MPT-0266	1141400042000	BRAKE DISC - REAR	C062	DISC		No Colour	1
5-A	MPT-0133	1081400026710	WHEEL - REAR - ALL BLACK - STAINLESS SPOKES	C207	WHEEL	2.5x18 INCH	Black	1
5-A-1	MPT-0449	1551400002410	SPOKE - REAR WHEEL - STAINLESS - BLACK	C175	SPOKES	3.5x207mm	Black	36
5-A-2	MPT-0455	1551400009210	SPOKE CAP - FRONT WHEEL - BLACK	C174	SPOKE CAP		Black	36
5-A-3	MPT-0006	1020210090000	WHEEL - RIM - FRONT AND REAR - 2.5x18 - BLACK	C140	RIM	2.5x18	Black	1
5-A-4	MPT-0453	1551400008000	HUB - REAR - BLACK	C100	HUB		Black	1
5-A-5	MPT-0127	1080500021000	WHEEL BEARING - REAR	C011	BEARING	∅15mmx∅42mmxW13mm	No Colour	2
5-A-6	MPT-1356	1551400008300	WHEEL BEARING SEAL - REAR - LH/RH	C153	SEAL	∅28x∅42x7	No Colour	2
6	MPT-0122	1070100075000	SPROCKET - REAR - 43T	C177	SPROCKET	43T	No Colour	1
7	MPT-0932	7112210030268	BOLT WITH WASHER - M10x30x1.25 - SPROCKET REAR	C013	BOLT WITH WASHER	M10x30x1.25	No Colour	4
8	MPT-0146	1081400100909	SPACER - REAR WHEEL - RH	C166	SPACER	∅27x∅15x13	No Colour	1
9	MPT-0143	1081400080908	WHEEL SPINDLE - REAR	C173	SPINDLE	∅28x∅15x51.5	No Colour	1
9-1	MPT-0125	1080100142000	NUT - WHEEL SPINDLE	C118	NUT		No Colour	1
10	MPT-0123	1070200091000	CHAIN - 520HO-108L	C036	CHAIN	520HO-108L	No Colour	1
11	MPT-0162	1090100999000	RIM TAPE	C141	RIM TAPE		No Colour	1
12	MPT-0375	1260100510000	WHEEL NUT RUBBER COVER - M17	C145	RUBBER COVER	M17	No Colour	1
13	MPT-0376	1260100520000	WHEEL NUT RUBBER COVER - M19	C145	RUBBER COVER	M19	No Colour	1
14	MPT-0848	7012808225167	NUT - HEX FLAT HEAD STEP BOLT - M8x25 - DISC	C183	STEP BOLT	M8x25	No Colour	4

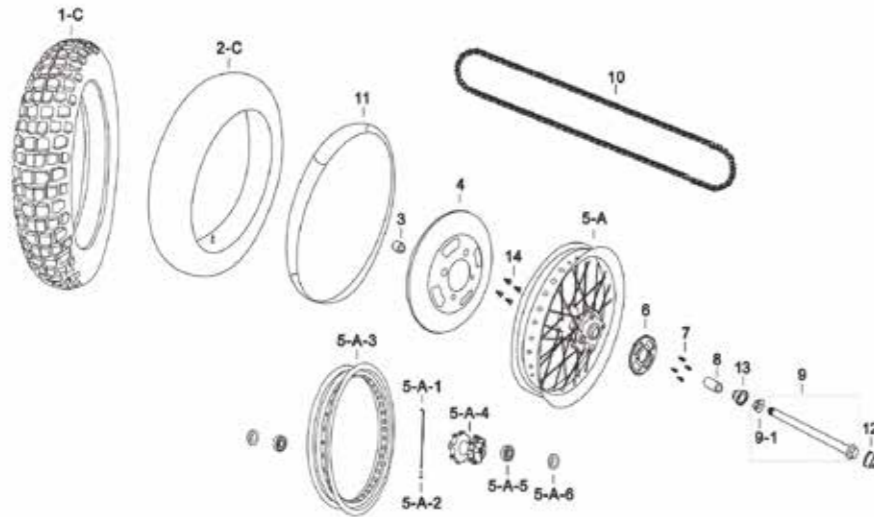


250EU502-F13C

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F13C	F13	WHEELS - REAR

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-C	MPT-0153	1090100215000	TYRE - 120/90x18 65P	C202	TYRE	120/90x18	No Colour	1
2-C	MPT-0154	1090100216000	INNER TUBE - 120/90x18	C103	INNER TUBE	120/90x18	No Colour	1
3	MPT-0144	1081400090908	SPACER - REAR WHEEL - LH	C166	SPACER	ø28xø15x41	No Colour	1
4	MPT-0266	1141400042000	BRAKE DISC - REAR	C062	DISC		No Colour	1
5-A	MPT-0133	1081400026710	WHEEL - REAR - ALL BLACK - STAINLESS SPOKES	C207	WHEEL	2.5x18 INCH	Black	1
5-A	MPT-0134	1081400028100	WHEEL - REAR - ALL CHROME - STAINLESS SPOKES	C207	WHEEL	2.5x18 INCH	Chrome	1
5-A-1	MPT-0449	1551400002410	SPOKE - REAR WHEEL - STAINLESS - BLACK	C175	SPOKES	3.5x207mm	Black	36
5-A-1	MPT-0448	1551400001410	SPOKE - REAR WHEEL - STAINLESS - CHROME	C175	SPOKES	3.5x207mm	Chrome	36
5-A-2	MPT-0455	1551400009210	SPOKE CAP - FRONT WHEEL - BLACK	C174	SPOKE CAP		Black	36
5-A-2	MPT-0454	1551400009200	SPOKE CAP - FRONT WHEEL - CHROME	C174	SPOKE CAP		Chrome	36
5-A-3	MPT-0006	1020210090000	WHEEL - RIM - FRONT AND REAR - 2.5x18 - BLACK	C140	RIM	2.5x18	Black	1
5-A-3	MPT-0007	1020210092000	WHEEL - RIM - FRONT AND REAR - 2.5x18 - CHROME	C140	RIM	2.5x18	Chrome	1
5-A-4	MPT-0453	1551400008000	HUB - REAR - BLACK	C100	HUB		Black	1
5-A-5	MPT-0127	1080500021000	WHEEL BEARING - REAR	C011	BEARING	ø15mmxø42mmxW13mm	No Colour	2
5-A-6	MPT-1356	1551400008300	WHEEL BEARING SEAL - REAR - LH/RH	C153	SEAL	ø28xø42x7	No Colour	
6	MPT-0122	1070100075000	SPROCKET - REAR - 43T	C177	SPROCKET	43T	No Colour	1
7	MPT-0932	7112210030268	BOLT WITH WASHER - M10x30x1.25 - SPROCKET REAR	C013	BOLT WITH WASHER	M10x30x1.25	No Colour	4
8	MPT-0146	1081400100909	SPACER - REAR WHEEL - RH	C166	SPACER	ø27xø15x13	No Colour	1
9	MPT-0143	1081400080908	WHEEL SPINDLE - REAR	C173	SPINDLE	ø28xø15x51.5	No Colour	1
9-1	MPT-0125	1080100142000	NUT - WHEEL SPINDLE	C118	NUT		No Colour	1
10	MPT-0123	1070200091000	CHAIN - 520HO-108L	C036	CHAIN	520HO-108L	No Colour	1
11	MPT-0162	1090100999000	RIM TAPE	C141	RIM TAPE		No Colour	1
12	MPT-0375	1260100510000	WHEEL NUT RUBBER COVER - M17	C145	RUBBER COVER	M17	No Colour	1
13	MPT-0376	1260100520000	WHEEL NUT RUBBER COVER - M19	C145	RUBBER COVER	M19	No Colour	1
14	MPT-0848	7012808225167	NUT - HEX FLAT HEAD STEP BOLT - M8x25 - DISC	C183	STEP BOLT	M8x25	No Colour	4

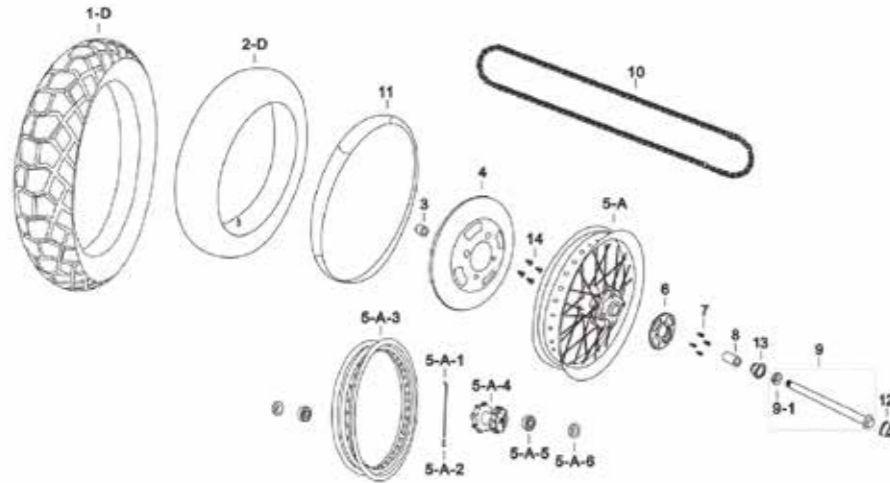


250EU502-F13D

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F13D	F13	WHEELS - REAR

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-D	MPT-0155	1090100217000	TYRE - 130/80x18 823	C202	TYRE	130/80x18	No Colour	1
2-D	MPT-0156	1090100218000	INNER TUBE - 130/80x18	C103	INNER TUBE	130/80x18	No Colour	1
3	MPT-0144	1081400090908	SPACER - REAR WHEEL - LH	C166	SPACER	∅28x∅15x41	No Colour	1
4	MPT-0266	1141400042000	BRAKE DISC - REAR	C062	DISC		No Colour	1
5-A	MPT-0134	1081400028100	WHEEL - REAR - ALL CHROME - STAINLESS SPOKES	C207	WHEEL	2.5x18 INCH	Chrome	1
5-A-1	MPT-0448	1551400001410	SPOKE - REAR WHEEL - STAINLESS - CHROME	C175	SPOKES	3.5x207mm	Chrome	36
5-A-2	MPT-0454	1551400009200	SPOKE CAP - FRONT WHEEL - CHROME	C174	SPOKE CAP		Chrome	36
5-A-3	MPT-0007	1020210092000	WHEEL - RIM - FRONT AND REAR - 2.5x18 - CHROME	C140	RIM	2.5x18	Chrome	1
5-A-4	MPT-0453	1551400008000	HUB - REAR - BLACK	C100	HUB		Black	1
5-A-5	MPT-0127	1080500021000	WHEEL BEARING - REAR	C011	BEARING	∅15mmx∅42mmxW13mm	No Colour	2
5-A-6	MPT-1172	1551400008500	WHEEL BEARING SEAL - REAR - RH	C153	SEAL	∅27x∅47x7	No Colour	1
5-A-7	MPT-1173	1551400008600	WHEEL BEARING SEAL - REAR - LH	C153	SEAL	∅28x∅42x7	No Colour	1
6	MPT-0122	1070100075000	SPROCKET - REAR - 43T	C177	SPROCKET	43T	No Colour	1
7	MPT-0932	7112210030268	BOLT WITH WASHER - M10x30x1.25 - SPROCKET REAR	C013	BOLT WITH WASHER	M10x30x1.25	No Colour	4
8	MPT-0146	1081400100909	SPACER - REAR WHEEL - RH	C166	SPACER	∅27x∅15x13	No Colour	1
9	MPT-0143	1081400080908	WHEEL SPINDLE - REAR	C173	SPINDLE	∅28x∅15x51.5	No Colour	1
9-1	MPT-0125	1080100142000	NUT - WHEEL SPINDLE	C118	NUT		No Colour	1
10	MPT-0123	1070200091000	CHAIN - 520HO-108L	C036	CHAIN	520HO-108L	No Colour	1
11	MPT-0162	1090100999000	RIM TAPE	C141	RIM TAPE		No Colour	1
12	MPT-0375	1260100510000	WHEEL NUT RUBBER COVER - M17	C145	RUBBER COVER	M17	No Colour	1
13	MPT-0376	1260100520000	WHEEL NUT RUBBER COVER - M19	C145	RUBBER COVER	M19	No Colour	1
14	MPT-0848	7012808225167	NUT - HEX FLAT HEAD STEP BOLT - M8x25 - DISC	C183	STEP BOLT	M8x25	No Colour	4

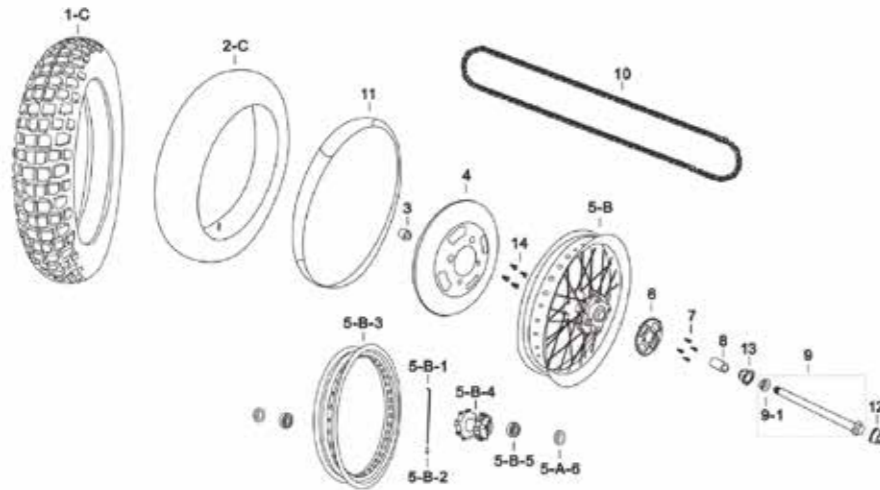


250EU502-F13E

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F13E	F13	WHEELS - REAR

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-C	MPT-0153	1090100215000	TYRE - 120/90x18 65P	C202	TYRE	120/90x18	No Colour	1
2-C	MPT-0154	1090100216000	INNER TUBE - 120/90x18	C103	INNER TUBE	120/90x18	No Colour	1
3	MPT-0144	1081400090908	SPACER - REAR WHEEL - LH	C166	SPACER	∅28x∅15x41	No Colour	1
4	MPT-0266	1141400042000	BRAKE DISC - REAR	C062	DISC		No Colour	1
5-B	MPT-0135	1081400029100	WHEEL - REAR - ALL BLACK - STAINLESS SPOKES - ALUMINIUM	C207	WHEEL	2.5x18 INCH	Black	1
5-B-1	MPT-0448	1551400001410	SPOKE - REAR WHEEL - STAINLESS - CHROME	C175	SPOKES	3.5x207mm	Chrome	36
5-B-2	MPT-0454	1551400009200	SPOKE CAP - FRONT WHEEL - CHROME	C174	SPOKE CAP		Chrome	36
5-B-3	MPT-0008	1020210093000	WHEEL - RIM - ALUMINIUM - FRONT AND REAR - 2.5x18 - BLACK	C140	RIM	2.5x18	Black	1
5-B-4	MPT-0453	1551400008000	HUB - REAR - BLACK	C100	HUB		Black	1
5-B-5	MPT-0127	1080500021000	WHEEL BEARING - REAR	C011	BEARING	∅15mmx∅42mmxW13mm	No Colour	2
5-B-6	MPT-1172	1551400008500	WHEEL BEARING SEAL - REAR - RH	C153	SEAL	∅27x∅47x7	No Colour	1
5-B-7	MPT-1173	1551400008600	WHEEL BEARING SEAL - REAR - LH	C153	SEAL	∅28x∅42x7	No Colour	1
6	MPT-0122	1070100075000	SPROCKET - REAR - 43T	C177	SPROCKET	43T	No Colour	1
7	MPT-0932	7112210030268	BOLT WITH WASHER - M10x30x1.25 - SPROCKET REAR	C013	BOLT WITH WASHER	M10x30x1.25	No Colour	4
8	MPT-0146	1081400100909	SPACER - REAR WHEEL - RH	C166	SPACER	∅27x∅15x13	No Colour	1
9	MPT-0143	1081400080908	WHEEL SPINDLE - REAR	C173	SPINDLE	∅28x∅15x51.5	No Colour	1
9-1	MPT-0125	1080100142000	NUT - WHEEL SPINDLE	C118	NUT		No Colour	1
10	MPT-0123	1070200091000	CHAIN - 520HO-108L	C036	CHAIN	520HO-108L	No Colour	1
11	MPT-0162	1090100999000	RIM TAPE	C141	RIM TAPE		No Colour	1
12	MPT-0375	1260100510000	WHEEL NUT RUBBER COVER - M17	C145	RUBBER COVER	M17	No Colour	1
13	MPT-0376	1260100520000	WHEEL NUT RUBBER COVER - M19	C145	RUBBER COVER	M19	No Colour	1
14	MPT-0848	7012808225167	NUT - HEX FLAT HEAD STEP BOLT - M8x25 - DISC	C183	STEP BOLT	M8x25	No Colour	4

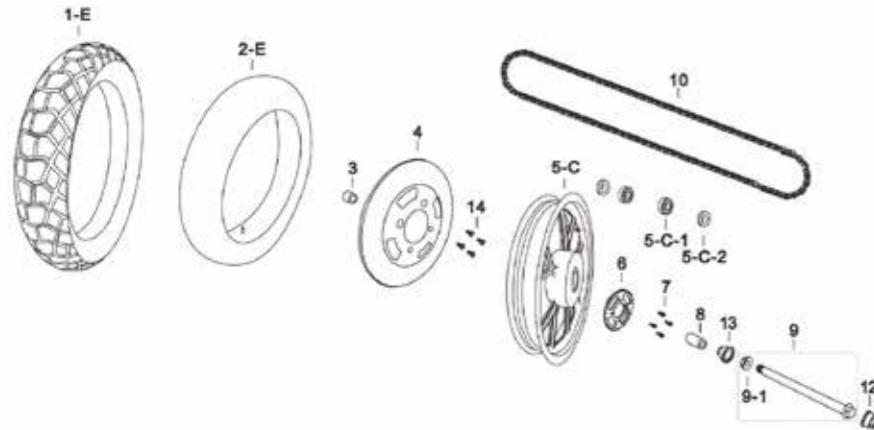


250EU502-F13F

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F13F	F13	WHEELS - REAR

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1-E	MPT-0160	1090100272000	TYRE - 130/70x17 - REAR	C202	TYRE	130/70x17	No Colour	1
2-E	MPT-0158	1090100260000	INNER TUBE - 130/70x17	C103	INNER TUBE	130/70x17	No Colour	1
3	MPT-1439	1081400090919	SPACER - REAR WHEEL - LH	C166	SPACER	∅35x∅15x∅40	No Colour	1
4	MPT-0266	1141400042000	BRAKE DISC - REAR	C062	DISC		No Colour	1
5-C	MPT-1440	1081400022110	WHEEL - REAR - MAG - BLACK - MT17x3.0	C207	WHEEL	3.0x17 INCH	Black	1
5-C-1	MPT-0127	1080500021000	WHEEL BEARING - REAR	C011	BEARING	∅15mmx∅42mmxW13mm	No Colour	2
5-C-2	MPT-1356	1551400008300	WHEEL BEARING SEAL - REAR - LH/RH	C153	SEAL	∅28x∅42x7	No Colour	
6	MPT-0122	1070100075000	SPROCKET - REAR - 43T	C177	SPROCKET	43T	No Colour	1
7	MPT-0932	7112210030268	BOLT WITH WASHER - M10x30x1.25 - SPROCKET REAR	C013	BOLT WITH WASHER	M10x30x1.25	No Colour	4
8	MPT-0146	1081400100909	SPACER - REAR WHEEL - RH	C166	SPACER	∅27x∅15x13	No Colour	1
9	MPT-0143	1081400080908	WHEEL SPINDLE - REAR	C173	SPINDLE	∅28x∅15x51.5	No Colour	1
9-1	MPT-0125	1080100142000	NUT - WHEEL SPINDLE	C118	NUT		No Colour	1
10	MPT-0123	1070200091000	CHAIN - 520HO-108L	C036	CHAIN	520HO-108L	No Colour	1
12	MPT-0375	1260100510000	WHEEL NUT RUBBER COVER - M17	C145	RUBBER COVER	M17	No Colour	1
13	MPT-0376	1260100520000	WHEEL NUT RUBBER COVER - M19	C145	RUBBER COVER	M19	No Colour	1
14	MPT-0848	7012808225167	NUT - HEX FLAT HEAD STEP BOLT - M8x25 - DISC	C183	STEP BOLT	M8x25	No Colour	4
9-1	MPT-0125	1080100142000	NUT - WHEEL SPINDLE	C118	NUT		No Colour	1
10	MPT-0123	1070200091000	CHAIN - 520HO-108L	C036	CHAIN	520HO-108L	No Colour	1
11	MPT-0162	1090100999000	RIM TAPE	C141	RIM TAPE		No Colour	1
12	MPT-0375	1260100510000	WHEEL NUT RUBBER COVER - M17	C145	RUBBER COVER	M17	No Colour	1
13	MPT-0376	1260100520000	WHEEL NUT RUBBER COVER - M19	C145	RUBBER COVER	M19	No Colour	1
14	MPT-0848	7012808225167	NUT - HEX FLAT HEAD STEP BOLT - M8x25 - DISC	C183	STEP BOLT	M8x25	No Colour	4

