

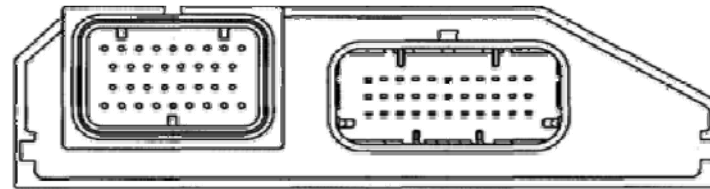
This list gives an overview of the suspension specs and the ECU pin lay out of the 2015 MT-09 Tracer (2SC)

Front suspension settings			MT-09 Tracer	MT-09
Front fork stroke			137mm	137mm
Inner tube outer diameter			41mm	41mm
Damping spec Rebound			Piston speed: 0.3m/s 670N	Piston speed: 0.3m/s 290N
Damping spec Compression			Piston speed: 1.0m/s 480N	Piston speed: 1.0m/s 325N
Spring spec	Free length		305,3	300,3
	Spring rate (K _s)		6,86 N/mm	7,35 N/mm
Fork oil	Recommend oil		Yamaha suspesnion oil 1 or equivalent	Yamaha suspesnion oil 1 or equivalent
	Oil Quantity		Left: 444 cm3 Right: 431 cm3	Left: 472 cm3 Right: 458 cm3
	Oil level		Left: 174 mm Right: 175 mm	Left: 147 mm Right: 148 mm
Setting	Spring preload setting (hard/std/soft)		4 mm / 16 mm / 19mm	4 mm / 16 mm / 19mm
	Damping adjusting position	Rebound (hard/std/soft)	Fully turned in/1 ¼ turn out/3 turn out	Fully turned in/1 ¼ turn out/3 turn out
		Compression (hard/std/soft)	N.A.	N.A.

Rear suspension settings			MT-09 Tracer	MT-09
Rear suspension stroke			60mm	60mm
Damping spec Rebound			Piston speed: 0.3m/s 3730N	Piston speed: 0.3m/s 1865N
Damping spec Compression			Piston speed: 0.3m/s 770N	Piston speed: 0,3m/s 320N
Spring spec	Free length		197,4 mm	191,4 mm
	Spring rate (K _s)		99,9 N/mm	99,9 N/mm
Setting	Spring preload setting (hard/std/soft)		7. / 4. / 1.	7. / 4. / 1.
	Damping adjusting position	Rebound (hard/std/soft)	Fully turned in/1 ½ turn out/3 turn out	Fully turned in/1 ½ turn out/3 turn out
		Compression (hard/std/soft)	N.A.	N.A.

MT-09TRA (2SC) ECU Pin layout

Pin#	NAME	Pin#	NAME	Pin#	NAME
1	Ignition coil No.1	24	Radiator Fan Relay	47	
2		25	Main Relay	48	
3	Power System Ground 1	26	Injector No. 3	49	Start Switch
4	Injector No.1	27		50	Side Stand Switch
5		28		51	Sensor Power Source 2
6	Air Induction (AI) Solenoid	29		52	Sensor Power Source 3
7	Throttle Motor Control -	30		53	Intake Air Pressure Sensor 1
8	Throttle Motor Control +	31		54	Intake Air Pressure Sensor 2
9	Throttle Motor Power Source	32	Sensor Power Source 1	55	
10	Back Up Power Source	33	Control System Ground 1	56	Mode Change Switch (Drive Mode)
11	Power source	34	CAN communication High	57	Control System Ground 2
12	Ignition coil No.2	35	Water temperature Sensor	58	Sensor System Ground 1
13		36	Throttle Position Sensor 1	59	Lean Angle Sensor
14	Power System Ground 2	37	Accelerator Position Sensor 1	60	O2 Sensor
15	Injector No.2	38	Crankshaft Position Sensor	61	Speed Sensor 1
16	Heater for O2 sensor	39		62	Speed Sensor 2
17		40		63	Meter Communication
18		41	Battery Voltage Monitor	64	
19	Headlight	42	Grip Warmer	65	Neutral Switch
20		43	CAN communication Low	66	Sensor System Ground 2
21		44	Air Temperature Sensor	67	Sensor System Ground 3
22		45	Throttle Position Sensor 2	68	
23	Ignition coil No. 3	46	Accelerator Position Sensor 2	69	



34	35	36	37	38	39	40	41	42
43	44	45	46	47	48	49	50	
51	52	53	54	55	56	57	58	
59	60	61	62	63	64	65	66	67

11	10	9	8	7	6	5	4	3	2	1
22	21	20	19	18	17	16	15	14	13	12
33	32	31	30	29	28	27	26	25	24	23