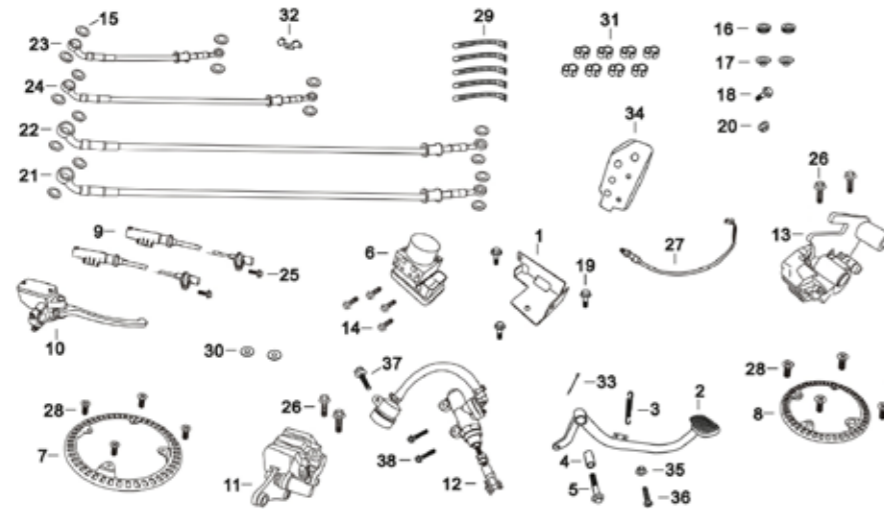


250EU502-F14A

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F14A	F14	BRAKES

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-1444	1041400031100	BRACKET - ABS MODULE - 2022 - SF	C015	BRACKET		No Colour	1
2	MPT-0088	1041400440003	BRAKE PEDAL - REAR	C018	BRAKE PEDAL		Black	1
2	MPT-0090	1041400450003	BRAKE PEDAL - REAR - LH EXHAUST	C018	BRAKE PEDAL		Black	1
3	MPT-0440	1290300031000	BRAKE PEDAL SPRING - RH EXHAUST	C176	SPRING	65mm	No Colour	1
3	MPT-0439	1290300030000	BRAKE PEDAL SPRING - LH EXHAUST	C176	SPRING	53mm	No Colour	1
4	MPT-0028	1040300061000	BRAKE PEDAL SPACER/BUSH	C167	SPACER/BUSH	31mm	No Colour	1
5	MPT-0852	7012810055268	HEX EYEBOLT - FLANGED - M10x55x1.25 - BRAKE PEDAL	C012	BOLT	M10x55x1.25	No Colour	1
6	MPT-1445	1142200170000	ABS MODULE - 2022 - SF	C001	ABS MODULE		No Colour	1
7	MPT-0272	1141400058000	ABS RING - FRONT	C002	ABS RING		No Colour	1
8	MPT-0267	1141400048000	ABS RING - REAR	C002	ABS RING		No Colour	1
9	MPT-1351	1181400110000	SPEEDOMETER SENSOR - ABS - FRONT	C159	SENSOR	1000mm	No Colour	2
10	MPT-0250	1141400015000	MASTER CYLINDER ASSEMBLY - FRONT - ø12.7MM	C113	MASTER CYLINDER ASSEMBLY	ø12.7mm	No Colour	1
10-1	MPT-0253	1141400016700	BRAKE LEVER - FRONT BRAKE	C109	LEVER		No Colour	1
10-1-B	MPT-1431	1141400015010	BRAKE LEVER - FRONT BRAKE - CNC	C109	LEVER		No Colour	1
11	MPT-0252	1141400015510	BRAKE CALIPER - FRONT - WITH BRACKET	C030	CALIPER		No Colour	1
11-1	MPT-0263	1141400038840	BRACKET - BRAKE CALIPER - FRONT	C015	BRACKET		No Colour	1
11-2	MPT-0469	1614000014000	BRAKE PADS - REAR - PAIR	C017	BRAKE PADS		No Colour	2
12	MPT-0268	1141400052000	MASTER CYLINDER - REAR - ø12.7MM	C112	MASTER CYLINDER	ø12.7mm	No Colour	1
12-1	MPT-0271	1141400057100	MASTER CYLINDER CUP - WITH HOSE	C120	OIL CUP		No Colour	1
13	MPT-0261	1141400038600	BRAKE CALIPER - REAR - WITH BRACKET	C030	CALIPER		No Colour	1
13-1	MPT-0262	1141400038800	BRACKET - BRAKE CALIPER - REAR	C015	BRACKET		No Colour	1
13-2	MPT-1184	1614000020000	BRAKE PADS - FRONT/REAR - PAIR	C017	BRAKE PADS		No Colour	2
14	MPT-0817	7012801222267	BANJO BOLT - FRONT - FINER - M10x22x1.0	C008	BANJO BOLT	M10x22x1.0	No Colour	4
15	MPT-0467	1611000122000	BRAKE LINE COPPER WASHER	C206	WASHER		No Colour	16
16	MPT-0384	1260300070000	RUBBER GROMMET - BATTERY	C146	RUBBER GROMMET		No Colour	2
17	MPT-0382	1260300060000	BATTERY BUSH BRACE - SMALL	C022	BUSH BRACE	SMALL	No Colour	2
18	MPT-0856	7013006016179	HEX BOLT - FLANGED - M6x16	C012	BOLT	M6x16	No Colour	1
19	MPT-0855	7013006012268	HEX BOLT - FLANGED - M6x12	C012	BOLT	M6x12	No Colour	3
20	MPT-0905	7032606000248	HEX NUT - FLANGED - M6	C118	NUT	M6	No Colour	1
21	MPT-1446	1141400053100	BRAKE HOSE - FRONT - DISC - A - 995MM	C016	BRAKE HOSE	995mm	No Colour	1
22	MPT-1447	1141400054200	BRAKE HOSE - FRONT - DISC - B - 1325MM	C016	BRAKE HOSE	1325mm	No Colour	1
23	MPT-1448	1141400018200	BRAKE HOSE - REAR - DISC - A - 255MM	C016	BRAKE HOSE	255mm	No Colour	1
24	MPT-1449	1141400019200	BRAKE HOSE - REAR - DISC - B - 490MM	C016	BRAKE HOSE	490mm	No Colour	1
25	MPT-0854	7013006012167	HEX BOLT - FLANGED - M6x12	C012	BOLT	M6x12	No Colour	2
26	MPT-0818	7012801222277	BANJO BOLT - FRONT - COARSE - M10x22x1.25	C008	BANJO BOLT	M10x22x1.25	No Colour	4
27	MPT-0466	1610400260000	SWITCH ASSEMBLY - BRAKE - REAR	C190	SWITCH ASSEMBLY		No Colour	1
28	MPT-0882	7022005012200	PHILLIPS PAN HEAD SCREW - M5x110	C152	SCREW	M5x110	No Colour	8
29	MPT-0404	12603000903100	CABLE TIES - 300x4.8	C029	CABLE TIES	300x4.8	No Colour	5
30	MPT-0920	7050310202038	WASHER - 10x20x2 - FRONT CALIPER	C206	WASHER	10x20x2	No Colour	2
31	MPT-0967	9890027000967	CABLE CLAMP	C027	CABLE CLAMP		No Colour	8
32	MPT-0068	1041400035000	BRAKE HOSE CLAMP - UPPER	C041	CLAMP		No Colour	1
33	MPT-0913	7040020016008	COTTER PIN - 2x16	C051	COTTER PIN	2x16	No Colour	1
34	MPT-0054	1041000085000	MASTER CYLINDER HEAL GUARD - REAR - BLACK	C115	MASTER CYLINDER REAR COVER		Black	1
34	MPT-0052	1041000084000	MASTER CYLINDER HEAL GUARD - REAR - BRUSHED	C114	MASTER CYLINDER COVER		Brushed Aluminium	1
35	MPT-0905	7032606000248	HEX NUT - FLANGED - M6	C118	NUT	M6	No Colour	1
36	MPT-0942	7501006030168	CROSS RECESSED HEX BOLT - M6x30(S=14) - BRAKE PEDAL	C012	BOLT	M6x30(S=14)	No Colour	1
37	MPT-0856	7013006016179	HEX BOLT - FLANGED - M6x16	C012	BOLT	M6x16	No Colour	1
38	MPT-0861	7013006030268	HEX BOLT - FLANGED - M6x30	C012	BOLT	M6x30	No Colour	2

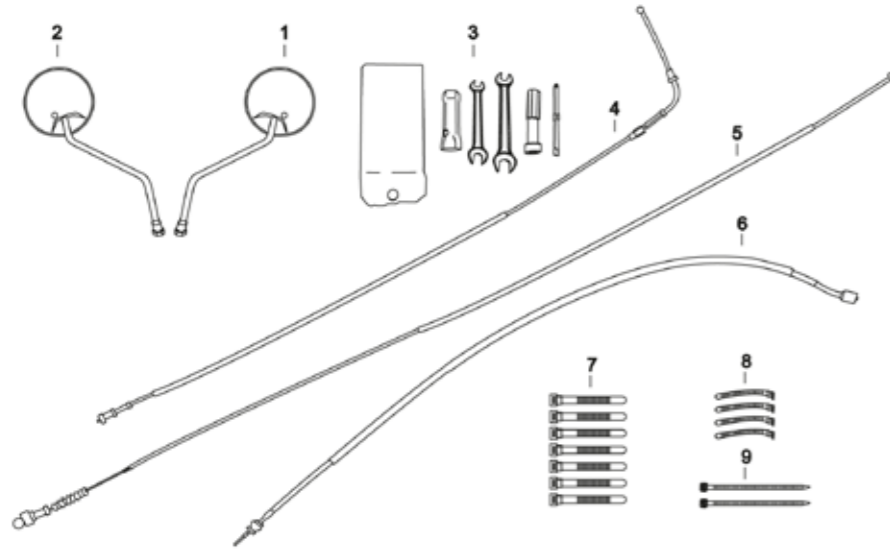


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ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
F15A	F15	CABLES, MIRRORS, TOOLS & MISC

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-0318	1201000051200	MIRROR - SINGLE - WITH SWIVEL ADAPTERS - BLACK - LH	C116	MIRROR		Black	1
1	MPT-0316	1201000011200	MIRROR - SINGLE - WITH SWIVEL ADAPTER - CHROME - LH	C116	MIRROR		Chrome	1
2	MPT-0319	1201000061200	MIRROR - SINGLE - WITH SWIVEL ADAPTERS - BLACK - RH	C116	MIRROR		Black	1
2	MPT-0317	1201000021200	MIRROR - SINGLE - WITH SWIVEL ADAPTER - CHROME - RH	C116	MIRROR		Chrome	1
3	MPT-0033	1040300370000	TOOL KIT	C200	TOOL KIT		No Colour	1
4	MPT-0435	1281400012200	THROTTLE CABLE	C026	CABLE		No Colour	1
5	MPT-0436	1281400028000	CLUTCH CABLE	C026	CABLE	820mm	No Colour	1
5	MPT-0437	1281400029000	CLUTCH CABLE	C026	CABLE	865mm	No Colour	1
6	MPT-0438	1281400036000	SPEEDOMETER CABLE	C026	CABLE	830mm	No Colour	1
6	MPT-0432	1281000041000	SPEEDOMETER CABLE	C026	CABLE	780mm	No Colour	1
7	MPT-0403	1260300901000	CABLE TIES - ZD135x8	C029	CABLE TIES	ZD135x8	No Colour	7
8	MPT-0404	1260300903100	CABLE TIES - 300x4.8	C029	CABLE TIES	300x4.8	No Colour	4
9	MPT-0405	1260300903200	CABLE TIES - 200x4.8	C029	CABLE TIES	200x4.8	No Colour	2
11	MPT-0431	1270203012000	VIN PLATE - NORMAL	C205	VIN PLATE		No Colour	1
12	MPT-0926	7082803010002	RIVETS - 3x10	C143	RIVET	3x10	No Colour	2

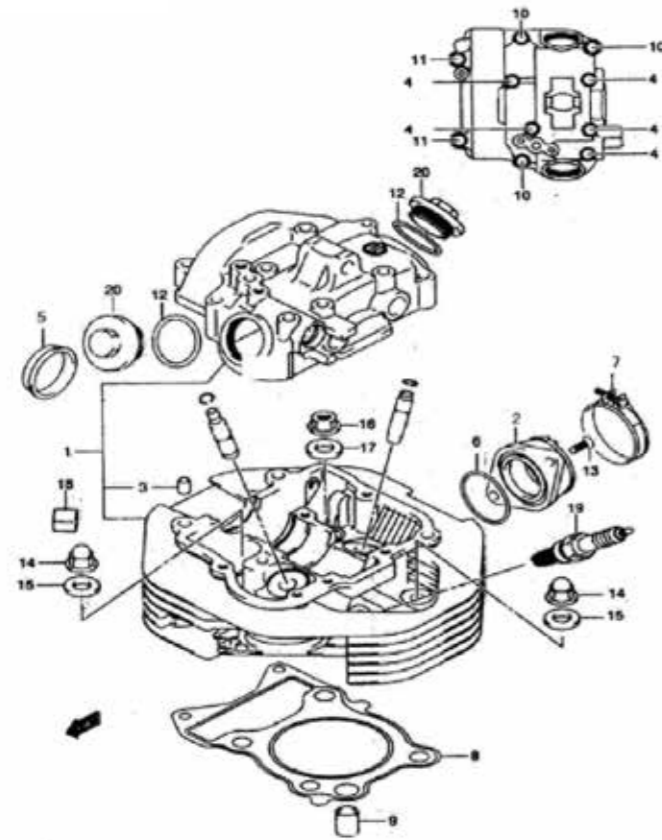


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ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
E01A	E01	CYLINDER HEAD

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-0514	6260020043002	CYLINDER HEAD ASSEMBLY	C060	CYLINDER HEAD ASSEMBLY		Black	1
3	MPT-0790	6301063100000	PIN - 8x11	C126	PIN	8x11	No Colour	2
4	MPT-0867	7013006060168	HEX BOLT - FLANGED - M6x60	C012	BOLT	M6x60	No Colour	5
5	MPT-0502	6260010080002	PLUG	C130	PLUG		No Colour	1
8	MPT-0761	6261020012000	CYLINDER HEAD GASKET	C088	GASKET		No Colour	1
9	MPT-0793	6301063400000	PIN - 13x18	C126	PIN	13x18	No Colour	2
10	MPT-0864	7013006045167	BOLT - M6x45	C012	BOLT	M6x45	No Colour	3
11	MPT-0953	7523710000105	CAP NUT - M6	C118	NUT	M6	No Colour	2
12	MPT-0735	6260120227000	O-RING - 3.0x29.5	C119	O-RING	3.0x29.5	No Colour	2
14	MPT-0952	7523710000104	CAP NUT - M10	C118	NUT	M10	No Colour	2
15	MPT-0532	6260020191100	WASHER	C206	WASHER		No Colour	2
16	MPT-0954	7523710000204	NUT - M10	C118	NUT	M10	No Colour	1
17	MPT-0533	6260020191200	WASHER	C206	WASHER		No Colour	1
18	MPT-0529	6260020172000	CYLINDER HEAD DAMPING BLOCK	C061	CYLINDER HEAD DAMPING BLOCK		No Colour	4
19	MPT-0512	6260020031000	SPARK PLUG - NGK (DR8EA)	C168	SPARK PLUG		No Colour	1
20	MPT-0504	6260010110000	INSPECTION HOLE CAP	C104	INSPECTION HOLE CAP		No Colour	2

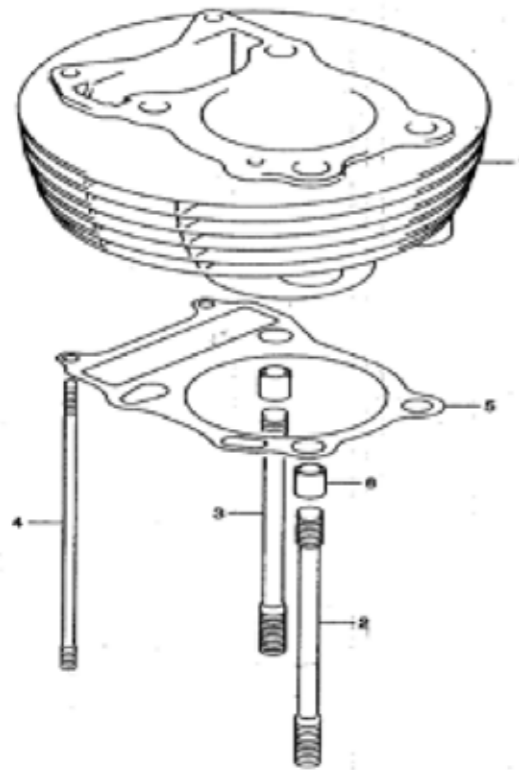


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ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
E02A	E02	CYLINDER

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-0515	6260020053002	CYLINDER BLOCK	C059	CYLINDER BLOCK		Black	1
2	MPT-0638	6260050161000	STUD BOLT - L=166	C012	BOLT	166mm	No Colour	3
3	MPT-0639	6260050162000	STUD BOLT - L=161	C012	BOLT	161mm	No Colour	1
4	MPT-0641	6260050171000	STUD BOLT - L=191	C012	BOLT	191mm	No Colour	2
5	MPT-0543	6260020272000	CYLINDER HEAD GASKET	C088	GASKET		No Colour	1
6	MPT-0761	6261020012000	PIN - 13x18	C126	PIN	13x18	No Colour	2

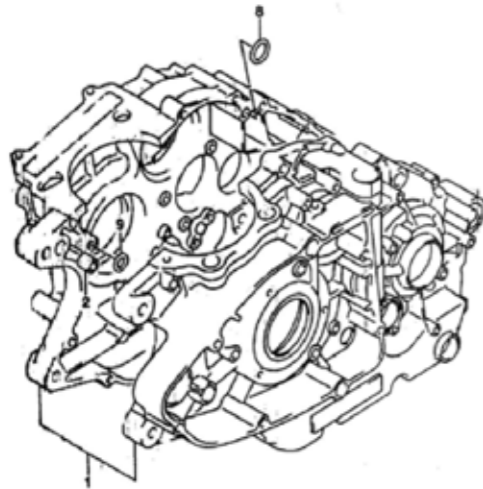
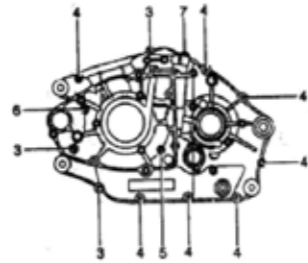


250EU502-E03A

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DIAGRAM REF.	GROUP REF.	GROUP
E03A	E03	CRANKCASE

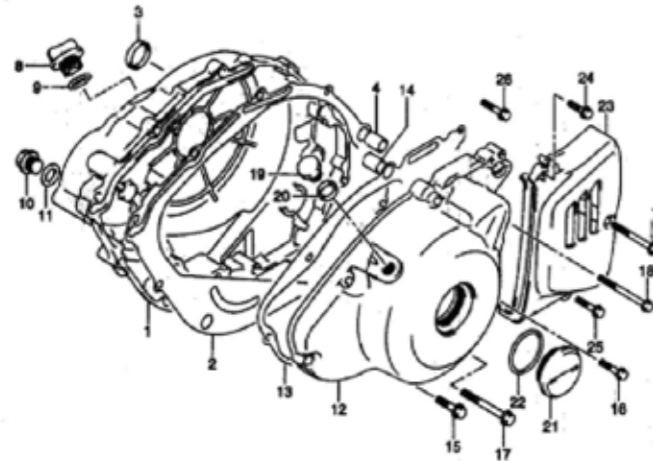
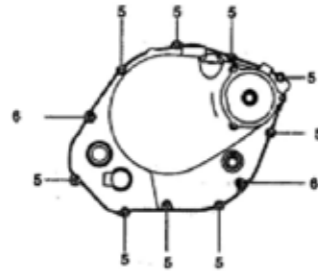
ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-0802	6401017003202	CRANKCASE	C056	CRANKCASE		Black	1
2	MPT-0793	6301063400000	PIN - 13x18	C126	PIN	13x18	No Colour	2
3	MPT-0831	7012806035104	BOLT - M6x35	C012	BOLT	M6x35	No Colour	4
4	MPT-0865	7013006045168	BOLT - M6x45	C012	BOLT	M6x45	No Colour	9
5	MPT-0836	7012806055104	BOLT - M6x55	C012	BOLT	M6x55	No Colour	1
6	MPT-0837	7012806060104	BOLT - M6x60	C012	BOLT	M6x60	No Colour	2
7	MPT-0838	7012806070104	BOLT - M6x70	C012	BOLT	M6x70	No Colour	1
8	MPT-0506	6260010240000	O-RING	C119	O-RING		No Colour	1
9	MPT-0740	6260120235000	O-RING	C119	O-RING		No Colour	1



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DIAGRAM REF.	GROUP REF.	GROUP
E04A	E04	CRANKCASE COVER

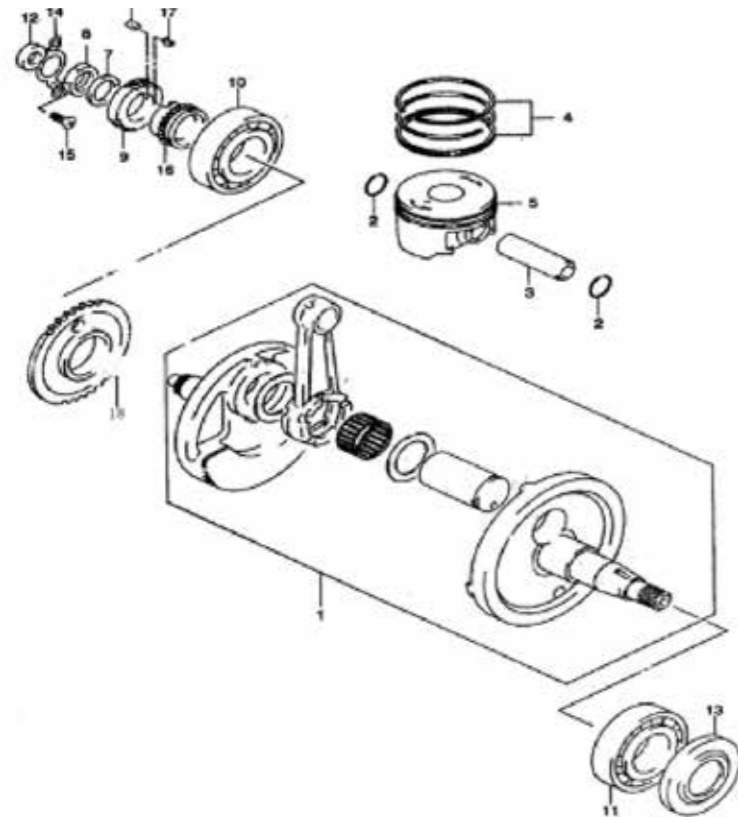


ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-0004	626012032002	CLUTCH COVER	C049	CLUTCH COVER		No Colour	1
2	MPT-0770	6261050021000	GASKET - CLUTCH COVER	C088	GASKET		No Colour	1
3	MPT-0654	6260050270000	LENS - OIL LEVEL	C108	LENS		No Colour	1
4	MPT-0793	6301063400000	PIN - 13x18	C126	PIN	13x18	No Colour	4
5	MPT-0830	7012806030174	BOLT - M6x30	C012	BOLT	M6x30	No Colour	9
6	MPT-0865	7013006045168	BOLT - M6x45	C012	BOLT	M6x45	No Colour	2
7	MPT-0827	7012805050154	BOLT - M5x50	C012	BOLT	M5x50	No Colour	1
8	MPT-0491	6260010010001	PLUG - OIL FILLER	C130	PLUG		No Colour	1
9	MPT-0739	6260120231000	O-RING - 3.1x16.8	C119	O-RING	3.1x16.8	No Colour	1
10	MPT-0497	6260010051000	PLUG - OIL CHECK - M14x12	C130	PLUG	M14x12	No Colour	1
11	MPT-0685	6260070040000	GASKET	C088	GASKET		No Colour	1
12	MPT-0684	6260070033002	MAGNETO COVER	C054	COVER		No Colour	1
13	MPT-0774	6261070012000	MAGNETO COVER GASKET	C088	GASKET		No Colour	1
14	MPT-0793	6301063400000	PIN - 13x18	C126	PIN	13x18	No Colour	2
15	MPT-0813	7012406025104	BOLT - M6x25	C012	BOLT	M6x25	No Colour	3
16	MPT-0831	7012806035104	BOLT - M6x35	C012	BOLT	M6x35	No Colour	1
17	MPT-0834	7012806050104	BOLT - M6x50	C012	BOLT	M6x50	No Colour	1
18	MPT-0837	7012806060104	BOLT - M6x60	C012	BOLT	M6x60	No Colour	1
19	MPT-0499	6260010060000	PLUG - TDC - M12x10	C130	PLUG	M12x10	No Colour	1
20	MPT-0691	6260070100000	GASKET	C088	GASKET		No Colour	1
21	MPT-0507	6260011100002	PLUG	C130	PLUG		Black	1
22	MPT-0495	6260010041000	O-RING	C119	O-RING		No Colour	1
23	MPT-0489	6250003004002	SPROCKET COVER	C178	SPROCKET COVER		No Colour	1
24	MPT-0820	7012805020154	BOLT - M5x20	C012	BOLT	M5x20	No Colour	1
25	MPT-0824	7012805030154	BOLT - M5x30	C012	BOLT	M5x30	No Colour	1
26	MPT-0822	7012805025154	BOLT - M5x25	C012	BOLT	M5x25	No Colour	1

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DIAGRAM REF.	GROUP REF.	GROUP
E05A	E05	CRANKSHAFT



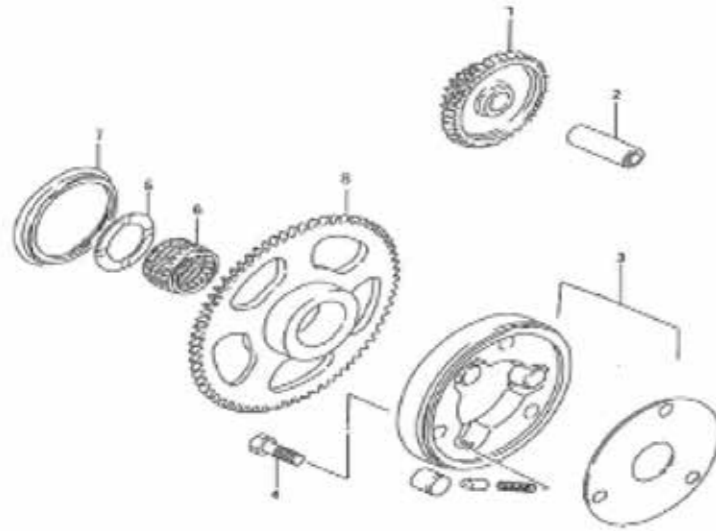
ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-0568	6260030012000	CRANKSHAFT ASSEMBLY	C058	CRANKSHAFT ASSEMBLY		No Colour	1
2	MPT-0481	6203005000310	CIRCLIP	C040	CIRCLIP		No Colour	2
3	MPT-0767	6261030031000	PISTON PIN	C126	PIN		No Colour	1
4	MPT-0766	6261030021000	PISTON RING SET	C142	RING		No Colour	1
5	MPT-0545	6260020282000	PISTON	C127	PISTON		No Colour	1
6	MPT-0601	6260030135000	KEY	C105	KEY		No Colour	1
7	MPT-0956	7549012210342	WASHER	C206	WASHER		No Colour	1
8	MPT-0610	6260040026000	OIL SEAL - RH	C124	OIL SEAL	14x26	No Colour	1
9	MPT-0593	6260030070001	PRIMARY DRIVE GEAR	C065	DRIVE GEAR		No Colour	1
10	MPT-0936	7120163060000	BEARING - 6306C3 - RH	C011	BEARING		No Colour	1
11	MPT-0937	7120163070000	BEARING - 6307C3 - LH	C011	BEARING		No Colour	1
12	MPT-0749	6260120420000	NUT - M20x1.5 - LEFT HANDED	C118	NUT	M20x1.5	No Colour	1
13	MPT-0689	6260070091000	WASHER	C206	WASHER		No Colour	1
14	MPT-0702	6260070270000	BEARING BRACKET	C015	BRACKET		No Colour	1
15	MPT-0804	7011005010159	BOLT - M5x10	C012	BOLT	M5x10	No Colour	2
16	MPT-0612	6260040031000	DRIVER BELT WHEEL/SPROCKET	C177	SPROCKET		No Colour	1
17	MPT-0599	6260030133000	KEY	C105	KEY		No Colour	1

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DIAGRAM REF.	GROUP REF.	GROUP
E06A	E06	STARTER CLUTCH

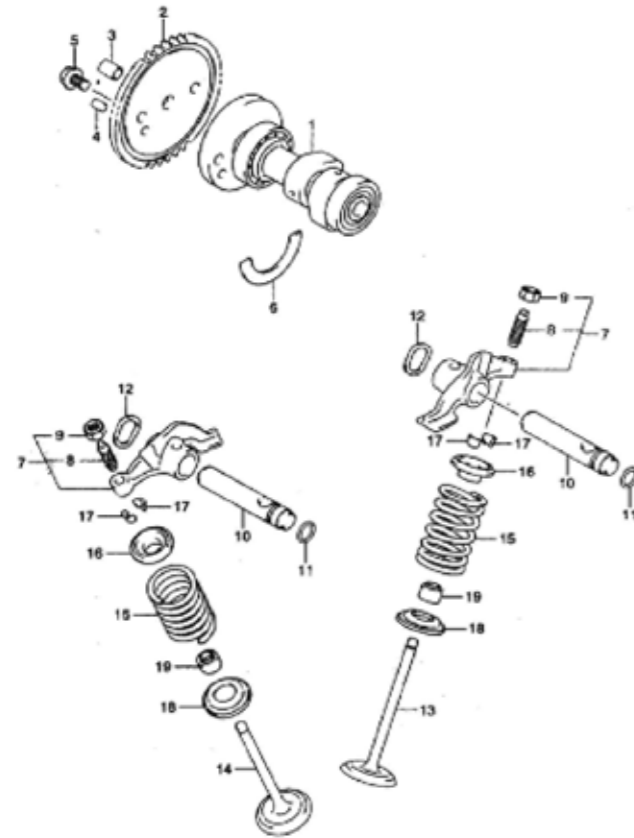
ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-0781	6261090041000	GEAR - STARTER IDLE	C089	GEAR		No Colour	1
2	MPT-0784	6261090051000	PIN - IDLER SHAFT	C126	PIN		No Colour	1
3	MPT-0771	6261050031000	CLUTCH STARTER ASSEMBLY	C045	CLUTCH		No Colour	1
4	MPT-0606	6260030600000	BOLT	C012	BOLT		No Colour	3
	MPT-0782	6261090042000	WHEEL BOARD	C129	PLATE		No Colour	1
5	MPT-0687	6260070081000	WASHER	C206	WASHER		No Colour	1
6	MPT-0575	6260030028000	NEEDLE ROLLER BEARING	C011	BEARING		No Colour	1
7	MPT-0611	6260040027000	OIL SEAL	C124	OIL SEAL		No Colour	1
8	MPT-0666	6260050352000	STARTER CLUTCH GEAR ASSEMBLY	C090	GEAR ASSEMBLY		No Colour	1



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DIAGRAM REF.	GROUP REF.	GROUP
E07A	E07	CAM SHAFT VALVE



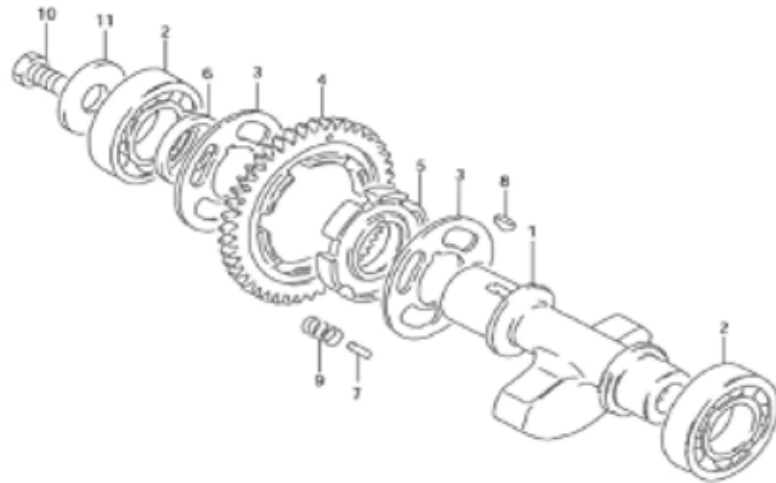
ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-0561	6260025061000	CAMSHAFT	C032	CAMSHAFT		No Colour	1
2	MPT-0613	6260040032000	SPROCKET	C177	SPROCKET		No Colour	1
3	MPT-0790	6301063100000	PIN - 8x11	C126	PIN	8x11	No Colour	1
4	MPT-0535	6260020222000	PIN	C126	PIN		No Colour	1
5	MPT-0854	7013006012167	HEX BOLT - FLANGED - M6x12	C012	BOLT	M6x12	No Colour	2
6	MPT-0600	6260030134000	C-RING - ROCKER SHAFT	C025	C-RING		No Colour	1
7	MPT-0520	6260020089000	ARM - VALVE ROCKER - INTAKE	C006	ARM		No Colour	2
8	MPT-0001	626001067500	BOLT - M6x0.75	C012	BOLT	M6x0.75	No Colour	2
9	MPT-0002	626001067600	NUT - M6x0.75	C118	NUT	M6x0.75	No Colour	2
10	MPT-0519	6260020088000	SHAFT - ROCKER ARM	C160	SHAFT		No Colour	2
11	MPT-0741	6260120236000	O-RING - 1.9x8.7	C119	O-RING	1.9x8.7	No Colour	2
12	MPT-0485	6212003052000	O-RING WAVE WASHER	C206	WASHER		No Colour	2
13	MPT-0764	6261025070000	VALVE - EXHAUST	C203	VALVE		No Colour	1
14	MPT-0763	6261025060000	VALVE - INTAKE	C203	VALVE		No Colour	1
15	MPT-0650	6260050243000	SPRING - VALVE	C176	SPRING		No Colour	2
16	MPT-0652	6260050252000	RETAINER SPRING	C176	SPRING		No Colour	2
17	MPT-0558	6260025030000	COTTER PIN - VALVE	C126	PIN		No Colour	4
18	MPT-0649	6260050242500	VALVE SPRING	C176	SPRING		No Colour	2
19	MPT-0557	6260020900000	OIL SEAL	C124	OIL SEAL		No Colour	2

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DIAGRAM REF.	GROUP REF.	GROUP
E08A	E08	CRANK BALANCER ASSEMBLY

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-0578	6260030053000	BALANCE SHAFT	C055	CRANK BALANCER		No Colour	1
2	MPT-0935	7120163050000	BEARING - 6305	C011	BEARING		No Colour	2
3	MPT-0579	6260030054000	WASHER - BALANCE SHAFT	C206	WASHER		No Colour	2
4	MPT-0616	6260040052000	DRIVE GEAR - CRANK BALANCER	C065	DRIVE GEAR		No Colour	1
5	MPT-0619	6260050052000	DRIVEN-GEAR - CRANK BALANCER - INSIDE TRACK	C065	DRIVE GEAR		No Colour	1
6	MPT-0705	6260080140000	WASHER	C206	WASHER		No Colour	1
7	MPT-0604	6260030222000	PIN	C126	PIN		No Colour	3
8	MPT-0602	6260030136000	KEY - 4x6.5x16	C105	KEY	4x6.5x16	No Colour	1
9	MPT-0580	6260030055000	SPRING - BALANCE SHAFT	C176	SPRING		No Colour	6
10	MPT-0752	6260120520000	BOLT- M12x20	C012	BOLT	M12x20	No Colour	1
11	MPT-0581	6260030056000	WASHER	C206	WASHER		No Colour	1

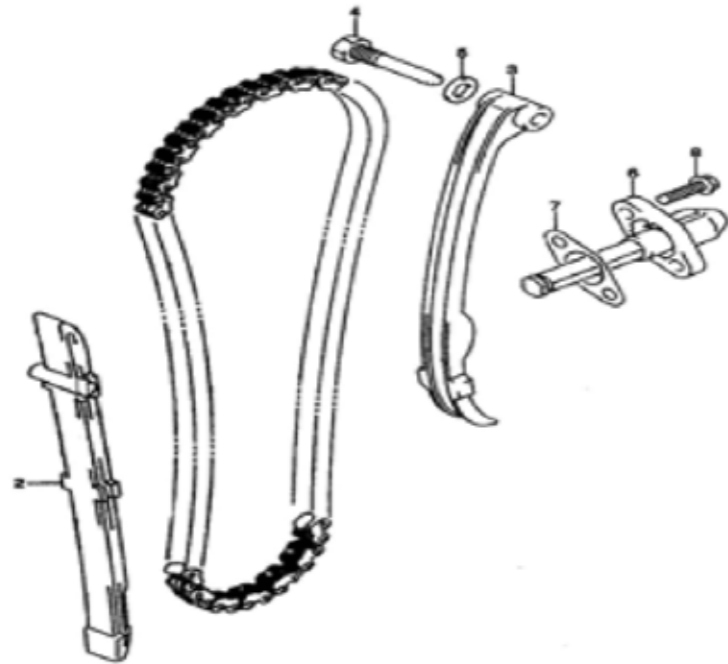


250EU502-E09A

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
E09A	E09	CAM CHAIN

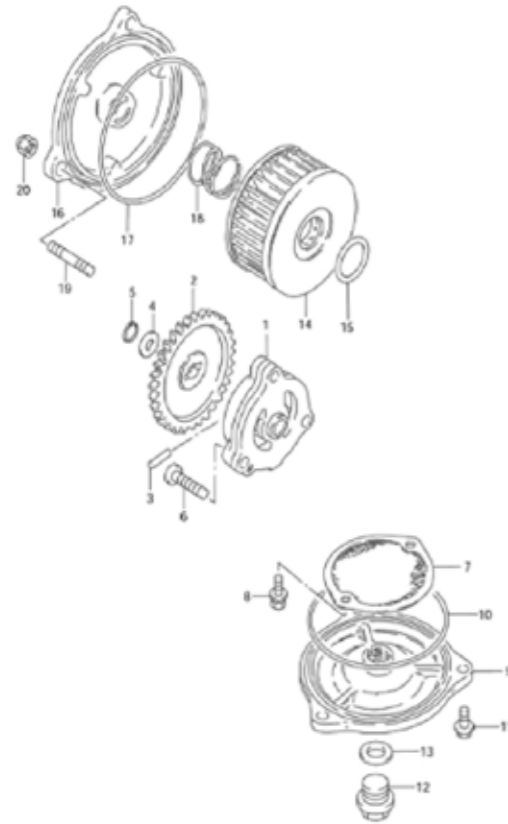
ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-0551	6260020470000	CHAIN - CAM SHAFT DRIVE	C036	CHAIN		No Colour	1
2	MPT-0552	6260020480000	GUIDE - CAM CHAIN	C094	GUIDE		No Colour	1
3	MPT-0553	6260020490000	TENSIONER - CAM CHAIN	C195	TENSIONER		No Colour	1
4	MPT-0923	7060308395102	BOLT - M8x39.5	C012	BOLT	M8x39.5	No Colour	1
5	MPT-0686	6260070042000	WASHER	C206	WASHER		No Colour	1
6	MPT-0678	6260060280000	ADJUSTER - TENSIONER	C003	ADJUSTER		No Colour	1
7	MPT-0530	6260020190000	GASKET - TENSIONER	C088	GASKET		No Colour	1
8	MPT-0829	7012806020104	BOLT - M6x20	C012	BOLT	M6x20	No Colour	2



250EU502-E10A

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
E10A	E10	OIL PUMP

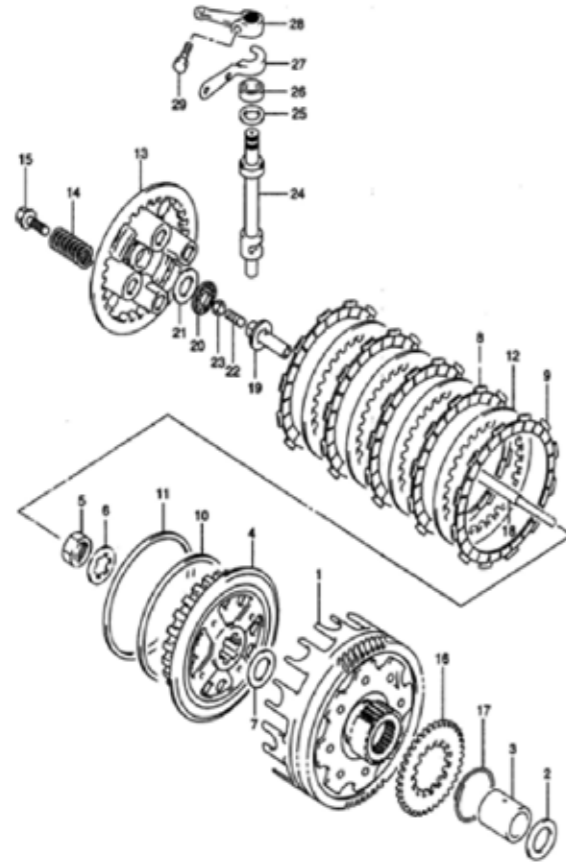


ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-0754	6260125030000	PUMP - ENGINE OIL	C131	PUMP		No Colour	1
2	MPT-0755	6260125040000	GEAR - OIL PUMP	C089	GEAR		No Colour	1
3	MPT-0799	6301942500000	PIN - DRIVE	C126	PIN		No Colour	1
4	MPT-0486	6212003060000	WASHER	C206	WASHER		No Colour	1
5	MPT-0743	6260120240000	CIRCLIP	C040	CIRCLIP		No Colour	1
6	MPT-0795	6301095100004	SCREW - M6x25	C152	SCREW	M6x25	No Colour	3
7	MPT-0753	6260125010003	STRAINER - ENGINE OIL	C185	STRAINER		No Colour	1
8	MPT-0927	7110605012168	SCREW - M5x12	C152	SCREW	M5x12	No Colour	2
9	MPT-0725	6260120050000	CAP - FILTER COVER	C033	CAP		No Colour	1
10	MPT-0737	6260120229100	O-RING	C119	O-RING		No Colour	1
11	MPT-0829	7012806020104	BOLT - M6x20	C012	BOLT	M6x20	No Colour	3
12	MPT-0496	6260010050000	PLUG - DRAIN - M14x12	C130	PLUG	M14x12	No Colour	1
13	MPT-0685	6260070040000	GASKET	C088	GASKET		No Colour	1
14	MPT-0744	6260120250000	OIL FILTER	C122	OIL FILTER		No Colour	1
15	MPT-0745	6260120256000	O-RING	C119	O-RING		No Colour	1
16	MPT-0756	6260125110002	CAP - FILTER COVER	C033	CAP		No Colour	1
17	MPT-0747	6260120300000	O-RING	C119	O-RING		No Colour	1
18	MPT-0730	6260120160001	SPRING	C176	SPRING		No Colour	1
19	MPT-0643	6260050210001	BOLT - M6x16	C012	BOLT	M6x16	No Colour	3
20	MPT-0953	7523710000105	CAP NUT - M6	C118	NUT	M6	No Colour	3
21	MPT-0789	6261120022000	OIL FILTER - PAPER GASKET	C088	GASKET		No Colour	1

250EU502-E11A

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
E11A	E11	CLUTCH

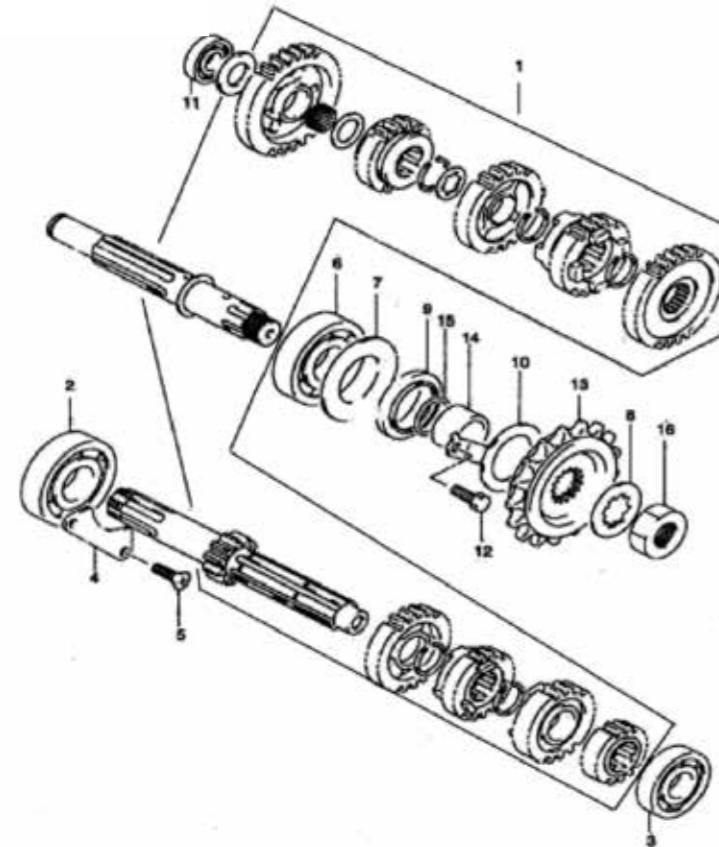


ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-0788	6261090080000	PRIMARY DRIVE GEAR ASSEMBLY	C065	DRIVE GEAR		No Colour	1
2	MPT-0757	6260250140000	WASHER	C206	WASHER		No Colour	2
3	MPT-0786	6261090070001	LARGE INNER CLUTCH HUB SLEEVE/SPACER	C166	SPACER		No Colour	1
4	MPT-0633	6260050093000	CLUTCH SLEEVE - SPLINED	C165	SLEEVE		No Colour	1
5	MPT-0493	6260010035000	NUT - M22x1.5	C118	NUT	M22x1.5	No Colour	1
6	MPT-0690	6260070093000	WASHER	C206	WASHER		No Colour	1
7	MPT-0772	6261050041000	CLUTCH ASSEMBLY	C045	CLUTCH		No Colour	1
8	MPT-0628	6260050072000	ACTIVE FRICTION PLATE A	C067	DRIVEN PLATE		No Colour	4
9	MPT-0629	6260050073000	ACTIVE FRICTION PLATE B	C067	DRIVEN PLATE		No Colour	1
10	MPT-0582	6260030057000	WASHER	C206	WASHER		No Colour	1
11	MPT-0957	7549012210343	WASHER	C206	WASHER		No Colour	1
12	MPT-0626	6260050067000	DRIVEN PLATE	C067	DRIVEN PLATE		No Colour	4
13	MPT-0634	6260050094000	CLUTCH SPRING PRESSURE PLATE	C129	PLATE		No Colour	1
14	MPT-0651	6260050250003	CLUTCH SPRING	C176	SPRING		No Colour	4
15	MPT-0811	7012406020172	BOLT - M6x20	C012	BOLT	M6x20	No Colour	4
16	MPT-0559	6260025050000	OIL PUMP DRIVE GEAR	C065	DRIVE GEAR		No Colour	1
17	MPT-0758	6260250200000	CIRCLIP	C040	CIRCLIP		No Colour	1
18	MPT-0562	6260025063000	PUSH ROD	C132	PUSH ROD		No Colour	1
19	MPT-0622	6260050062000	CLUTCH COLUMN TOP	C045	CLUTCH		No Colour	1
20	MPT-0574	6260030026000	THRUST BEARING	C011	BEARING		No Colour	1
21	MPT-0692	6260070120000	WASHER	C206	WASHER		No Colour	1
22	MPT-0564	6260025065000	SCREW - M6x25	C152	SCREW	M6x25	No Colour	1
23	MPT-0894	7031906000143	NUT - M6	C118	NUT	M6	No Colour	1
24	MPT-0624	6260050064000	CAMSHAFT	C032	CAMSHAFT		No Colour	1
25	MPT-0690	6260070093000	WASHER	C206	WASHER		No Colour	1
26	MPT-0711	6260100030000	OIL SEAL	C124	OIL SEAL		No Colour	1
27	MPT-0700	6260070261000	WASHER	C206	WASHER		No Colour	1
28	MPT-0566	6260025090000	CLUTCH ARM	C046	CLUTCH ARM		No Colour	1
29	MPT-0947	7512406020164	CLUTCH ROCKER HEX SCREW - M6x20	C152	SCREW	M6x20	No Colour	1

250EU502-E12A

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
E12A	E12	TRANSMISSION

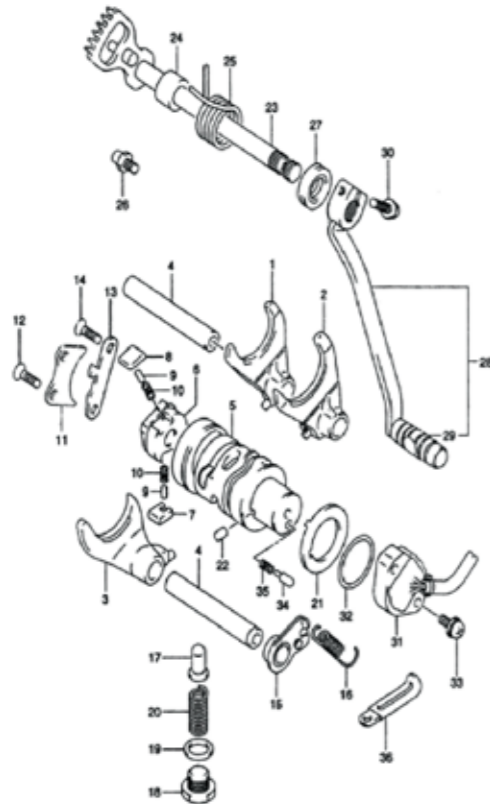


ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-0617	6260040061000	COUNTERSHAFT	C052	COUNTERSHAFT		No Colour	1
2	MPT-0938	7120163220000	BEARING - 63/22	C011	BEARING		No Colour	1
3	MPT-0934	7120162030001	BEARING - 6203Z	C011	BEARING		No Colour	1
4	MPT-0683	6260070016000	BEARING BRACKET	C015	BRACKET		No Colour	1
5	MPT-0884	7022006012165	SCREW - M6x12	C152	SCREW	M6x12	No Colour	2
6	MPT-0939	7120163220001	BEARING - 63/22RS	C011	BEARING		No Colour	1
7	MPT-0583	6260030058000	WASHER	C206	WASHER		No Colour	1
8	MPT-0697	6260070180000	WASHER	C206	WASHER		No Colour	1
9	MPT-0609	6260040021000	OIL SEAL	C124	OIL SEAL		No Colour	1
10	MPT-0702	6260070270000	BEARING BRACKET	C015	BRACKET		No Colour	1
11	MPT-0933	7120162030000	BEARING - 6203	C011	BEARING		No Colour	1
12	MPT-0808	7012406010164	BOLT - M6x12	C012	BOLT	M6x12	No Colour	2
13	MPT-0768	6261040020000	SPROCKET - FRONT (CHAIN WHEEL)	C177	SPROCKET		No Colour	1
14	MPT-0722	6260100180000	SPACER	C166	SPACER		No Colour	1
15	MPT-0554	6260020540000	O-RING	C119	O-RING		No Colour	1
16	MPT-0796	6301118180000	NUT - M18x1.5	C118	NUT	M18x1.5	No Colour	1

250EU502-E13A

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DIAGRAM REF.	GROUP REF.	GROUP
E13A	E13	GEAR SHIFT



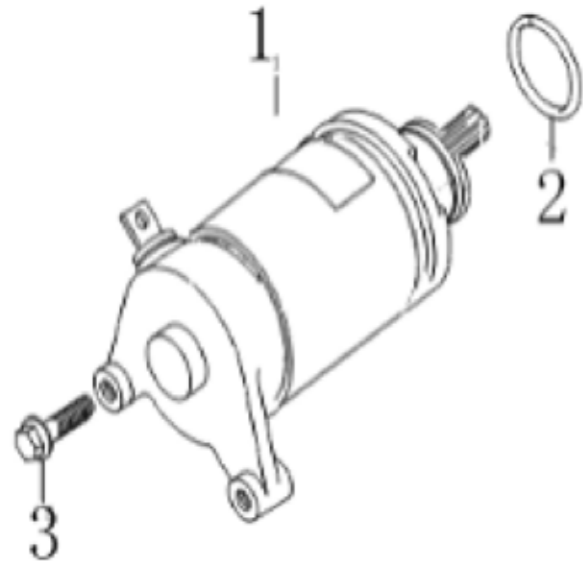
ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-0657	6260050300001	GEAR SHIFT FORK (1)	C077	FORK		No Colour	2
2	MPT-0658	6260050300002	GEAR SHIFT FORK (2)	C077	FORK		No Colour	1
3	MPT-0659	6260050300003	GEAR SHIFT FORK (3)	C077	FORK		No Colour	1
4	MPT-0660	6260050300004	SHAFT - FORK	C160	SHAFT		No Colour	1
5	MPT-0716	6260100091000	CAM - GEAR SHIFTING	C031	CAM		No Colour	1
6	MPT-0710	6260100012000	CAM - DRIVEN GEAR	C031	CAM		No Colour	1
7	MPT-0537	6260020223000	PAWL (1)	C125	PAWL		No Colour	1
8	MPT-0538	6260020224000	PAWL (2)	C125	PAWL		No Colour	1
9	MPT-0534	6260020220000	SHAFT PIN	C126	PIN		No Colour	1
10	MPT-0748	6260120360000	SPRING	C176	SPRING		No Colour	2
11	MPT-0560	6260025060000	LIFTER - PAWL	C125	PAWL		No Colour	2
12	MPT-0884	7022006012165	SCREW - M6x12	C152	SCREW	M6x12	No Colour	1
13	MPT-0676	6260060062000	CAM GUIDE	C094	GUIDE		No Colour	2
14	MPT-0884	7022006012165	SCREW - M6x12	C152	SCREW	M6x12	No Colour	1
15	MPT-0565	6260025070000	CAM STOPPER	C184	STOPPER		No Colour	2
16	MPT-0714	6260100071000	SPRING	C176	SPRING		No Colour	1
17	MPT-0539	6260020225000	NEUTRAL STOPPER	C126	PIN		No Colour	1
18	MPT-0498	6260010052000	PLUG - CAM STOPPER	C130	PLUG	M14x12	No Colour	1
19	MPT-0685	6260070040000	GASKET	C088	GASKET		No Colour	1
20	MPT-0746	6260120261000	CAM PIN SPRING	C176	SPRING		No Colour	1
21	MPT-0709	6260100011000	STOPPER PLATE	C184	STOPPER		No Colour	1
22	MPT-0536	6260020222000	PIN - 4x6	C126	PIN	4x6	No Colour	1
23	MPT-0720	6260100150000	SHAFT - GEAR SHIFTING	C160	SHAFT		No Colour	2
24	MPT-0717	6260100100000	SPACER	C166	SPACER		No Colour	1
25	MPT-0540	6260020230000	SHIFTING SHAFT TORSION SPRING	C176	SPRING		No Colour	1
26	MPT-0719	6260100140000	STOPPER - GEAR SHIFT ARM	C184	STOPPER		No Colour	1
27	MPT-0711	6260100030000	OIL SEAL	C124	OIL SEAL		No Colour	1
28	MPT-0035	1040300483100	GEAR LEVER - BLACK	C109	LEVER		Black	1
31	MPT-0712	6260100040000	TERMINAL BASE ASSEMBLY	C196	TERMINAL BASE ASSEMBLY		No Colour	1
32	MPT-0738	6260120230000	O-RING - 24x26.2	C119	O-RING	24x26.2	No Colour	1
33	MPT-0883	7022005020165	PHILLIPS HEAD SCREW - M5x20	C152	SCREW	M5x20	No Colour	1
34	MPT-0751	6260120461000	CONTACT PIN	C126	PIN		No Colour	1
35	MPT-0750	6260120460000	SPRING	C176	SPRING		No Colour	1

250EU502-E14A

ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
E14A	E14	STARTING MOTOR

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-1153	6260090072000	STARTER MOTOR ASSEMBLY	C180	STARTER MOTOR ASSEMBLY		No Colour	1
2	MPT-0742	6260120238000	O-RING - 3x24.5	C119	O-RING	3x24.5	No Colour	1
3	MPT-0830	7012806030174	BOLT - M6x30	C012	BOLT	M6x30	No Colour	2

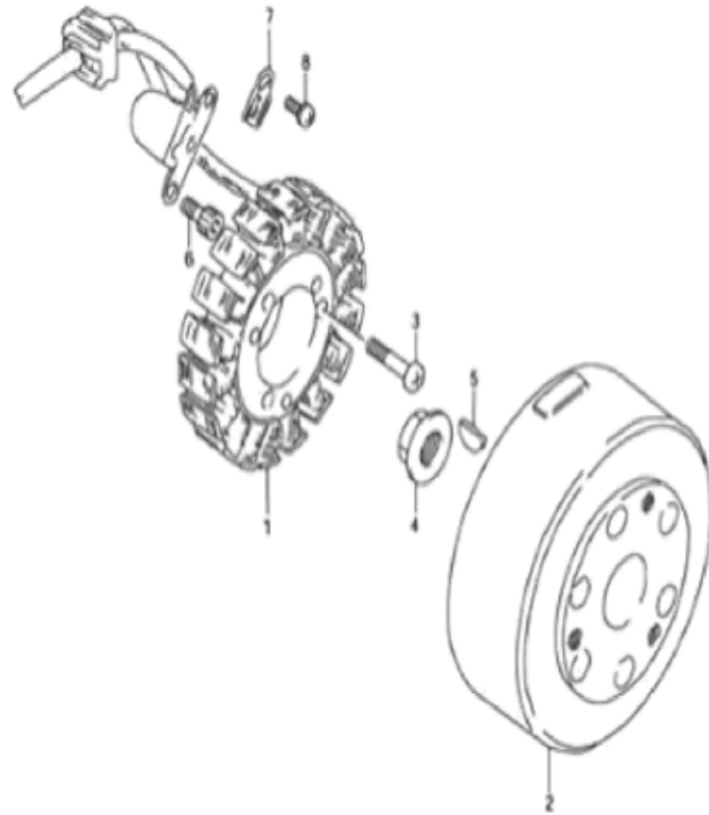


250EU502-E15A

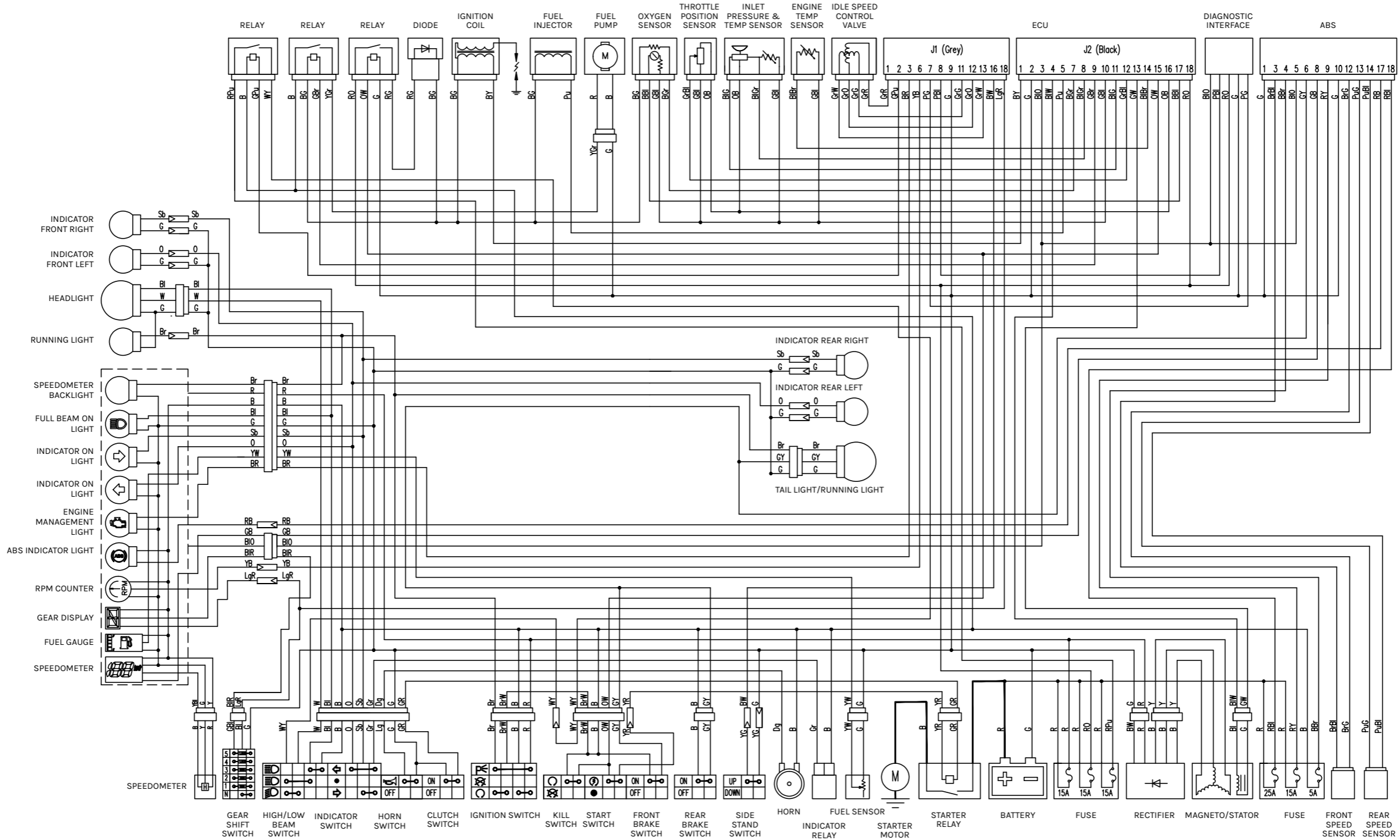
ENGINE	250	APPROVAL	EU5	VERSION	02
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DIAGRAM REF.	GROUP REF.	GROUP
E15A	E15	MAGNETO

ITEM NO.	MUTT PART NO.	BARCODE REF.	PART DESCRIPTION	CAT CODE	CATEGORY	SIZE	COLOUR	QTY.
1	MPT-0776	6261070033000	STATOR ASSEMBLY (ALTERNATOR)	C182	STATOR		No Colour	1
2	MPT-0778	6261070044000	FLYWHEEL	C075	FLYWHEEL		No Colour	1
3	MPT-0795	6301095100004	SCREW - M6x25	C152	SCREW	M6x25	No Colour	3
4	MPT-0508	6260016062000	NUT - M16	C118	NUT	M16	No Colour	1
5	MPT-0597	6260030130000	KEY - 3x13	C105	KEY		No Colour	1
6	MPT-0879	7021805012263	BOLT - M5x12	C012	BOLT	M5x12	No Colour	2
7	MPT-0509	6260016063000	WASHER	C206	WASHER		No Colour	1
8	MPT-0510	6260016064000	SCREW - M5x8	C152	SCREW	M5x8	No Colour	1



WIRING DIAGRAM



TORQUE SETTINGS



MAIN CHASSIS AND WHEEL COMPONENTS	5-10 NM	15-20 NM	25-30 NM	35-40 NM	45-50 NM	55-60 NM	65-70 NM	75-80NM
Front and Rear Axle						✓		
Rear Sprocket				✓				
Brake Disc Bolts Front/Rear			✓					
Shock Nuts			✓					
Fork Top Hat					✓			
Fork Damper Rod Retaining Bolt			✓					
Front/Rear Fender Bracket Mounting Bolts			✓					
Fender Bolts		✓						
Bar Clamps			✓					
Steering Stem Top Nut						✓		
Bottom Yoke Pinch Bolts				✓				
Top Yoke Pinch Bolts				✓				
Clutch Perch		✓						
Front Brake Perch		✓						
Swing Arm Axle						✓		
Foot Pegs					✓			
Rear Frame Loop			✓					

MAIN ENGINE COMPONENTS	5-10 NM	15-20 NM	25-30 NM	35-40 NM	45-50 NM	55-60 NM	65-70 NM	75-80NM
Front Engine Cradle Bolts					✓			
Top Engine Mount Bolts					✓			
Rear Engine Mount Bolt					✓			
Exhaust Header Bolts			✓					
Exhaust Coupler		✓						
Exhaust Silencer Mount			✓					
Exhaust Lambda Sensor		✓						
Cylinder Head Studs			✓					
Barrel Retainers		✓						
Cam Cover Bolts		✓						
Cam Gear Bolt		✓						
Cam Tensioner Bolts		✓						
Oil Drain Plug			✓					
Oil Filter Housing		✓						
Oil Sump Gauze Cover Bolts		✓						
Clutch Basket Main Nut					✓			
Flywheel Main Nut						✓		
Front Sprocket						✓		

HANDOVER - PRE-DELIVERY INSPECTION CHECKLIST



RAMP DOWN		
1.1	Check battery and charge if required	<input type="checkbox"/>
1.2	Fit battery terminals, ensuring they are tight and protection spray is used	<input type="checkbox"/>
1.3	Fit adjust and tighten mirrors	<input type="checkbox"/>
1.4	Check throttle and clutch cable for free play and correct operation	<input type="checkbox"/>
1.5	Check routing of cables and wiring, handlebars move freely (IMAGES A-E)	<input type="checkbox"/>
1.6	Check brake fluid levels (front & rear), top up if necessary (IMAGES F-G)	<input type="checkbox"/>
RAMP UP		
2.1	Check and clean all brake discs	<input type="checkbox"/>
2.2	Check fit of all brake pads	<input type="checkbox"/>
2.3	Check calliper mount bolts (IMAGE H)	<input type="checkbox"/>
2.4	Visually check tyres and wheels for tyre fit and rim run out	<input type="checkbox"/>
2.5	Check tyre pressures (29psi front & 32.6psi rear)	<input type="checkbox"/>
2.6	Check front and rear wheel bearings	<input type="checkbox"/>
2.7	Check steering head bearings	<input type="checkbox"/>
2.8	Check front axle is tight	<input type="checkbox"/>
2.9	Check chain drive tension and alignment.	<input type="checkbox"/>
2.10	Check swing arm bearings	<input type="checkbox"/>
2.11	Check shock bolts are tight	<input type="checkbox"/>

2.12	Check rear axle is tight	<input type="checkbox"/>
2.13	Check oil level (IMAGE I)	<input type="checkbox"/>
2.14	Fit registration plate.	<input type="checkbox"/>
2.15	Check all low level fastenings are tight - engine bolts/side stand bolts etc. (IMAGES J-K)	<input type="checkbox"/>
2.16	Check the taillight	<input type="checkbox"/>
RAMP DOWN		
3.1	Add fuel (3 Litres unless otherwise requested)	<input type="checkbox"/>
3.2	Turn on ignition - check for fuel pump priming/fuel leaks	<input type="checkbox"/>
3.3	Start bike and run up to temperature (minimum of 5 minutes)	<input type="checkbox"/>
3.4	Check all lights and switches - High & Low Beam/Indicators/Horn	<input type="checkbox"/>
3.5	Check kill switch	<input type="checkbox"/>
3.6	Re-start bike and check for idle changes and that bars move lock to lock	<input type="checkbox"/>
3.7	Check battery and charging system (13.3-14.5v)	<input type="checkbox"/>
3.8	Check side stand cut out switch	<input type="checkbox"/>
3.9	Check / fit tool kit (IMAGES L)	<input type="checkbox"/>
3.10	Check headlamp aim/height	<input type="checkbox"/>
3.11	Check steering lock and ignition switch	<input type="checkbox"/>
3.12	Check smooth operation of front and rear suspension	<input type="checkbox"/>
3.13	Switch off and re-check the oil level	<input type="checkbox"/>

HANDOVER - PRE-DELIVERY INSPECTION CHECKLIST



ROAD TEST (MINIMUM OF 3 MILES)		
IMPORTANT! When performing the Road Test, distance completed should be a minimum of 3 miles		<input type="checkbox"/>
4.1	Check smooth acceleration and deceleration	<input type="checkbox"/>
4.2	Check smooth and effective braking	<input type="checkbox"/>
4.3	Check smooth operation of the steering and suspension	<input type="checkbox"/>
4.4	Ensure there are no unusual engine noises or rattles	<input type="checkbox"/>
4.5	Turn off the engine and restart to check hot restart and idling	<input type="checkbox"/>
FINAL CHECKS (BIKE OFF AND COOLED)		
5.1	Re-check oil level and perform a visual check for leaks	<input type="checkbox"/>
5.2	Re-check final drive for tension and alignment	<input type="checkbox"/>
5.3	Clean and polish the bike ready for handover	<input type="checkbox"/>

HANDOVER		
6.1	Fully advise the owner on operation, routine servicing and safety precautions	<input type="checkbox"/>
6.2	Technician - Sign PDI	<input type="checkbox"/>
6.3	Handover owners hand book/warranty book	<input type="checkbox"/>
6.4	Handover owners tool kit	<input type="checkbox"/>
6.5	Handover keys	<input type="checkbox"/>
6.6	Complete the MUTT warranty registration form/certificate	<input type="checkbox"/>
6.7	Customer - Sign PDI	<input type="checkbox"/>

HANDOVER - PRE-DELIVERY INSPECTION CHECKLIST - IMAGE GUIDE



A	1.5 Check routing of cables and wiring, handlebars move freely
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B	1.5 Check routing of cables and wiring, handlebars move freely
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C	1.5 Check routing of cables and wiring, handlebars move freely
---	--



D	1.5 Check routing of cables and wiring, handlebars move freely
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E	1.5 Check routing of cables and wiring, handlebars move freely
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F	1.6 Check brake fluid levels (front & rear), top up if necessary
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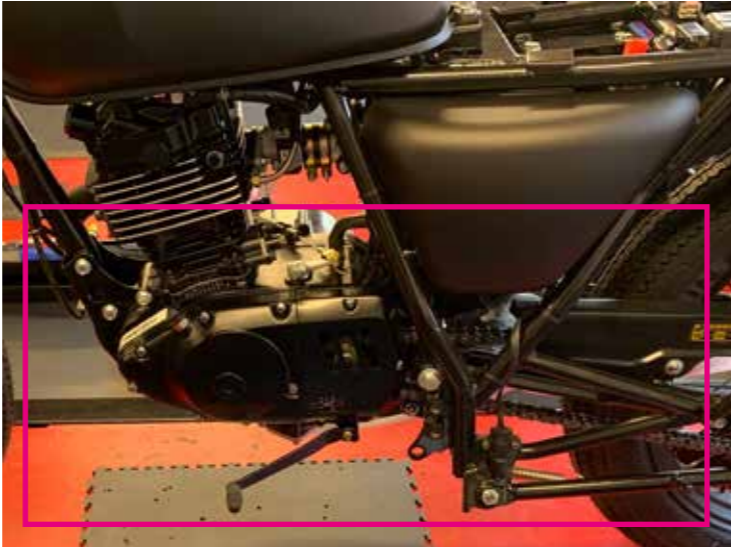


G	1.6 Check brake fluid levels (front & rear), top up if necessary
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H	2.3 Check calliper mount bolts
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HANDOVER - PRE-DELIVERY INSPECTION CHECKLIST - IMAGE GUIDE



I	2.3 Check oil level
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J	2.15 Check all low level fastenings are tight - engine bolts/side stand bolts etc.
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K	2.15 Check all low level fastenings are tight - engine bolts/side stand bolts etc.
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L	3.9 Check/fit tool kit
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SERVICE INFORMATION - SERVICE SCHEDULE & GENERAL GUIDANCE



It is important that regular servicing is carried out on our motorcycles. The service schedule is outlined below. Please follow the detailed service procedures outlined for each service.

Service schedule and procedures apply to **all 125cc and 250cc bike models**.

SERVICE	INTERVAL
FIRST SERVICE	800KM
SECOND SERVICE	4,000KM
THIRD SERVICE	8,000KM
FOURTH SERVICE	12,000KM
FIFTH SERVICE	16,000KM
SIXTH SERVICE ONWARDS	Every +4,000KM from 20,000KM on

CAUTION

Proper service and repair procedures are essential for the service technician's safety and the motorcycle's safety and reliability. When two or more people work together, pay attention to each other's safety. When it is necessary to run the engine indoors, ensure removal of any exhaust gas using extraction. When working with any toxic or flammable materials, make sure that the area you work in is well ventilated and that you follow all of the material manufacturer's instructions. Never use petrol as a cleaning solvent. To avoid getting burned, do not touch the engine, engine oil or exhaust system during or shortly after engine operation. After servicing the fuel, oil, exhaust or brake system, check all lines and fittings related to these systems for leakage. When working on the brake system, when completed, ALWAYS ensure proper brake system operation.

If parts replacement is necessary, replace the parts with MUTT genuine or approved parts. When removing parts that will be re-used, keep them arranged in an orderly manner for re-installation in the proper order and orientation. Make sure that all components used in reassembly are clean and lubricated where specified. When performing service to electrical parts, if the service procedures do not require battery power, disconnect the positive terminal. When removing the battery, disconnect the negative cable first and then the positive cable. When reconnecting the battery, connect the positive cable first and then the negative cable, and replace the terminal cover on the positive terminal. Whenever you remove oil seals, gaskets, packing, O-rings, locking washers, cotter pins, circlips, and certain other parts as specified, be sure to replace them with new ones. Before installing new parts, remove any unwanted material from the mating surfaces. After installing a circlip, always ensure that it is completely seated in its groove and securely fitted. Do not re-use locking nuts. Use a torque wrench to tighten fasteners to the torque values specified. After reassembly, check parts for tightness and correct operation.

SUSTAINABILITY

To protect the environment, do not unlawfully dispose of used motor oil and other fluids, batteries and tyres. To ensure that we operate as sustainably as possible, always ensure proper disposal of used motorcycle parts. Whenever possible, we should find ways to recycle and re-use parts and components.

IMPORTANT

Please note that the warnings and the cautions contained in this manual cannot cover all potential hazards relating to the servicing, or lack of servicing, of the motorcycle. In addition to the WARNING and CAUTION stated, you must use good judgment and basic mechanical safety principles. If you are unsure how to perform a particular service operation, ask a more experienced technician for advice.

SERVICE INFORMATION - FIRST SERVICE



SUMMARY

1. PREPARE THE MOTORCYCLE
2. CHECK LIGHTING SYSTEMS
3. CHECK ELECTRONIC HAND CONTROLS
4. TURN OFF THE MOTORCYCLE
5. DRAIN OIL
6. REMOVE AND REPLACE OIL FILTER
7. REPLACE OIL
8. CLEAN AIR FILTER
9. CHECK SPARK PLUG
10. CHECK REAR WHEEL AND TYRE
11. CHECK AND LUBRICATE CHAIN
12. CHECK FRONT WHEEL AND TYRE
13. DIAGNOSTIC CHECK
14. FINAL CHECK & CLEAN

1. PREPARE THE MOTORCYCLE

- 1.1. Place the motorcycle on the ramp and secure safely.
- 1.2. Starting and warming the motorcycle is required to thin the engine oil to make it easier to drain. Start the bike in the usual manner; make sure the bike is in neutral, pull in the clutch and make sure the side stand is up.

2. CHECK LIGHTING SYSTEMS

- 2.1. With the bike running check the lighting systems:
- 2.2. **Headlight:** Check that the headlight and sidelight bulbs are running to their full capacity.
- 2.3. **Main beam:** Check that the main beam bulb is running at full capacity when switched on. Make sure that this doesn't affect any other headlight bulbs when switched on.
- 2.4. **Front and rear indicators:** Check that all four indicators are flashing at the correct speed (60-120 FPM) and that none of the bulbs is dim or defective.
- 2.5. **Rear running light:** Check that the rear day running light is continuously running without any intermittent flashes or flickers.
- 2.6. **Brake light and front and rear actuators:** Check the rear brake light operation by placing one hand over the rear light cluster and pulling the front brake lever. Do the same again for the rear using your foot to press down the brake pedal.
- 2.7. **Number plate light:** Place your fingers underneath the light cluster checking for the bright white light.
- 2.8. If any of the above are not working or defective, consult the troubleshooting advice.

3. CHECK ELECTRONIC HAND CONTROLS

- 3.1. With the bike still running, check the electronic hand controls:
- 3.2. **Main beam flash switch:** Check if the main beam switches on/off using the yellow button on the LHS switchgear. Do this a few times, releasing the switch to check that the main beam goes off correctly.
- 3.3. **Main beam switch:** Switch the main beam switch to the on position and check if the main beam is on. Check the main beam indicator light is on.

- 3.4. **Horn button:** Press the horn button on the LHS switchgear and ensure the horn is triggered and audible.
- 3.5. **Indicator switch and cancelling operation:** Confirm the indicators operate correctly by sliding the indicator switch from right to left. Click the indicator switch entirely in to check the cancelling operation.
- 3.6. **Kill switch operation:** Move the red kill switch to the 'off' position. Restart the bike to continue warming the oil.

4. TURN OFF THE MOTORCYCLE

- 4.1. After three minutes of run time, turn the motorcycle off. Be careful around the bike once it is warmed up, particularly around the engine and exhaust, as it will now be hot.

5. DRAIN OIL

- 5.1. Use a suitable drain tub with a capacity of 1L or above. If the bike has no sump guard, move to step 5.3
- 5.2. Remove the sump guard using a 10mm socket or spanner. Undo the three 10mm bolts securing the sump guard plate in place. Keep these bolts safe. Check the anti-vibration rubber grommets fitted to the sump guard plate. Replace if torn or perished or showing other signs of wear. Worn grommets can cause severe vibration and excessive wear on the sump guard mounting points if they are not replaced. Remove the oil filler cap for better oil flow whilst draining.
- 5.3. Ensure that your oil drain tub is directly under the engine. Using a 17mm socket with an extension secured on the head of the sump plug, remove the plug by turning counter-clockwise. The sump plug is located on the triangular plate underneath the engine, directly in the middle.
CAUTION - The oil will be extremely hot - remove with care. We recommend that you wear heat-resistant rubber gloves during the draining process.
- 5.4. Clean and check the threads and washer on the sump plug. If there is any damage to either the threads or the washer, replace the sump plug. Replace the sump plug washer after a maximum of two oil changes.

SERVICE INFORMATION - FIRST SERVICE (Cont.)



- 5.5. Visually check the oil that is draining, looking for any obvious metal particulates. If metal particulates are present, then consult the troubleshooting advice.
- 5.6. Leave the oil to drain for approximately three minutes. Make sure the bike stays in the upright position throughout.
- 5.7. Once the oil has drained completely, refit the sump plug, ensuring that the washer is still fitted correctly. Tighten the sump plug clockwise to 25nm f. DO NOT overtighten the sump plug as there is a risk of stripping internal threads. Always make sure you pay attention to our torque specifications and observe the correct settings.
- 5.8. Clean any oil residue off of the engine using brake cleaner.

6. REMOVE AND REPLACE OIL FILTER

- 6.1. It is essential to change the oil filter during the first service. After the break-in process, metal particulates can gather in the oil filter. This is entirely normal and indicates that the engine has bedded in correctly.
- 6.2. Ensure that your drain tub is still underneath the motorcycle, then remove the three oil filter house nuts using a 10mm socket. Once removed, ease the oil filter housing cap away from the crankcase. Ensure you remove the cap carefully and try not to tear or damage the paper gasket or rubber O-ring. If you damage these items during this process, they will need replacement.
- 6.3. Remove the oil filter by extracting the filter out of the filter housing. Inspect the oil filter, looking for any obvious signs of damage. Remember that it is normal to find metal particles, especially during the first service.
- 6.4. Fit a new oil filter into the housing, ensuring that the oil filter is in the correct orientation.
- 6.5. Refit the oil filter housing, ensuring the correct fitting of the o-ring and paper gasket. Tighten the three 10mm nuts to 15nm.

7. REPLACE OIL

- 7.1. Remove the oil filler cap. Place a funnel in the oil fill port. Measure out 900MLs of 10w40 semi-synthetic motorcycle oil. Place the oil into the engine slowly, being careful not to spill any oil.

- 7.2. After adding the required amount of oil, replace the oil filler cap and check for any leaks on the sump plug. Remove the drain tub and dispose of the oil accordingly.
- 7.3. When you are confident the oil level is correct and that there are no apparent leaks, run the engine for approximately one minute to circulate the oil and refill the oil filter with clean oil. Start the motorcycle in the usual manner. Remember to run the motorcycle outside or with a ventilation system in place. Be careful of the hot engine and exhaust whilst running. If you find any leaks during the running process, turn the motorcycle off immediately. Trace the source and consult troubleshooting advice.
- 7.4. After running for one minute, turn the motorcycle off and leave for three minutes to cool. Check the oil by looking at the oil level window making sure the bike is entirely upright. If the oil level is below the centre of the window, remove the oil filler cap and add more oil until the window is 3/4 filled. Refit the oil filler cap and clean off any residue.
- 7.5. Refit the sump guard by bolting the sump guard plate back on to the sump guard mount. Fit the rubber grommets. Tighten the three 10mm sump guard plate bolts up to 40nm.

8. CLEAN AIR FILTER

- 8.1. Gain access to the airbox by removing the airbox side cover. Remove the three screws that hold the air filter tube in place. Slide the air filter tube out of the airbox. Remove the air filter from the tube. If you have access to an air compressor with an airline nozzle, use it to blow the air filter clean. If you do not have a compressor, clean thoroughly in warm water, then leave to dry.
- 8.2. Spray the air filter with air filter oil to the directions supplied by the manufacture of the product you are using. Refit the air filter by placing it back over the tube and slide it back into the airbox. Tighten the three screws to secure the air filter tube back into the airbox. Put the airbox cover back on, making sure that the rubber grommets are secured correctly.

9. CHECK SPARK PLUG

- 9.1. Remove the spark plug cap. Use a 10mm spark plug socket to

remove the spark plug, screwing counter-clockwise. Check the plug tip and side electrode. If they have turned entirely black, it can indicate a problem linked to the spark plug operation. If this is the case, see our troubleshooting advice for guidance.

- 9.2. Using a feeler gauge, check the spark plug gap, which should be 0.7-0.8mm. If you are not happy with the spark plug's condition, then replace with a new one.
- 9.3. Once you are happy with the spark plug's condition (or have replaced for new), you can refit. Using a 10mm spark plug socket tighten to 25nm. Once torqued to spec, give it a small nip with a ratchet to check that the crush washer is fully seated.
- 9.4. Push the spark plug cap onto the spark plug, making sure it makes a click.

10. CHECK REAR WHEEL AND TYRE

- 10.1. Jack the rear of the motorcycle up on the ramp using the jack point. Spin the wheel looking for any nails or objects that have penetrated the tire wall. While spinning the wheel, check the tire tread and shape condition, looking out for any delamination, odd wear patterns, or sidewall bulges.
- 10.2. Check the rear tire pressure is at the required 2.2 bar/32 psi. If the pressure is too low, re-pressurise to the required amount. If the tire pressure has dropped dramatically, carry out a puncture test. Consult troubleshooting advice for guidance.

11. CHECK AND LUBRICATE CHAIN

- 11.1. With the wheel jacked in the air, check the tension and lubrication of the chain.
- 11.2. Slack off the rear wheel axle to release tension from the chain tensioner block.
- 11.3. Loosen the lock nut off the adjuster by a few centimetres. Rotate the adjusting bolt using the increment marks on the swingarm as a guide. Ensuring the symmetrical movement of both left and right tensioners, check the chain tension. We recommend moving between 4-5mm. Take this measurement from the swingarm to the bottom of the chain. Tighten the adjuster lock nuts and rear axle nut. Fit the rubber axle nut cap securely.

SERVICE INFORMATION - FIRST SERVICE (Cont.)



- 11.4. To lubricate the chain, spin the wheel and spray the chain lube directly onto the chain. Remember to pay attention to the instructions of the product. Make a few passes then wipe the brake disc and tire clean.
- 11.5. Lower the jack and turn the bike around. Always make sure the bike is secured on the ramp when doing this. With the bike in the reverse position on the ramp, jack the front wheel into the air using the jacking point.

12. CHECK FRONT WHEEL AND TYRE

- 12.1. With the front wheel jacked up into the air, spin the wheel looking for any nails or objects that may have penetrated the tire wall. While spinning the wheel, check the tire tread and shape condition, looking out for any delamination, odd wear patterns, or sidewall bulges.
- 12.2. Check the rear tire pressure is at the required 2.2 bar/32 psi. If the pressure is too low, re-pressurise to the required amount. If the tire pressure has dropped dramatically, carry out a puncture test. Consult troubleshooting advice for guidance.
- 12.3. Lower and remove the jack from underneath the motorcycle.

13. DIAGNOSTIC CHECK

- 13.1. Remove the airbox side panel and find the diagnostics port. Remove the waterproof cover and plug in the MUTT diagnostic scanner. Follow the on-screen instructions and run an error code test. Consult our P codes troubleshooting booklet for guidance for any error codes shown. Refit the waterproof diagnostics port cover and refit the side panel if the test is clear.

14. FINAL CHECK & CLEAN

- 14.1. To complete the service, final lubrication and cleaning are required. Lubricate the following parts:
- 14.2. **Rider footpegs:** lubricate with white grease or penetrating oil. Wipe off ALL overspray from the exhaust and brake pedal.
- 14.3. **Passenger footpegs:** lubricate with white grease or penetrating oil as with the rider footpegs. Wipe ALL overspray from the exhaust and brake pedal.

- 14.4. **Brake pedal pivot bush:** lubricate with white grease or penetrating oil.
- 14.5. Clean and polish the motorcycle thoroughly before returning it to the customer. We recommended using our MUTT cleaning product range for the best finish possible. Cleaning the bike is also an opportunity to check for any other issues that may need attention. Remember always to use brake cleaner to clean brake discs after using any cleaning products.
- 14.6. Stamp and sign the service booklet once the service is complete. And you're done - great work!

FIRST SERVICE CHECKLIST



PREPARE THE MOTORCYCLE		
1.1	Place the motorcycle on the ramp	<input type="checkbox"/>
1.2	Start the motorcycle	<input type="checkbox"/>
CHECK LIGHTING SYSTEMS		
2.1	Check correct operation of the headlight and sidelight bulbs	<input type="checkbox"/>
2.2	Check correct operation of the main beam bulb	<input type="checkbox"/>
2.3	Check all indicators are operational and are flashing at the correct speed	<input type="checkbox"/>
2.4	Check that the rear day running light is operating continuously	<input type="checkbox"/>
2.5	Check brake light operation using the front brake lever then rear brake lever	<input type="checkbox"/>
2.6	Check correct operation of the licence plate light	<input type="checkbox"/>
CHECK ELECTRONIC HAND CONTROLS		
3.1	Check the main beam flash switch ensuring that the main beam goes on/off correctly	<input type="checkbox"/>
3.2	Switch the main beam on and check correct operation and display light illumination	<input type="checkbox"/>
3.3	Check correct operation of the horn	<input type="checkbox"/>
3.4	Check correct operation of the indicator switch	<input type="checkbox"/>
3.5	Check correct operation of the kill switch	<input type="checkbox"/>
3.6	Restart the bike and run for 3 minutes	<input type="checkbox"/>
TURN OFF THE MOTORCYCLE		
4.1	After running for 3 minutes switch off the motorcycle	<input type="checkbox"/>
DRAIN THE OIL		

5.1	Ensure that you have a suitable oil drain tub available and place under the sump	<input type="checkbox"/>
5.2	Remove and check the sump guard and fixings (if applicable) and remove the oil filler cap	<input type="checkbox"/>
5.3	Ensuring the oil drain tub is in place remove the oil drain plug. CAUTION - oil will be hot	<input type="checkbox"/>
5.4	Clean and check the threads and washer on the sump plug. Replace if damaged	<input type="checkbox"/>
5.5	Visually check the oil for particulates while draining	<input type="checkbox"/>
5.6	Leave the oil to drain for approximately three minutes	<input type="checkbox"/>
5.7	Once all oil is drained refit the sump plug and washer	<input type="checkbox"/>
5.8	Remove/clean excess oil on the motorcycle if required	<input type="checkbox"/>
REMOVE AND REPLACE OIL FILTER		
6.1	Ensure the oil drain tub is still in place	<input type="checkbox"/>
6.2	Remove the three oil filter housing nuts and remove the oil filter housing	<input type="checkbox"/>
6.3	Remove the oil filter by extracting from the housing	<input type="checkbox"/>
6.4	Fit the new oil filter into the filter housing	<input type="checkbox"/>
6.5	Refit the filter housing ensuring the correct fitting of the o-ring and paper gasket	<input type="checkbox"/>
REPLACE OIL		
7.1	Remove the oil filler cap and add 900MLs of 10w40 semi-synthetic motorcycle oil	<input type="checkbox"/>
7.2	Replace the oil filler cap and check for any leaks on the sump plug. Dispose of waste oil	<input type="checkbox"/>
7.3	Run the engine for approximately one minute to circulate the oil. Check for leaks.	<input type="checkbox"/>
7.4	Turn the motorcycle off and leave for three minutes. Check oil level and top up if required.	<input type="checkbox"/>
7.5	Refit the sump guard	<input type="checkbox"/>

FIRST SERVICE CHECKLIST



CLEAN THE AIR FILTER		
8.1	Remove the air box cover, remove the filter tube, and remove the filter. Check and clean.	<input type="checkbox"/>
8.2	Spray the air filter with air filter oil. Refit the filter, filter tube and cover	<input type="checkbox"/>
CHECK SPARK PLUG		
9.1	Remove the spark plug cap then remove and check the spark plug	<input type="checkbox"/>
9.2	Check the spark plug gap using a feeler gauge. If necessary replace the spark plug.	<input type="checkbox"/>
9.3	Refit the spark plug	<input type="checkbox"/>
9.4	Refit the spark plug cap	<input type="checkbox"/>
CHECK REAR WHEEL AND TYRE		
10.1	Elevate the rear wheel and while spinning the wheel check for any issues or damage	<input type="checkbox"/>
10.2	Check the rear tyre pressure and adjust if necessary	<input type="checkbox"/>
CHECK AND LUBRICATE CHAIN		
11.1	Check chain lubrication and tension	<input type="checkbox"/>
11.2	Slack off the rear wheel axle to release tension	<input type="checkbox"/>
11.3	Adjust the chain tensioners to achieve correct chain tension	<input type="checkbox"/>
11.4	Lubricate the chain as necessary	<input type="checkbox"/>
11.5	Turn the bike around on the ramp	<input type="checkbox"/>
CHECK FRONT WHEEL AND TYRE		
12.1	Elevate the front wheel and while spinning the wheel check for any issues or damage	<input type="checkbox"/>
12.2	Check the front tyre pressure and adjust if necessary	<input type="checkbox"/>
12.3	Lower and remove the jack	<input type="checkbox"/>

DIAGNOSTIC CHECK		
13.1	Plug the MUTT diagnostic scanner into the diagnostic port and run an error code test	<input type="checkbox"/>
FINAL CHECK AND CLEAN		
14.1	Lubricate rider footpegs with white grease or penetrating oil	<input type="checkbox"/>
14.2	Lubricate passenger footpegs with white grease or penetrating oil	<input type="checkbox"/>
14.3	Lubricate brake pedal pivot bush with white grease or penetrating oil	<input type="checkbox"/>
14.4	Clean and polish the motorcycle thoroughly	<input type="checkbox"/>
14.5	Record the service in the service book	<input type="checkbox"/>

SERVICE INFORMATION - SECOND & THIRD SERVICE



SUMMARY

1. PREPARE THE MOTORCYCLE
2. CHECK LIGHTING SYSTEMS
3. CHECK ELECTRONIC HAND CONTROLS
4. TURN OFF THE MOTORCYCLE
5. DRAIN OIL
6. INSPECT AND CLEAN OIL STRAINER
7. REMOVE AND REPLACE OIL FILTER
8. REPLACE OIL
9. CLEAN AIR FILTER
10. CHECK SPARK PLUG
11. CHECK BRAKE SYSTEM
12. CHECK AND ADJUST CLUTCH LEVER
13. CHECK REAR WHEEL AND TYRE
14. CHECK AND LUBRICATE CHAIN
15. CHECK FRONT WHEEL AND TYRE
16. CHECK HEADRACE BEARING
17. DIAGNOSTIC CHECK
18. FINAL CHECK & CLEAN

1. PREPARE THE MOTORCYCLE

- 1.1. Place the motorcycle on the ramp and secure safely.
- 1.2. Starting and warming the motorcycle is required to thin the engine oil to make it easier to drain. Start the bike in the usual manner; make sure the bike is in neutral, pull in the clutch and make sure the side stand is up.

2. CHECK LIGHTING SYSTEMS

- 2.1. With the bike running check the lighting systems:
- 2.2. **Headlight:** Check that the headlight and sidelight bulbs are running to their full capacity.
- 2.3. **Main beam:** Check that the main beam bulb is running at full capacity when switched on. Make sure that this doesn't affect any other headlight bulbs when switched on.
- 2.4. **Front and rear indicators:** Check that all four indicators are flashing at the correct speed (60-120 FPM) and that none of the bulbs is dim or defective.
- 2.5. **Rear running light:** Check that the rear day running light is continuously running without any intermittent flashes or flickers.
- 2.6. **Brake light and front and rear actuators:** Check the rear brake light operation by placing one hand over the rear light cluster and pulling the front brake lever. Do the same again for the rear using your foot to press down the brake pedal.
- 2.7. **Number plate light:** Place your fingers underneath the light cluster checking for the bright white light.
- 2.8. If any of the above are not working or defective, consult the troubleshooting advice.

3. CHECK ELECTRONIC HAND CONTROLS

- 3.1. With the bike still running, check the electronic hand controls:
- 3.2. **Main beam flash switch:** Check if the main beam switches on/off using the yellow button on the LHS switchgear. Do this a few times, releasing the switch to check that the main beam goes off correctly.
- 3.3. **Main beam switch:** Switch the main beam switch to the on position and check if the main beam is on. Check the main beam indicator light is on.

3.4. **Horn button:** Press the horn button on the LHS switchgear and ensure the horn is triggered and audible.

3.5. **Indicator switch and cancelling operation:** Confirm the indicators operate correctly by sliding the indicator switch from right to left. Click the indicator switch entirely in to check the cancelling operation.

3.6. **Kill switch operation:** Move the red kill switch to the 'off' position. Restart the bike to continue warming the oil.

4. TURN OFF THE MOTORCYCLE

4.1. After three minutes of run time, turn the motorcycle off. Be careful around the bike once it is warmed up, particularly around the engine and exhaust, as it will now be hot.

5. DRAIN OIL

- 5.1. Use a suitable drain tub with a capacity of 1L or above. If the bike has no sump guard, move to step 5.3
- 5.2. Remove the sump guard using a 10mm socket or spanner. Undo the three 10mm bolts securing the sump guard plate in place. Keep these bolts safe. Check the anti-vibration rubber grommets fitted to the sump guard plate. Replace if torn or perished or showing other signs of wear. Worn grommets can cause severe vibration and excessive wear on the sump guard mounting points if they are not replaced. Remove the oil filler cap for better oil flow whilst draining.
- 5.3. Ensure that your oil drain tub is directly under the engine. Using a 17mm socket with an extension secured on the head of the sump plug, remove the plug by turning counter-clockwise. The sump plug is located on the triangular plate underneath the engine, directly in the middle.
CAUTION - The oil will be extremely hot - remove with care. We recommend that you wear heat-resistant rubber gloves during the draining process.
- 5.4. Clean and check the threads and washer on the sump plug. If there is any damage to either the threads or the washer, replace the sump plug. Replace the sump plug washer after a maximum of two oil changes.

SERVICE INFORMATION - SECOND & THIRD SERVICE (Cont.)



- 5.5. Visually check the oil that is draining, looking for any obvious metal particulates. If metal particulates are present, then consult the troubleshooting advice.
- 5.6. Leave the oil to drain for approximately three minutes. Make sure the bike stays in the upright position throughout.
- 5.7. Once the oil has drained completely, refit the sump plug, ensuring that the washer is still fitted correctly. Tighten the sump plug clockwise to 25nm f. DO NOT overtighten the sump plug as there is a risk of stripping internal threads. Always make sure you pay attention to our torque specifications and observe the correct settings.
- 5.8. Clean any oil residue off of the engine using brake cleaner.
- 6. INSPECT AND CLEAN OIL STRAINER**
- 6.1. Unbolt the strainer cover - this is the metal triangle that the oil sump plug threads onto. Loosen the bolts and remove being careful not to damage the O-ring.
- 6.2. Remove the oil strainer and clean off any metal particulates by washing thoroughly with brake cleaner. If there are any unusual sized parts of metal, consult the troubleshooting advice.
- 6.3. Once clean, reinstall the strainer and bolt the cover back on, ensuring the O-ring is still in place. Torque the bolts to 25nm in a diagonal pattern.
- 7. REMOVE AND REPLACE OIL FILTER**
- 7.1. It is essential to change the oil filter during the first service. After the break-in process, metal particulates can gather in the oil filter. This is entirely normal and indicates that the engine has bedded in correctly.
- 7.2. Ensure that your drain tub is still underneath the motorcycle, then remove the three oil filter house nuts using a 10mm socket. Once removed, ease the oil filter housing cap away from the crankcase. Ensure you remove the cap carefully and try not to tear or damage the paper gasket or rubber O-ring. If you damage these items during this process, they will need replacement.
- 7.3. Remove the oil filter by extracting the filter out of the filter housing. Inspect the oil filter, looking for any obvious signs of

- damage. Remember that it is normal to find metal particles, especially during the first service.
- 7.4. Fit a new oil filter into the housing, ensuring that the oil filter is in the correct orientation.
- 7.5. Refit the oil filter housing, ensuring the correct fitting of the o-ring and paper gasket. Tighten the three 10mm nuts to 15nm.
- 8. REPLACE OIL**
- 8.1. Remove the oil filler cap. Place a funnel in the oil fill port. Measure out 900MLs of 10w40 semi-synthetic motorcycle oil. Place the oil into the engine slowly, being careful not to spill any oil.
- 8.2. After adding the required amount of oil, replace the oil filler cap and check for any leaks on the sump plug. Remove the drain tub and dispose of the oil accordingly.
- 8.3. When you are confident the oil level is correct and that there are no apparent leaks, run the engine for approximately one minute to circulate the oil and refill the oil filter with clean oil. Start the motorcycle in the usual manner. Remember to run the motorcycle outside or with a ventilation system in place. Be careful of the hot engine and exhaust whilst running. If you find any leaks during the running process, turn the motorcycle off immediately. Trace the source and consult troubleshooting advice.
- 8.4. After running for one minute, turn the motorcycle off and leave for three minutes to cool. Check the oil by looking at the oil level window making sure the bike is entirely upright. If the oil level is below the centre of the window, remove the oil filler cap and add more oil until the window is 3/4 filled. Refit the oil filler cap and clean off any residue.
- 8.5. Refit the sump guard by bolting the sump guard plate back on to the sump guard mount. Fit the rubber grommets. Tighten the three 10mm sump guard plate bolts up to 40nm.
- 9. CLEAN AIR FILTER**
- 9.1. Gain access to the airbox by removing the airbox side cover. Remove the three screws that hold the air filter tube in place. Slide the air filter tube out of the airbox. Remove the air filter from the tube. If you have access to an air compressor with an

- airline nozzle, use it to blow the air filter clean. If you do not have a compressor, clean thoroughly in warm water, then leave to dry.
- 9.2. Spray the air filter with air filter oil to the directions supplied by the manufacture of the product you are using. Refit the air filter by placing it back over the tube and slide it back into the airbox. Tighten the three screws to secure the air filter tube back into the airbox. Put the airbox cover back on, making sure that the rubber grommets are secured correctly.
- 10. CHECK SPARK PLUG**
- 10.1. Remove the spark plug cap. Use a 10mm spark plug socket to remove the spark plug, screwing counter-clockwise. Check the plug tip and side electrode. If they have turned entirely black, it can indicate a problem linked to the spark plug operation. If this is the case, see our troubleshooting advice for guidance.
- 10.2. Using a feeler gauge, check the spark plug gap, which should be 0.7-0.8mm. If you are not happy with the spark plug's condition, then replace with a new one.
- 10.3. Once you are happy with the spark plug's condition (or have replaced for new), you can refit. Using a 10mm spark plug socket tighten to 25nm. Once torqued to spec, give it a small nip with a ratchet to check that the crush washer is fully seated.
- 10.4. Push the spark plug cap onto the spark plug, making sure it makes a click.
- 10.5. CHECK BRAKE SYSTEM**
- 10.6. Visually inspect the brake system, checking the following:
- 10.7. Front and rear brake pad: visually check the condition and placement of the brake pads. Replace the pads if the wear indicator groove depth is 2mm or less, or if there is any sign of ridging on the brake pads
- 10.8. Calliper banjo fittings: check the area around the banjo on both front and rear callipers, in particular looking for any brake fluid leaks
- 10.9. Brake line routing and condition: check the front and rear brake lines for any excessive wear. Check thoroughly around the front mudguard bracket area as there can sometimes be excessive wear at this point if brake line routing is incorrect.

SERVICE INFORMATION - SECOND & THIRD SERVICE (Cont.)



10.10. Front and rear brake discs: check for any warp, severe pitting or uneven wear, checking if the rotors have any thin ridges or dips around the outer edge. Should any ridging feel abnormally deep or high, measure the discs for wear using a vernier. The minimum recommended face thickness is 3mm. Replace brake discs if they are below the recommended thickness, or there is abnormal visible damage.

10.11. Replace any parts where issues or damage are visible.

11. CHECK AND ADJUST CLUTCH LEVER

11.1. Check the free play of the clutch lever by removing the rubber cover on the clutch perch. Check the free play is at 20-25mm as recommended.

11.2. Adjust using the quick adjuster if necessary: crack off the lock ring and turn the adjuster counter-clockwise until you achieve the required amount of free play.

11.3. Slide the rubber boot back over the perch, ensuring that the lock ring is tight.

12. CHECK REAR WHEEL AND TYRE

12.1. Jack the rear of the motorcycle up on the ramp using the jack point. Spin the wheel looking for any nails or objects that have penetrated the tire wall. While spinning the wheel, check the tire tread and shape condition, looking out for any delamination, odd wear patterns, or sidewall bulges.

12.2. Check the rear tire pressure is at the required 2.2 bar/32 psi. If the pressure is too low, re-pressurise to the required amount. If the tire pressure has dropped dramatically, carry out a puncture test. Consult troubleshooting advice for guidance.

13. CHECK AND LUBRICATE CHAIN

13.1. With the wheel jacked in the air, check the tension and lubrication of the chain.

13.2. Slack off the rear wheel axle to release tension from the chain tensioner block.

13.3. Loosen the lock nut off the adjuster by a few centimetres. Rotate the adjusting bolt using the increment marks on the swingarm

as a guide. Ensuring the symmetrical movement of both left and right tensioners, check the chain tension. We recommend moving between 4-5mm. Take this measurement from the swingarm to the bottom of the chain. Tighten the adjuster lock nuts and rear axle nut. Fit the rubber axle nut cap securely.

13.4. To lubricate the chain, spin the wheel and spray the chain lube directly onto the chain. Remember to pay attention to the instructions of the product. Make a few passes then wipe the brake disc and tire clean.

13.5. Lower the jack and turn the bike around. Always make sure the bike is secured on the ramp when doing this. With the bike in the reverse position on the ramp, jack the front wheel into the air using the jacking point.

14. CHECK FRONT WHEEL AND TYRE

14.1. With the front wheel jacked up into the air, spin the wheel looking for any nails or objects that may have penetrated the tire wall. While spinning the wheel, check the tire tread and shape condition, looking out for any delamination, odd wear patterns, or sidewall bulges.

14.2. Check the rear tire pressure is at the required 2.2 bar/32 psi. If the pressure is too low, re-pressurise to the required amount. If the tire pressure has dropped dramatically, carry out a puncture test. Consult troubleshooting advice for guidance.

14.3. Lower and remove the jack from underneath the motorcycle.

15. CHECK HEADRACE BEARING

15.1. Whilst the front wheel is in the air, check for any looseness or play in the headrace bearings. Turn from side to side, checking for any notching or stiffness, then leave the wheel turned to your preferred direction until it is on the steering stop. Rock the wheel back and forth. If you can feel or hear a knock, then consult our troubleshooting advice guidance. If the bearings are in good condition, you should have a smooth and consistent side to side movement and no knocking from front to rear.

15.2. Lower and remove the jack from underneath the motorcycle.

16. DIAGNOSTIC CHECK

16.1. Remove the airbox side panel and find the diagnostics port. Remove the waterproof cover and plug in the MUTT diagnostic scanner. Follow the on-screen instructions and run an error code test. Consult our P codes troubleshooting booklet for guidance for any error codes shown. Refit the waterproof diagnostics port cover and refit the side panel if the test is clear.

17. FINAL CHECK & CLEAN

17.1. To complete the service, final lubrication and cleaning are required. Lubricate the following parts:

17.2. **Rider footpegs:** lubricate with white grease or penetrating oil. Wipe off ALL overspray from the exhaust and brake pedal.

17.3. **Passenger footpegs:** lubricate with white grease or penetrating oil as with the rider footpegs. Wipe ALL overspray from the exhaust and brake pedal.

17.4. **Brake pedal pivot bush:** lubricate with white grease or penetrating oil.

17.5. Clean and polish the motorcycle thoroughly before returning it to the customer. We recommend using our MUTT cleaning product range for the best finish possible. Cleaning the bike is also an opportunity to check for any other issues that may need attention. Remember always to use brake cleaner to clean brake discs after using any cleaning products.

17.6. Stamp and sign the service booklet once the service is complete. And you're done - great work!

SERVICE INFORMATION - FOURTH & FIFTH SERVICE



SUMMARY

1. PREPARE THE MOTORCYCLE
2. CHECK LIGHTING SYSTEMS
3. CHECK ELECTRONIC HAND CONTROLS
4. TURN OFF THE MOTORCYCLE
5. DRAIN OIL
6. INSPECT AND CLEAN OIL STRAINER
7. REMOVE AND REPLACE OIL FILTER
8. REPLACE OIL
9. CLEAN AIR FILTER
10. CHECK SPARK PLUG
11. CHECK BRAKE SYSTEM
12. CHECK AND ADJUST CLUTCH LEVER
13. CHECK AND LUBRICATE BRAKE HOSES
14. CHECK REAR WHEEL AND TYRE
15. CHECK AND LUBRICATE CHAIN
16. CHECK FRONT WHEEL AND TYRE
17. CHECK HEADRACE BEARING
18. DIAGNOSTIC CHECK
19. FINAL CHECK & CLEAN

1. PREPARE THE MOTORCYCLE

- 1.1. Place the motorcycle on the ramp and secure safely.
- 1.2. Starting and warming the motorcycle is required to thin the engine oil to make it easier to drain. Start the bike in the usual manner; make sure the bike is in neutral, pull in the clutch and make sure the side stand is up.

2. CHECK LIGHTING SYSTEMS

- 2.1. With the bike running check the lighting systems:
- 2.2. **Headlight:** Check that the headlight and sidelight bulbs are running to their full capacity.
- 2.3. **Main beam:** Check that the main beam bulb is running at full capacity when switched on. Make sure that this doesn't affect any other headlight bulbs when switched on.
- 2.4. **Front and rear indicators:** Check that all four indicators are flashing at the correct speed (60-120 FPM) and that none of the bulbs is dim or defective.
- 2.5. **Rear running light:** Check that the rear day running light is continuously running without any intermittent flashes or flickers.
- 2.6. **Brake light and front and rear actuators:** Check the rear brake light operation by placing one hand over the rear light cluster and pulling the front brake lever. Do the same again for the rear using your foot to press down the brake pedal.
- 2.7. **Number plate light:** Place your fingers underneath the light cluster checking for the bright white light.
- 2.8. If any of the above are not working or defective, consult the troubleshooting advice.

3. CHECK ELECTRONIC HAND CONTROLS

- 3.1. With the bike still running, check the electronic hand controls:
- 3.2. **Main beam flash switch:** Check if the main beam switches on/off using the yellow button on the LHS switchgear. Do this a few times, releasing the switch to check that the main beam goes off correctly.
- 3.3. **Main beam switch:** Switch the main beam switch to the on position and check if the main beam is on. Check the main beam indicator light is on.

3.4. **Horn button:** Press the horn button on the LHS switchgear and ensure the horn is triggered and audible.

3.5. **Indicator switch and cancelling operation:** Confirm the indicators operate correctly by sliding the indicator switch from right to left. Click the indicator switch entirely in to check the cancelling operation.

3.6. **Kill switch operation:** Move the red kill switch to the 'off' position. Restart the bike to continue warming the oil.

4. TURN OFF THE MOTORCYCLE

4.1. After three minutes of run time, turn the motorcycle off. Be careful around the bike once it is warmed up, particularly around the engine and exhaust, as it will now be hot.

5. DRAIN OIL

- 5.1. Use a suitable drain tub with a capacity of 1L or above. If the bike has no sump guard, move to step 5.3
- 5.2. Remove the sump guard using a 10mm socket or spanner. Undo the three 10mm bolts securing the sump guard plate in place. Keep these bolts safe. Check the anti-vibration rubber grommets fitted to the sump guard plate. Replace if torn or perished or showing other signs of wear. Worn grommets can cause severe vibration and excessive wear on the sump guard mounting points if they are not replaced. Remove the oil filler cap for better oil flow whilst draining.
- 5.3. Ensure that your oil drain tub is directly under the engine. Using a 17mm socket with an extension secured on the head of the sump plug, remove the plug by turning counter-clockwise. The sump plug is located on the triangular plate underneath the engine, directly in the middle.
CAUTION - The oil will be extremely hot - remove with care. We recommend that you wear heat-resistant rubber gloves during the draining process.
- 5.4. Clean and check the threads and washer on the sump plug. If there is any damage to either the threads or the washer, replace the sump plug. Replace the sump plug washer after a maximum of two oil changes.

SERVICE INFORMATION - FOURTH & FIFTH SERVICE (Cont.)



- 5.5. Visually check the oil that is draining, looking for any obvious metal particulates. If metal particulates are present, then consult the troubleshooting advice.
 - 5.6. Leave the oil to drain for approximately three minutes. Make sure the bike stays in the upright position throughout.
 - 5.7. Once the oil has drained completely, refit the sump plug, ensuring that the washer is still fitted correctly. Tighten the sump plug clockwise to 25nm f. DO NOT overtighten the sump plug as there is a risk of stripping internal threads. Always make sure you pay attention to our torque specifications and observe the correct settings.
 - 5.8. Clean any oil residue off of the engine using brake cleaner.
- 6. INSPECT AND CLEAN OIL STRAINER**
- 6.1. Unbolt the strainer cover - this is the metal triangle that the oil sump plug threads onto. Loosen the bolts and remove being careful not to damage the O-ring.
 - 6.2. Remove the oil strainer and clean off any metal particulates by washing thoroughly with brake cleaner. If there are any unusual sized parts of metal, consult the troubleshooting advice.
 - 6.3. Once clean, reinstall the strainer and bolt the cover back on, ensuring the O-ring is still in place. Torque the bolts to 25nm in a diagonal pattern.
- 7. REMOVE AND REPLACE OIL FILTER**
- 7.1. It is essential to change the oil filter during the first service. After the break-in process, metal particulates can gather in the oil filter. This is entirely normal and indicates that the engine has bedded in correctly.
 - 7.2. Ensure that your drain tub is still underneath the motorcycle, then remove the three oil filter house nuts using a 10mm socket. Once removed, ease the oil filter housing cap away from the crankcase. Ensure you remove the cap carefully and try not to tear or damage the paper gasket or rubber O-ring. If you damage these items during this process, they will need replacement.
 - 7.3. Remove the oil filter by extracting the filter out of the filter housing. Inspect the oil filter, looking for any obvious signs of

- damage. Remember that it is normal to find metal particles, especially during the first service.
- 7.4. Fit a new oil filter into the housing, ensuring that the oil filter is in the correct orientation.
 - 7.5. Refit the oil filter housing, ensuring the correct fitting of the o-ring and paper gasket. Tighten the three 10mm nuts to 15nm.
- 8. REPLACE OIL**
- 8.1. Remove the oil filler cap. Place a funnel in the oil fill port. Measure out 900MLs of 10w40 semi-synthetic motorcycle oil. Place the oil into the engine slowly, being careful not to spill any oil.
 - 8.2. After adding the required amount of oil, replace the oil filler cap and check for any leaks on the sump plug. Remove the drain tub and dispose of the oil accordingly.
 - 8.3. When you are confident the oil level is correct and that there are no apparent leaks, run the engine for approximately one minute to circulate the oil and refill the oil filter with clean oil. Start the motorcycle in the usual manner. Remember to run the motorcycle outside or with a ventilation system in place. Be careful of the hot engine and exhaust whilst running. If you find any leaks during the running process, turn the motorcycle off immediately. Trace the source and consult troubleshooting advice.
 - 8.4. After running for one minute, turn the motorcycle off and leave for three minutes to cool. Check the oil by looking at the oil level window making sure the bike is entirely upright. If the oil level is below the centre of the window, remove the oil filler cap and add more oil until the window is 3/4 filled. Refit the oil filler cap and clean off any residue.
 - 8.5. Refit the sump guard by bolting the sump guard plate back on to the sump guard mount. Fit the rubber grommets. Tighten the three 10mm sump guard plate bolts up to 40nm.
- 9. CLEAN AIR FILTER**
- 9.1. Gain access to the airbox by removing the airbox side cover. Remove the three screws that hold the air filter tube in place. Slide the air filter tube out of the airbox. Remove the air filter from the tube. If you have access to an air compressor with an

- airline nozzle, use it to blow the air filter clean. If you do not have a compressor, clean thoroughly in warm water, then leave to dry.
- 9.2. Spray the air filter with air filter oil to the directions supplied by the manufacture of the product you are using. Refit the air filter by placing it back over the tube and slide it back into the airbox. Tighten the three screws to secure the air filter tube back into the airbox. Put the airbox cover back on, making sure that the rubber grommets are secured correctly.
- 9.3. CHECK SPARK PLUG**
- 9.4. Remove the spark plug cap. Use a 10mm spark plug socket to remove the spark plug, screwing counter-clockwise. Check the plug tip and side electrode. If they have turned entirely black, it can indicate a problem linked to the spark plug operation. If this is the case, see our troubleshooting advice for guidance.
 - 9.5. Using a feeler gauge, check the spark plug gap, which should be 0.7-0.8mm. If you are not happy with the spark plug's condition, then replace with a new one.
 - 9.6. Once you are happy with the spark plug's condition (or have replaced for new), you can refit. Using a 10mm spark plug socket tighten to 25nm. Once torqued to spec, give it a small nip with a ratchet to check that the crush washer is fully seated.
 - 9.7. Push the spark plug cap onto the spark plug, making sure it makes a click.
- 9.8. CHECK BRAKE SYSTEM**
- 9.9. Visually inspect the brake system, checking the following:
 - 9.10. Front and rear brake pad: visually check the condition and placement of the brake pads. Replace the pads if the wear indicator groove depth is 2mm or less, or if there is any sign of ridging on the brake pads
 - 9.11. Calliper banjo fittings: check the area around the banjo on both front and rear callipers, in particular looking for any brake fluid leaks
 - 9.12. Brake line routing and condition: check the front and rear brake lines for any excessive wear. Check thoroughly around the front mudguard bracket area as there can sometimes be excessive wear at this point if brake line routing is incorrect.

SERVICE INFORMATION - FOURTH & FIFTH SERVICE (Cont.)



9.13. Front and rear brake discs: check for any warp, sever pitting or uneven wear, checking if the rotors have any thin ridges or dips around the outer edge. Should any ridging feel abnormally deep or high, measure the discs for wear using a vernier. The minimum recommended face thickness is 3mm. Replace brake discs if they are below the recommended thickness, or there is abnormal visible damage.

9.14. Replace any parts where issues or damage are visible.

10. CHECK AND ADJUST CLUTCH LEVER

10.1. Check the free play of the clutch lever by removing the rubber cover on the clutch perch. Check the free play is at 20-25mm as recommended.

10.2. Adjust using the quick adjuster if necessary: crack off the lock ring and turn the adjuster counter-clockwise until you achieve the required amount of free play.

10.3. Slide the rubber boot back over the perch, ensuring that the lock ring is tight.

11. CHECK AND LUBRICATE BRAKE HOSES

11.1. Introduce a small amount of synthetic grease at the lever end of any outer brake and gear cable runs. Thread the inner cable in to force the lubricant through the pipe. Wipe off any excess as the inner-wire emerges.

CAUTION: Ensure to use synthetic lubricants, **not** mineral oil or grease. Mineral products may degrade the outer brake hose or gear cable's plastic lining, impacting effective operation.

12. CHECK REAR WHEEL AND TYRE

12.1. Jack the rear of the motorcycle up on the ramp using the jack point. Spin the wheel looking for any nails or objects that have penetrated the tire wall. While spinning the wheel, check the tire tread and shape condition, looking out for any delamination, odd wear patterns, or sidewall bulges.

12.2. Check the rear tire pressure is at the required 2.2 bar/32 psi. If the pressure is too low, re-pressurise to the required amount. If the tire pressure has dropped dramatically, carry out a puncture test.

Consult troubleshooting advice for guidance.

13. CHECK AND LUBRICATE CHAIN

13.1. With the wheel jacked in the air, check the tension and lubrication of the chain.

13.2. Slack off the rear wheel axle to release tension from the chain tensioner block.

13.3. Loosen the lock nut off the adjuster by a few centimetres. Rotate the adjusting bolt using the increment marks on the swingarm as a guide. Ensuring the symmetrical movement of both left and right tensioners, check the chain tension. We recommend moving between 4-5mm. Take this measurement from the swingarm to the bottom of the chain. Tighten the adjuster lock nuts and rear axle nut. Fit the rubber axle nut cap securely.

13.4. To lubricate the chain, spin the wheel and spray the chain lube directly onto the chain. Remember to pay attention to the instructions of the product. Make a few passes then wipe the brake disc and tire clean.

13.5. Lower the jack and turn the bike around. Always make sure the bike is secured on the ramp when doing this. With the bike in the reverse position on the ramp, jack the front wheel into the air using the jacking point.

14. CHECK FRONT WHEEL AND TYRE

14.1. With the front wheel jacked up into the air, spin the wheel looking for any nails or objects that may have penetrated the tire wall. While spinning the wheel, check the tire tread and shape condition, looking out for any delamination, odd wear patterns, or sidewall bulges.

14.2. Check the rear tire pressure is at the required 2.2 bar/32 psi. If the pressure is too low, re-pressurise to the required amount. If the tire pressure has dropped dramatically, carry out a puncture test. Consult troubleshooting advice for guidance.

14.3. Lower and remove the jack from underneath the motorcycle.

15. CHECK HEADRACE BEARING

15.1. Whilst the front wheel is in the air, check for any looseness or play in the headrace bearings. Turn from side to side, checking for any notching or stiffness, then leave the wheel turned to your preferred direction until it is on the steering stop. Rock the wheel back and forth. If you can feel or hear a knock, then consult our troubleshooting advice guidance. If the bearings are in good condition, you should have a smooth and consistent side to side movement and no knocking from front to rear.

15.2. Lower and remove the jack from underneath the motorcycle.

16. DIAGNOSTIC CHECK

16.1. Remove the airbox side panel and find the diagnostics port. Remove the waterproof cover and plug in the MUTT diagnostic scanner. Follow the on-screen instructions and run an error code test. Consult our P codes troubleshooting booklet for guidance for any error codes shown. Refit the waterproof diagnostics port cover and refit the side panel if the test is clear.

17. FINAL CHECK & CLEAN

17.1. To complete the service, final lubrication and cleaning are required. Lubricate the following parts:

17.2. **Rider footpegs:** lubricate with white grease or penetrating oil. Wipe off ALL overspray from the exhaust and brake pedal.

17.3. **Passenger footpegs:** lubricate with white grease or penetrating oil as with the rider footpegs. Wipe ALL overspray from the exhaust and brake pedal.

17.4. **Brake pedal pivot bush:** lubricate with white grease or penetrating oil.

17.5. Clean and polish the motorcycle thoroughly before returning it to the customer. We recommended using our MUTT cleaning product range for the best finish possible. Cleaning the bike is also an opportunity to check for any other issues that may need attention. Remember always to use brake cleaner to clean brake discs after using any cleaning products.

17.6. Stamp and sign the service booklet once the service is complete. And you're done - great work!

SERVICE INFORMATION - SIXTH SERVICE ONWARDS



SUMMARY

1. PREPARE THE MOTORCYCLE
2. CHECK LIGHTING SYSTEMS
3. CHECK ELECTRONIC HAND CONTROLS
4. TURN OFF THE MOTORCYCLE
5. DRAIN OIL
6. INSPECT AND CLEAN OIL STRAINER
7. REMOVE AND REPLACE OIL FILTER
8. REPLACE OIL
9. CLEAN AIR FILTER
10. CHECK SPARK PLUG
11. CHECK BRAKE SYSTEM
12. CHECK AND ADJUST CLUTCH LEVER
13. CHECK AND LUBRICATE BRAKE HOSES
14. CHECK REAR WHEEL AND TYRE
15. CHECK SWINGARM ROLLER BEARINGS
16. CHECK AND LUBRICATE CHAIN
17. CHECK FRONT WHEEL AND TYRE
18. CHECK HEADRACE BEARING
19. CHECK TAPPET, VALVE CLEARANCES AND PERFORM COMPRESSION TEST
20. DIAGNOSTIC CHECK
21. FINAL CHECK & CLEAN

1. PREPARE THE MOTORCYCLE

- 1.1. Place the motorcycle on the ramp and secure safely.
- 1.2. Starting and warming the motorcycle is required to thin the engine oil to make it easier to drain. Start the bike in the usual manner; make sure the bike is in neutral, pull in the clutch and make sure the side stand is up.

2. CHECK LIGHTING SYSTEMS

- 2.1. With the bike running check the lighting systems:
- 2.2. **Headlight:** Check that the headlight and sidelight bulbs are running to their full capacity.
- 2.3. **Main beam:** Check that the main beam bulb is running at full capacity when switched on. Make sure that this doesn't affect any other headlight bulbs when switched on.
- 2.4. **Front and rear indicators:** Check that all four indicators are flashing at the correct speed (60-120 FPM) and that none of the bulbs is dim or defective.
- 2.5. **Rear running light:** Check that the rear day running light is continuously running without any intermittent flashes or flickers.
- 2.6. **Brake light and front and rear actuators:** Check the rear brake light operation by placing one hand over the rear light cluster and pulling the front brake lever. Do the same again for the rear using your foot to press down the brake pedal.
- 2.7. **Number plate light:** Place your fingers underneath the light cluster checking for the bright white light.
- 2.8. If any of the above are not working or defective, consult the troubleshooting advice.

3. CHECK ELECTRONIC HAND CONTROLS

- 3.1. With the bike still running, check the electronic hand controls:
- 3.2. **Main beam flash switch:** Check if the main beam switches on/off using the yellow button on the LHS switchgear. Do this a few times, releasing the switch to check that the main beam goes off correctly.
- 3.3. **Main beam switch:** Switch the main beam switch to the on position and check if the main beam is on. Check the main beam indicator light is on.

3.4. **Horn button:** Press the horn button on the LHS switchgear and ensure the horn is triggered and audible.

3.5. **Indicator switch and cancelling operation:** Confirm the indicators operate correctly by sliding the indicator switch from right to left. Click the indicator switch entirely in to check the cancelling operation.

3.6. **Kill switch operation:** Move the red kill switch to the 'off' position. Restart the bike to continue warming the oil.

4. TURN OFF THE MOTORCYCLE

4.1. After three minutes of run time, turn the motorcycle off. Be careful around the bike once it is warmed up, particularly around the engine and exhaust, as it will now be hot.

5. DRAIN OIL

- 5.1. Use a suitable drain tub with a capacity of 1L or above. If the bike has no sump guard, move to step 5.3
- 5.2. Remove the sump guard using a 10mm socket or spanner. Undo the three 10mm bolts securing the sump guard plate in place. Keep these bolts safe. Check the anti-vibration rubber grommets fitted to the sump guard plate. Replace if torn or perished or showing other signs of wear. Worn grommets can cause severe vibration and excessive wear on the sump guard mounting points if they are not replaced. Remove the oil filler cap for better oil flow whilst draining.
- 5.3. Ensure that your oil drain tub is directly under the engine. Using a 17mm socket with an extension secured on the head of the sump plug, remove the plug by turning counter-clockwise. The sump plug is located on the triangular plate underneath the engine, directly in the middle.
CAUTION - The oil will be extremely hot - remove with care. We recommend that you wear heat-resistant rubber gloves during the draining process.
- 5.4. Clean and check the threads and washer on the sump plug. If there is any damage to either the threads or the washer, replace the sump plug. Replace the sump plug washer after a maximum of two oil changes.

SERVICE INFORMATION - SIXTH SERVICE ONWARDS (Cont.)



- 5.5. Visually check the oil that is draining, looking for any obvious metal particulates. If metal particulates are present, then consult the troubleshooting advice.
- 5.6. Leave the oil to drain for approximately three minutes. Make sure the bike stays in the upright position throughout.
- 5.7. Once the oil has drained completely, refit the sump plug, ensuring that the washer is still fitted correctly. Tighten the sump plug clockwise to 25nm f. DO NOT overtighten the sump plug as there is a risk of stripping internal threads. Always make sure you pay attention to our torque specifications and observe the correct settings.
- 5.8. Clean any oil residue off of the engine using brake cleaner.
- 6. INSPECT AND CLEAN OIL STRAINER**
- 6.1. Unbolt the strainer cover - this is the metal triangle that the oil sump plug threads onto. Loosen the bolts and remove being careful not to damage the O-ring.
- 6.2. Remove the oil strainer and clean off any metal particulates by washing thoroughly with brake cleaner. If there are any unusual sized parts of metal, consult the troubleshooting advice.
- 6.3. Once clean, reinstall the strainer and bolt the cover back on, ensuring the O-ring is still in place. Torque the bolts to 25nm in a diagonal pattern.
- 7. REMOVE AND REPLACE OIL FILTER**
- 7.1. It is essential to change the oil filter during the first service. After the break-in process, metal particulates can gather in the oil filter. This is entirely normal and indicates that the engine has bedded in correctly.
- 7.2. Ensure that your drain tub is still underneath the motorcycle, then remove the three oil filter house nuts using a 10mm socket. Once removed, ease the oil filter housing cap away from the crankcase. Ensure you remove the cap carefully and try not to tear or damage the paper gasket or rubber O-ring. If you damage these items during this process, they will need replacement.
- 7.3. Remove the oil filter by extracting the filter out of the filter housing. Inspect the oil filter, looking for any obvious signs of

- damage. Remember that it is normal to find metal particles, especially during the first service.
- 7.4. Fit a new oil filter into the housing, ensuring that the oil filter is in the correct orientation.
- 7.5. Refit the oil filter housing, ensuring the correct fitting of the o-ring and paper gasket. Tighten the three 10mm nuts to 15nm.
- 8. REPLACE OIL**
- 8.1. Remove the oil filler cap. Place a funnel in the oil fill port. Measure out 900MLs of 10w40 semi-synthetic motorcycle oil. Place the oil into the engine slowly, being careful not to spill any oil.
- 8.2. After adding the required amount of oil, replace the oil filler cap and check for any leaks on the sump plug. Remove the drain tub and dispose of the oil accordingly.
- 8.3. When you are confident the oil level is correct and that there are no apparent leaks, run the engine for approximately one minute to circulate the oil and refill the oil filter with clean oil. Start the motorcycle in the usual manner. Remember to run the motorcycle outside or with a ventilation system in place. Be careful of the hot engine and exhaust whilst running. If you find any leaks during the running process, turn the motorcycle off immediately. Trace the source and consult troubleshooting advice.
- 8.4. After running for one minute, turn the motorcycle off and leave for three minutes to cool. Check the oil by looking at the oil level window making sure the bike is entirely upright. If the oil level is below the centre of the window, remove the oil filler cap and add more oil until the window is 3/4 filled. Refit the oil filler cap and clean off any residue.
- 8.5. Refit the sump guard by bolting the sump guard plate back on to the sump guard mount. Fit the rubber grommets. Tighten the three 10mm sump guard plate bolts up to 40nm.
- 9. CLEAN AIR FILTER**
- 9.1. Gain access to the airbox by removing the airbox side cover. Remove the three screws that hold the air filter tube in place. Slide the air filter tube out of the airbox. Remove the air filter from the tube. If you have access to an air compressor with an

- airline nozzle, use it to blow the air filter clean. If you do not have a compressor, clean thoroughly in warm water, then leave to dry.
- 9.2. Spray the air filter with air filter oil to the directions supplied by the manufacture of the product you are using. Refit the air filter by placing it back over the tube and slide it back into the airbox. Tighten the three screws to secure the air filter tube back into the airbox. Put the airbox cover back on, making sure that the rubber grommets are secured correctly.
- 9.3. CHECK SPARK PLUG**
- 9.4. Remove the spark plug cap. Use a 10mm spark plug socket to remove the spark plug, screwing counter-clockwise. Check the plug tip and side electrode. If they have turned entirely black, it can indicate a problem linked to the spark plug operation. If this is the case, see our troubleshooting advice for guidance.
- 9.5. Using a feeler gauge, check the spark plug gap, which should be 0.7-0.8mm. If you are not happy with the spark plug's condition, then replace with a new one.
- 9.6. Once you are happy with the spark plug's condition (or have replaced for new), you can refit. Using a 10mm spark plug socket tighten to 25nm. Once torqued to spec, give it a small nip with a ratchet to check that the crush washer is fully seated.
- 9.7. Push the spark plug cap onto the spark plug, making sure it makes a click.
- 9.8. CHECK BRAKE SYSTEM**
- 9.9. Visually inspect the brake system, checking the following:
- 9.10. Front and rear brake pad: visually check the condition and placement of the brake pads. Replace the pads if the wear indicator groove depth is 2mm or less, or if there is any sign of ridging on the brake pads
- 9.11. Calliper banjo fittings: check the area around the banjo on both front and rear callipers, in particular looking for any brake fluid leaks
- 9.12. Brake line routing and condition: check the front and rear brake lines for any excessive wear. Check thoroughly around the front mudguard bracket area as there can sometimes be excessive wear at this point if brake line routing is incorrect.

9.13. Front and rear brake discs: check for any warp, severe pitting or uneven wear, checking if the rotors have any thin ridges or dips around the outer edge. Should any ridging feel abnormally deep or high, measure the discs for wear using a vernier. The minimum recommended face thickness is 3mm. Replace brake discs if they are below the recommended thickness, or there is abnormal visible damage.

9.14. Replace any parts where issues or damage are visible.

10. CHECK AND ADJUST CLUTCH LEVER

10.1. Check the free play of the clutch lever by removing the rubber cover on the clutch perch. Check the free play is at 20-25mm as recommended.

10.2. Adjust using the quick adjuster if necessary: crack off the lock ring and turn the adjuster counter-clockwise until you achieve the required amount of free play.

10.3. Slide the rubber boot back over the perch, ensuring that the lock ring is tight.

11. CHECK AND LUBRICATE BRAKE HOSES

11.1. Introduce a small amount of synthetic grease at the lever end of any outer brake and gear cable runs. Thread the inner cable in to force the lubricant through the pipe. Wipe off any excess as the inner-wire emerges.

CAUTION: Ensure to use synthetic lubricants, **not** mineral oil or grease. Mineral products may degrade the outer brake hose or gear cable's plastic lining, impacting effective operation.

12. CHECK REAR WHEEL AND TYRE

12.1. Jack the rear of the motorcycle up on the ramp using the jack point. Spin the wheel looking for any nails or objects that have penetrated the tire wall. While spinning the wheel, check the tire tread and shape condition, looking out for any delamination, odd wear patterns, or sidewall bulges.

12.2. Check the rear tire pressure is at the required 2.2 bar/32 psi. If the pressure is too low, re-pressurise to the required amount. If the tire pressure has dropped dramatically, carry out a puncture test.

Consult troubleshooting advice for guidance.

13. CHECK SWINGARM ROLLER BEARINGS

13.1. Jack the rear of the motorcycle up enough that the rear wheel has cleared the ramp surface. Rock the swingarm. Follow our troubleshooting advice if you feel any free play or excessive movement.

13.2. Test the lateral play by gently lifting the rear wheel using a pry bar. If you feel excessive movement or free play this can be a sign of failed swingarm bearings or failed shock bushings. Check and replace the bearings or bushings as required.

14. CHECK AND LUBRICATE CHAIN

14.1. With the wheel jacked in the air, check the tension and lubrication of the chain.

14.2. Slack off the rear wheel axle to release tension from the chain tensioner block.

14.3. Loosen the lock nut off the adjuster by a few centimetres. Rotate the adjusting bolt using the increment marks on the swingarm as a guide. Ensuring the symmetrical movement of both left and right tensioners, check the chain tension. We recommend moving between 4-5mm. Take this measurement from the swingarm to the bottom of the chain. Tighten the adjuster lock nuts and rear axle nut. Fit the rubber axle nut cap securely.

14.4. To lubricate the chain, spin the wheel and spray the chain lube directly onto the chain. Remember to pay attention to the instructions of the product. Make a few passes then wipe the brake disc and tire clean.

14.5. Lower the jack and turn the bike around. Always make sure the bike is secured on the ramp when doing this. With the bike in the reverse position on the ramp, jack the front wheel into the air using the jacking point.

15. CHECK FRONT WHEEL AND TYRE

15.1. With the front wheel jacked up into the air, spin the wheel looking for any nails or objects that may have penetrated the tire wall. While spinning the wheel, check the tire tread and shape

condition, looking out for any delamination, odd wear patterns, or sidewall bulges.

15.2. Check the rear tire pressure is at the required 2.2 bar/32 psi. If the pressure is too low, re-pressurise to the required amount. If the tire pressure has dropped dramatically, carry out a puncture test. Consult troubleshooting advice for guidance.

15.3. Lower and remove the jack from underneath the motorcycle.

16. CHECK HEADRACE BEARING

16.1. Whilst the front wheel is in the air, check for any looseness or play in the headrace bearings. Turn from side to side, checking for any notching or stiffness, then leave the wheel turned to your preferred direction until it is on the steering stop. Rock the wheel back and forth. If you can feel or hear a knock, then consult our troubleshooting advice guidance. If the bearings are in good condition, you should have a smooth and consistent side to side movement and no knocking from front to rear.

16.2. Lower and remove the jack from underneath the motorcycle.

17. CHECK TAPPET, VALVE CLEARANCES AND PERFORM COMPRESSION TEST

CAUTION: PLEASE ENSURE YOU HAVE THE CORRECT TOOLS AND KNOWLEDGE BEFORE CARRYING OUT THIS PROCEDURE.

17.1. Excessive valve clearance may result in excessive valve noise, valve damage and reduced power. Firstly remove the spark plug, and valve inspection caps. Then, remove the generator cover cap and rotate the generator rotor counter-clockwise to align the line on the rotor with the centre arrow mark of the hole on the crankcase to set the piston Top Dead Centre (TDC) on the compression stroke. Check by looking inside the spark plug hole to see if the piston is in the TDC position.

17.2. **IMPORTANT:** Check valve clearance only when the engine is cold. Check and adjust both the intake and exhaust valve when the piston is at TDC of the compression stroke.

17.3. To check valve clearances, remove the tappet cover inspection ports. Make sure that both valves are loose and are not under

SERVICE INFORMATION - SIXTH SERVICE ONWARDS (Cont.)



tension from the camshaft. Then, insert the thickness feeler gauges to the valve stem end and the adjusting screw on the rocker arm. If the clearance is off the specification, bring it into the specified range, shown below.

ENGINE	IN	EX
125cc	0.08 - 0.13mm	0.08 - 0.13mm
250cc	0.05mm - 0.07mm	0.09mm - 0.11mm

17.4. Perform a compression test to determine whether the engine is generating adequate pressure needed for combustion. Fit the compression tester to a cylinder as per the instructions of your tool. We recommend using a dab of grease or Vaseline to lubricate the threads and O-ring on the adapter to help prolong O-ring life and give a more precise reading. Hold the throttle completely open then using the starter button, turn the motorcycle over until the needle stops climbing the gauge, usually after 3-4 rotations. Record the result and compare to the specifications provided.

18. DIAGNOSTIC CHECK

18.1. Remove the airbox side panel and find the diagnostics port. Remove the waterproof cover and plug in the MUTT diagnostic scanner. Follow the on-screen instructions and run an error code test. Consult our P codes troubleshooting booklet for guidance for any error codes shown. Refit the waterproof diagnostics port cover and refit the side panel if the test is clear.

19. FINAL CHECK & CLEAN

- 19.1. To complete the service, final lubrication and cleaning are required. Lubricate the following parts:
- 19.2. **Rider footpegs:** lubricate with white grease or penetrating oil. Wipe off ALL overspray from the exhaust and brake pedal.
- 19.3. **Passenger footpegs:** lubricate with white grease or penetrating oil as with the rider footpegs. Wipe ALL overspray from the exhaust

and brake pedal.

- 19.4. **Brake pedal pivot bush:** lubricate with white grease or penetrating oil.
- 19.5. Clean and polish the motorcycle thoroughly before returning it to the customer. We recommended using our MUTT cleaning product range for the best finish possible. Cleaning the bike is also an opportunity to check for any other issues that may need attention. Remember always to use brake cleaner to clean brake discs after using any cleaning products.
- 19.6. Stamp and sign the service booklet once the service is complete. And you're done - great work!

TROUBLESHOOTING - GENERAL INFORMATION

General maintenance tools and instruments

The following tools are required for diagnosis and checking purposes.

- Multimeter
- Fuel pressure gauge
- MUTT diagnostic scanner

Replacement parts

Always use MUTT specific parts for any maintenance or replacement; otherwise, we cannot guarantee the correct operation of the EFI system.

General EFI system maintenance information

Only a suitably qualified and trained technician should undertake disassembly or removal of EFI system components.

During maintenance, ensure gentle handling of electronic components (the ECU, sensors, etc.) to prevent damage.

Disconnecting and connecting wiring plugs or the ECU while the engine is on or running can cause significant, irreparable damage to components. Always ensure that the bike is off before disconnecting or reconnecting electronic components.

Even while the engine is off, fuel in the system is still pressurised. Due to fuel being under high pressure in the fuel pipe, do not undertake the fuel pipe's disassembly during routine maintenance. If work on the fuel system is necessary, ensure pressure release before any fuel pipe disassembly.

To release fuel pressure, remove the fuel pump relay (or remove the fuel pump plug), start the engine and idle until it stops. After completing maintenance, to bring the fuel back to the correct pressure, switch the ignition on and leave for a short while. Only suitably qualified, trained technicians should conduct disassembly and replacement of the fuel pipe in a well-ventilated area, away from any equipment that may ignite fuel or fuel vapour.

Never operate the fuel pump without fuel, as it will lead to significant damage, including burnout. Always ensure correct connection of positive and negative electrical connections to the fuel pump. Failure to do so will lead to damage.

When removing the fuel pump from the fuel tank, first disconnect the wiring plug to ensure that electrical current cannot ignite fuel.

When inspecting the ignition system, spark plug testing should be conducted **only** if necessary and should be as short as possible. Do not open the throttle valve during testing; otherwise, a large amount of unburned fuel will enter exhaust pipe, damaging the catalytic converter.

If a spark test is required, disconnect the wiring plug for the fuel injector.

Manual regulation of idling is unnecessary, as the EFI system manages this. Note the limit screw for the throttle is set during manufacture, and therefore should not be adjusted in any way.

Ensure complete disconnection of the battery and the ECU before undertaking any welding work on the bike.

ELECTRONIC FUEL INJECTION (EFI) SYSTEM

Temperature sensor

The temperature sensor provides the engine with a temperature signal to ensure correct ignition angle and fuel injection quantity during start-up, idling and normal operation. When the engine temperature is low, the sensor ensures that the fuel quantity increases.

Oxygen sensor

The oxygen sensor sends measurements of the amount of oxygen flowing into the intake. The sensor outputs a voltage to the ECU, which adjusts the fuel-to-air ratio for correct performance. Voltage decreases when oxygen concentration is high and increases when oxygen concentration is low.

Rotation speed sensor (trigger coil, crank position)

The rotation speed sensor generates and sends an ignition signal to the ECU; according to the signal, the ECU calculates and determines injection and ignition time. There is an installation clearance requirement of between 0.4 to 0.9 mm.

Fuel pump assembly

The fuel pump assembly, which sits in the fuel tank, consists of the fuel pump, the pressure regulating valve, and the fuel pump support. By controlling the power supply, the ECU manages the fuel pump action to provide the fuel injector with fuel at high pressure. The pressure regulating valve regulates the fuel pressure from the pump at 2.5MPa, ensuring delivery to the fuel injector at a stable pressure.

Fuel injector

The fuel injector delivers fuel from the fuel pump via gravity and injects pressurized fuel into the air inlet pipe.

The ECU controls the pressure piston, managing delivery of the necessary amount of fuel at optimal timing during engine operation.

TROUBLESHOOTING - FAULT DIAGNOSIS - GENERAL

ENGINE START FAILURE

Before checking the EFI system, first check for other common issues that may prevent engine start:

- Check if the fuel tank is filled with fuel (but is not overfilled)
- Check that the battery is properly charged
- Check if the main fuse (behind right side panel next to the battery) needs replacing
- Check that the starter works when you press the starter button (spark test)

If excessive fuel has been added to the fuel tank, follow the steps outlined below. Ensure the bike is in neutral before conducting.

- Switch on the ignition and allow the fuel pump to prime.
- Keep the throttle fully opened and press the electric start simultaneously for 5 seconds to remove excess fuel.

If all of the above checks show no issues, investigation of the EFI system is required. Engine start failure is generally caused by faults with the following parts:

Rotation speed sensor	Fuel pump assembly	Fuel injector	Ignition coil
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Failure of the following parts will result in the engine operating using standard ECU preset operating values:

Air temperature (pressure) sensor	Throttle position sensor	Cylinder wall temperature sensor	Oxygen sensor
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Undertake initial diagnosis using the fault indicator light or a MUTT diagnostic scanner. Check fault codes against the fault code table, and perform the required test to check parts, following the disassembly and testing requirements outlined.

If after checking the fault indicator light or diagnostic scanner, no fault can be identified, conduct a fault diagnosis using the steps in the table.

Fault	Possible Cause	Check	Fix
Engine does not start, or starts and immediately cuts out - no fuel from fuel pump.	No fuel	Open ignition switch and check fuel level gauge, or check the fuel level in the tank	Refuel
	Faulty/damaged fuel pump	Check fuel pump	Replace fuel pump
	No voltage to fuel pump	Check fuse and power relay	Replace damaged parts
	Poor contact on fuel pump plug	Check the fuel pump plug contact	Ensure correct contact
Engine does not start, or starts and immediately cuts out - fuel pump and ignition are working	Low fuel pressure and low ignition voltage caused by low battery charge	Use a multimeter to measure the battery voltage	Charge or replace battery
	Excess carbon build up or incorrect clearance of the spark plug	Remove and check spark plug for carbon deposits, and check clearance	Clean spark plug and adjust to correct clearance
	Fuel leak causes low fuel pressure	Check fuel pipe for leaks	Replace the fuel pipe, or tighten the fuel pipe clamp
Unstable idling	Low fuel pressure	Check fuel pressure using fuel pressure gauge connected between the fuel pump and the fuel injector	Check for issues that may be causing low fuel pressure
	Air leak at air idle sensor/motor	Spray with leak test liquid while the engine is running	Check and tighten the step motor
	Leak at valve and flange assembly	Spray with leak test liquid while the engine is running	Check and repair assembly
Excessively high idling	Step motor is stuck	Check stepping motor for debris or fault	Remove debris or replace
Insufficient power	Low fuel pressure	Check fuel pressure using fuel pressure gauge connected between the fuel pump and the fuel injector	Check for issues that may be causing low fuel pressure

TROUBLESHOOTING - FAULT DIAGNOSIS - FAULT CODES



Fault/Flash Code	Part Name	Part Code	Fault Description	Check	Fault Indication	Parameters	Verification Test
P0107	MANIFOLD ABSOLUTE PRESSURE SENSOR		Sensor voltage input low	Check the voltage input	Voltage is lower than expected		30 seconds after ignition on
P0108	MANIFOLD ABSOLUTE PRESSURE SENSOR		Sensor voltage input high	Check the voltage input	Voltage is higher than expected		30 seconds after ignition on
P0112	AIR TEMPERATURE (PRESSURE) SENSOR	MPT-0341	Sensor voltage input low	Check the voltage input	Voltage is lower than expected	4.75V ~ 5.25V	30 seconds after ignition on
P0113	AIR TEMPERATURE (PRESSURE) SENSOR	MPT-0341	Sensor voltage input high	Check the voltage input	Voltage is higher than expected	4.75V ~ 5.25V	30 seconds after ignition on
P0117	CYLINDER WALL TEMPERATURE SENSOR	MPT-0181	Sensor voltage input low	Check the voltage input	Voltage is lower than expected		30 seconds after ignition on
P0118	CYLINDER WALL TEMPERATURE SENSOR	MPT-0181	Sensor voltage input high	Check the voltage input	Voltage is higher than expected		30 seconds after ignition on
P0122	THROTTLE POSITION SENSOR	MPT-0342	Sensor voltage input low	Check the voltage input	Voltage is lower than expected	4.75V ~ 5.25V	30 seconds after ignition on
P0123	THROTTLE POSITION SENSOR	MPT-0342	Sensor voltage input high	Check the voltage input	Voltage is higher than expected	4.75V ~ 5.25V	30 seconds after ignition on
P0131	OXYGEN SENSOR	MPT-0180	Sensor voltage input low	Check the voltage input	Voltage is lower than expected	12V ~ 16V	Idle for 5 mins
P0132	OXYGEN SENSOR	MPT-0180	Sensor voltage input high	Check the voltage input	Voltage is higher than expected	12V ~ 16V	Idle for 5 mins
P0031	OXYGEN SENSOR (HEATER)	MPT-0180	Sensor voltage input low	Check the voltage input	Voltage is lower than expected	12V ~ 16V	30 seconds after ignition on
P0032	OXYGEN SENSOR (HEATER)	MPT-0180	Sensor voltage input high	Check the voltage input	Voltage is higher than expected	12V ~ 16V	Idle for 5 mins
P0201	FUEL INJECTOR	MPT-0480	Fuel injector circuit open	Measure the resistance between the fuel injector plug pins	Incorrect resistance	11.4Ω ~ 12.6Ω	Press the start button for 5 seconds
P0232	FUEL PUMP RELAY	MPT-0307	High voltage input	Check the voltage input	Voltage is higher than expected	approx. 12V	30 seconds after ignition on
P0337	CRANKSHAFT POSITION SENSOR		Low voltage output	Check the voltage output	Voltage is lower than expected		Press the start button for 5 seconds
P0351	IGNITION COIL	MPT-0297 / MPT-0296	Incomplete circuit				30 seconds after ignition on
P0505	AIR IDLE SENSOR (IDLE STEP MOTOR)	MPT-0343	Idle control fault				Idle for 5 mins

TROUBLESHOOTING - FAULT DIAGNOSIS - FAULT CODES



Fault Code	Part Name	Part Code	Fault Description	Check	Fault Indication	Parameters	Verification Test
P0107	MANIFOLD ABSOLUTE PRESSURE SENSOR		Sensor voltage input low	Check the voltage input	Voltage is lower than expected		30 seconds after ignition on
P0108	MANIFOLD ABSOLUTE PRESSURE SENSOR		Sensor voltage input high	Check the voltage input	Voltage is higher than expected		30 seconds after ignition on
P0112	AIR TEMPERATURE (PRESSURE) SENSOR	MPT-0341	Sensor voltage input low	Check the voltage input	Voltage is lower than expected	4.75V ~ 5.25V	30 seconds after ignition on
P0113	AIR TEMPERATURE (PRESSURE) SENSOR	MPT-0341	Sensor voltage input high	Check the voltage input	Voltage is higher than expected	4.75V ~ 5.25V	30 seconds after ignition on
P0117	CYLINDER WALL TEMPERATURE SENSOR	MPT-0181	Sensor voltage input low	Check the voltage input	Voltage is lower than expected		30 seconds after ignition on
P0118	CYLINDER WALL TEMPERATURE SENSOR	MPT-0181	Sensor voltage input high	Check the voltage input	Voltage is higher than expected		30 seconds after ignition on
P0122	THROTTLE POSITION SENSOR	MPT-0342	Sensor voltage input low	Check the voltage input	Voltage is lower than expected	4.75V ~ 5.25V	30 seconds after ignition on
P0123	THROTTLE POSITION SENSOR	MPT-0342	Sensor voltage input high	Check the voltage input	Voltage is higher than expected	4.75V ~ 5.25V	30 seconds after ignition on
P0131	OXYGEN SENSOR	MPT-0180	Sensor voltage input low	Check the voltage input	Voltage is lower than expected	12V ~ 16V	Idle for 5 mins
P0132	OXYGEN SENSOR	MPT-0180	Sensor voltage input high	Check the voltage input	Voltage is higher than expected	12V ~ 16V	Idle for 5 mins
P0031	OXYGEN SENSOR (HEATER)	MPT-0180	Sensor voltage input low	Check the voltage input	Voltage is lower than expected	12V ~ 16V	30 seconds after ignition on
P0032	OXYGEN SENSOR (HEATER)	MPT-0180	Sensor voltage input high	Check the voltage input	Voltage is higher than expected	12V ~ 16V	Idle for 5 mins
P0261	FUEL INJECTOR	MPT-0480	Fuel injector circuit open	Measure the resistance between the fuel injector plug pins	Incorrect resistance	12.6Ω ~ 11.4Ω	Press the start button for 5 seconds
P0262	FUEL INJECTOR	MPT-0480	Fuel injector circuit high	Measure the resistance between the fuel injector plug pins	Incorrect resistance	12.6Ω ~ 11.4Ω	Press the start button for 5 seconds
P0231	FUEL PUMP RELAY	MPT-0307	Low voltage input	Check the voltage input	Voltage is lower than expected	approx. 12V	30 seconds after ignition on
P0232	FUEL PUMP RELAY	MPT-0307	High voltage input	Check the voltage input	Voltage is higher than expected	approx. 12V	30 seconds after ignition on
P0337	CRANKSHAFT POSITION SENSOR		Low voltage output	Check the voltage output	Voltage is lower than expected		Press the start button for 5 seconds
P2300	IGNITION COIL	MPT-0297 / MPT-0296	Low voltage input	Check the voltage input	Voltage is lower than expected		
P2301	IGNITION COIL	MPT-0297 / MPT-0296	High voltage input	Check the voltage input	Voltage is higher than expected		
P0351	IGNITION COIL	MPT-0297 / MPT-0296	Incomplete circuit				30 seconds after ignition on
P0505	AIR IDLE SENSOR (IDLE STEP MOTOR)	MPT-0343	Idle control fault	Engine speed	Engine speed +500rpm higher than expected		Idle for 5 mins

TROUBLESHOOTING - TESTING

DIAGNOSIS AND TROUBLESHOOTING WITH A FAULT CODE

Faults are generally caused by one of four main problems:

- Plugs not plugged in correctly
- Damage to connecting wires
- Poor contact from corroded plugs.
- Individual components are damaged or non-operational.
- The ECU is damaged or operating incorrectly.

The main methods for addressing these faults are:

- Check all plugs and wires for loose connections, damage, or incorrect fitting.
- Check individual components for faults.
- Check the ECU is operating correctly.

Before undertaking any of individual component checks, it is essential to ensure the primary wiring system is fitted correctly, is not damaged, and operates normally.

For individual component checks, refer to the disassembly, testing and reassembly information on the pages following

OXYGEN SENSOR
Disassembly
<ul style="list-style-type: none">• Disconnect the wiring plug, and remove the oxygen sensor
Testing
<p>Check the resistance of the oxygen sensor heating rod:</p> <ul style="list-style-type: none">• Ensure the ignition is off and unplug the oxygen sensor• Measure the resistance between pin C and D of the oxygen sensor• Resistance should be between 8Ω and 15Ω at 23°C <p>If the heating rod resistance of the oxygen sensor is correct, proceed to check the heating voltage. If not, replace the oxygen sensor.</p> <p>Check the heating voltage of the oxygen sensor:</p> <ul style="list-style-type: none">• Ensure the ignition is off and unplug the oxygen sensor• Start the engine and keep the bike idling.• After waiting for 20 seconds, use a multimeter to measure the voltage of the pins on the wiring loom• The voltage should read between 12V to 16V <p>If the heating voltage is correct, check the output signal voltage. If not, check for wiring loom damage and if necessary, replace.</p> <p>Check output signal voltage of the oxygen sensor:</p> <ul style="list-style-type: none">• Ensure the ignition is off and the oxygen sensor plug is connected• Start the engine and keep the bike idling, heating the engine until the cylinder head reaches a temperature of around 60°C• Switch your multimeter to DC voltage; contact black and red probes with pin A and B of the oxygen sensor separately• Check the change in voltage - the output voltage should change between 0 and 1V. <p>If the heating voltage is correct, check for wiring loom damage and if necessary, replace. If the reading is incorrect, then replace the oxygen sensor.</p>

OXYGEN SENSOR
Assembly
<ul style="list-style-type: none">• Screw the oxygen sensor into the threaded hole• Torque to 13Nm - 17Nm• Reconnect the wiring plug <p>NOTES: The bend angle of the wires should not be less than R20. Do not disassemble or assemble the sensor after connecting to the main loom</p>

TROUBLESHOOTING - TESTING

AIR TEMPERATURE (PRESSURE) SENSOR	
Disassembly	
<ul style="list-style-type: none"> Disconnect the wiring plug, and remove the air temperature (pressure) sensor. 	
Testing	
<p>Check the input voltage of the air temperature pressure sensor:</p> <ul style="list-style-type: none"> Ensure the ignition is off and unplug the sensor Turn on the ignition, but without starting the engine. Measure the voltage at the plug pins Input voltage should be between 4.75V to 5.25V <p>If the voltage reads correctly, this indicates that the ECU's power supply is normal and that sensor replacement is required. If the reading is incorrect, then check the main wiring loom for issues</p> <p>Check the resistance of the air temperature pressure sensor:</p> <ul style="list-style-type: none"> Ensure the ignition is off and unplug the sensor Measure the resistance between the plug pins using a multimeter Expected resistance should be as follows: 	
Temperature (°c)	Resistance (KΩ)
-10	8.11 ~ 9.71
0	5.21 ~ 6.04
20	2.32 ~ 2.54
40	1.10 ~ 1.21
<p>If the resistance is between expected levels, the sensor is operating correctly; check the wiring loom for issues. If the resistance is incorrect, replace the sensor.</p>	
Assembly	
<ul style="list-style-type: none"> Plug and remount the sensor 	

THROTTLE POSITION SENSOR
Disassembly (Throttle Valve)
<ul style="list-style-type: none"> Disconnect the wiring plug, and remove the throttle position sensor
Testing
<p>Check the input voltage of the throttle position sensor:</p> <ul style="list-style-type: none"> Turn the ignition on; Measure the voltage between the connecting pins on the main wiring loom. The voltage should be between 4.75V to 5.25V <p>If the voltage reads correctly, this indicates that the ECU's power supply is normal and that sensor replacement is required. If the reading is incorrect, then check the main wiring loom for issues</p>
Assembly
<ul style="list-style-type: none"> Plug and remount the sensor. <p>IMPORTANT: Only a suitably trained and qualified technician should replace the throttle position sensor.</p>

CYLINDER WALL TEMPERATURE SENSOR	
Disassembly	
<ul style="list-style-type: none"> Disconnect the wiring plug, and remove the cylinder wall temperature sensor 	
Testing	
<p>Check the resistance of cylinder wall temperature sensor:</p> <ul style="list-style-type: none"> Ensure the ignition is off and unplug the sensor Measure the resistance of the plug pins Expected resistance should be as follows: <p>If the voltage reads correctly, this indicates that the ECU's power supply is normal and that sensor replacement is required. If the reading is incorrect, then check the main wiring loom for issues</p>	
Temperature (°c)	Resistance (KΩ)
-10	58.1 ~ 68.28
0	33.15 ~ 38.29
20	11.99 ~ 13.43
40	4.89 ~ 5.33
<p>If the resistance is at normal levels, this indicates that the sensor is operating correctly. Check the wiring loom for any issues. If the resistance is incorrect, replace the sensor.</p>	
Assembly	
<ul style="list-style-type: none"> Plug and remount the sensor 	

FUEL INJECTOR
Disassembly
<ul style="list-style-type: none"> Disassemble the fuel inlet pipe. Disconnect the wiring plug. Remove the 2x holding and 2x fixing pins. Slowly screw out the fuel injector.
Testing
<p>Check resistance of fuel injector coil:</p> <ul style="list-style-type: none"> Ensure the ignition is off and unplug the sensor Measure the resistance between the fuel injector plug pins using a multimeter The resistance should be between 12.6Ω~11.4Ω <p>If the resistance is between expected levels, check the main wiring loom for any issues. If not, replace the fuel injector.</p>
Assembly
<p>Preparation before assembly:</p> <ul style="list-style-type: none"> Do not use the fuel injector if it has been dropped or knocked, as this could lead to damage to the internal components, which will lead to poor performance and other possible issues. Check the O-ring and seal are free from damage. Always replace the O-ring when reassembling the fuel injector. Sparingly apply a thin layer of paraffin-based mineral oil to the O-ring and the locating surfaces. <p>Specific assembly steps:</p> <ul style="list-style-type: none"> Align the fuel injector with the air inlet elbow's corresponding position and carefully screw it into the installation hole. After inserting the screw into the installation hole and re-installing the fixing, screw the fuel injector into the air inlet pipe's installation hole, using a torque setting of 6 to 10Nm.

FUEL INJECTOR
Assembly
<p>NOTES:</p> <ul style="list-style-type: none"> Be cautious when disassembling or assembling wiring plugs to avoid damage. Always assemble or disassemble the fuel injector gently, ensuring surfaces are clean and free of debris. Do not use a 12V supply to directly energize the fuel injector for more than 60 seconds, as this will damage the fuel injector. Never run the fuel injector without fuel. <p>IMPORTANT: Fuel injector removal, inspection and replacement should be undertaken by a trained, qualified technician.</p>

FUEL PUMP ASSEMBLY			
Disassembly			
<ul style="list-style-type: none"> Disassemble the fuel pipe that connects to the fuel outlet pipe Disconnect the wiring plug Remove the 6x holding bolts, then remove the fuel pump 			
Testing			
<p>Check fuel pump voltage:</p> <ul style="list-style-type: none"> Ensure the ignition is off and unplug the fuel injector Switch the ignition on Measure the voltage supply to the fuel pump at the main wiring loom, ensuring to do this within 3 seconds after turning on the ignition. The voltage should read around 12V. <p>If the voltage is standard, then replace the fuel pump. If not, then proceed to the next step.</p> <p>Check fuel pump lines:</p> <ul style="list-style-type: none"> Ensure the ignition is off Pull out the ECU plug, turn the ignition on and within 3 seconds after turning the ignition on check whether the wiring loom's corresponding pins are connected. 			
	Inspection Point	Connected	Not Connected
a	Fuel pump relay A pin-ECU_J2-9 pin	Circuit is connected. Change the current ECU for one that is known to be correctly operational to check again.	Fuel pump relay circuit open
b	Fuel pump relay B pin-fuel pump A pin		Fuel pump power circuit open
c	Negative pole of power-fuel pump B pin		Fuel pump earth circuit open
(continues on next page)			

TROUBLESHOOTING - TESTING

FUEL PUMP ASSEMBLY			
Turn off the engine and reconnect the plug. Turn the ignition back on and check for connection based on the following:			
	Inspection Point	Voltage is 12V	Voltage is not 12V
d	Fuel pump relay B pin-positive pole of power	Fuel pump has rotation sound	Fuel pump relay +12V - fuel pump relay circuit open. Replace fuel pump relay.
e	Fuel pump A(+)B(-)and power voltage		Fuel pump power +12V Fuel pump circuit open. Replace fuel pump.
IMPORTANT: Do not run the fuel pump assembly without fuel.			
Assembly			
<ul style="list-style-type: none"> Bolt into place using the 6x bolts (torque settings - 2.2Nm to 2.8Nm) Reconnect the wiring plug Re-attach the fuel pipe to the fuel outlet pipe <p>NOTES: Ensure the locking device is released sufficiently before removing the plug. Hold the plug-in instead of holding the wires. Do not exert excessive force, as this could lead to wire and component damage.</p>			

AIR IDLE SENSOR (IDLE STEP MOTOR)
Disassembly
<ul style="list-style-type: none"> Disconnect the wiring plug, and remove the sensor
Testing
<p>Check the resistance of the air idle sensor coil:</p> <ul style="list-style-type: none"> Measure the resistance of the sensor pins using a multimeter: Resistance should be between $53 \pm 5.3 \Omega$ from 5°C to 27°C <p>If the resistance is correct, check the main wiring loom for issues. If not, replace the sensor.</p>
Assembly
<ul style="list-style-type: none"> Plug and remount the sensor <p>NOTES: When changing this component, do not pull or push it on to the fitting shaft manually, as this will damage the actuator.</p> <p>IMPORTANT: Do not remove or refit the idle step motor when the power is on.</p>

THROTTLE VALVE
Disassembly
<ul style="list-style-type: none"> Loosen the accelerator cable locking nut using a 10mm open spanner. Take the lower end of the accelerator cable out of the throttle valve slot, then take the accelerator cable's interior wire out of the throttle valve slot. Remove the connecting sleeve clamp of the air inlet elbow using a screwdriver. Disconnect the wiring plug <p>Never adjust the idling regulating screws. Only a suitably trained, qualified technician should undertake any maintenance on the throttle valve.</p>
Assembly
<ul style="list-style-type: none"> To reassemble the throttle valve, reverse the disassembly procedure. <p>NOTES:</p> <ul style="list-style-type: none"> Do not let the throttle valve open and close suddenly as this can damage the throttle valve and its main body. Do not disassemble the throttle valve and its idling regulating bolt. Do not apply carburettor cleaner to the main body components of the throttle valve. Do not use compressed air. Do not adjust the stop screw of the throttle valve Take care that no debris or moisture enters the throttle valve access when fitting or replacing the throttle valve. The plug should be removed and replaced carefully to prevent damage of the wiring pin

TROUBLESHOOTING - TESTING

AIR INLET ELBOW
Disassembly
<ul style="list-style-type: none"> Remove connecting sleeve clamp using a screwdriver. Disconnect the wiring plug Disassemble the holding nut and bolt, and then remove
Assembly
<ul style="list-style-type: none"> Install the air inlet pipe by reversing the disassembly sequence. Torque for the holding nut and bolt is between 6Nm to 10Nm.

ECU
Disassembly
<ul style="list-style-type: none"> Close ignition switch Remove the ECU Disconnect wiring plug
Assembly
<ul style="list-style-type: none"> Before installation, confirm the plug and ECU slot are free of dust, dirt, water, or other debris. Gently push the ECU towards the plug. The plug should click into place fully. <p>IMPORTANT: Ensure that the engine is not running/on before removing the ECU. DO NOT DISASSEMBLE THE ECU WHILE THE IGNITION IS ON.</p>

ENVIRONMENTAL STORAGE/OPERATING CONDITIONS			
Item	Specification	Parameters	
ECU	Storage temperature (°c)	-40 ~ 105	
	Working temperature (°c)	-20 ~ 85	
	Working voltage (V/DC)	9 ~ 16	
CYLINDER WALL TEMPERATURE SENSOR	-10°c	KΩ	58.10 ~ 68.28
	0°c	KΩ	33.15 ~ 8.29
	20°c	KΩ	11.99 ~ 13.43
	40°c	KΩ	4.89 ~ 5.33
	Working temperature (°c)		-40 ~ 200
	Tightening torque (Nm)		12±2
OXYGEN SENSOR	Working voltage (V/DC)		12 ~ 14
	Heating rod resistance (Ω @ 23°c)		8 ~ 15
	Tightening torque (Nm)		13 ~ 17
FUEL INJECTOR	Working temperature (°c)		-30 ~ 130
	Working voltage (V/DC)		14
	Working medium pressure (KPa)		<500
AIR IDLE SENSOR (IDLE STEP MOTOR)	Resistance Ω (5°c ~ 27 °c)		53±5.3

