

PART NUMBER			DESCRIPTION	MANUFACTURER	MANUFACTURER NUMBER	Quantity
ELECTRONIC COMPONENTS	TZ001E	Adafruit Feather MO Bluefruit LE	Micro-controller Development Board	Adafruit	Product ID: 2995	X 1
	TZ002E	9-DOF Absolute Orientation IMU Fusion Breakout – BN0055	9-DOF BN005 Absolute Orientation Sensor Breakout Board (Optional)	Adafruit	Product ID: 2472	X 1
	TZ003E	8-Channel PWN or Servo Feather Wing	8 Channel Servo Controller	Adafruit	Product ID: 2928	X 1
	TZ004E	HQ 820uF / 16v Solid CAP	820uF / 16v Conductive Polymer Aluminum Solid Capacitor solder to the 8-Channel PWN or Servo Feather Wing Board	MDFLY / VARY*	CAP-SC0006	X 1
	TZ005E	C&K Flat Toggle Switch	Flat Toggle Switch DPDT 5A 120V	C&K Components	7101P3YZQE	X 1
	TZ006E	Battery to Switch to Controller Cable	Custom cable connecting the Battery to Switch and Controller with adapter suitable for the battery	K-01 / VARY*	N/A	X 1
	TZ007E	Sensor to Micro-controller Cable	Custom cable connecting Sensors to the i2C and Power terminal	K-01 / VARY*	N/A	X 1
	TZ008E-B	HydriMax NiMH 4C 4.8V 2000mAh Flat AA Rx U Battery Pack	4 Cells 4.8V NiMH Flat Battery Pack	Hobbico / VARY*	HCAM6321	X 1
	TZ009E	BMS-210DMH [180 Custom] Servo	BMS-210DMH Metal Gear Coreless Servo modify for 180 degree travel angle.	Blue Bird	BMS-210DMH	X 8
	TZ010M	Round Alloy Aluminum Servo Arm Horn 25T	25 Tooth Futaba compatible Round Alloy Aluminum Servo Arm (Mounting hole spacing: 12mm)	VARY*	N/A	X 4
CONNECTION HEADERS	TZ011E	1 X 8 Jumper Wire	1X 8 Jumper Wire connecting BAT and D9(A7) for battery voltage measurement	VARY*	N/A	X 1
	TZ012C	1 X 12 Female Header 0.1”	1X 12 Female Header 0.1”solder to the 8-Channel PWN or Servo Feather Wing	Gikfun / VARY*	LYSB00R2MQSC8	X 1
	TZ013C	Short Feather Header Kit 12pin Female Header	Short Female Header solder to the Adafruit Feather Micro-controller Development Board	Adafruit	Product ID: 2940	X 1
	TZ014C	Short Feather Header Kit 16pin Female Header	Short Female Header solder to the Adafruit Feather Micro-controller Development Board	Adafruit	Product ID: 2941	X 1
	TZ015C	Short Feather Header Kit 12pin Male Header	Short Male Header solder to the 8 Channel PWN or Servo Feather Wing Board	Adafruit	Product ID: 3002	X 1
	TZ016C	Short Feather Header Kit 16pin Male Header	Short Male Header solder to the 8 Channel PWN or Servo Feather Wing Board	Adafruit	Product ID: 3003	X 1
	TZ017C	Terminal Block -2pin 3.5mm	2pin Terminal Block solder to the 8 Channel PWN or Servo Feather Wing Board to connect VCC and GND	Adafruit / VARY*	Product ID: 724	X 1
	TZ018C	3 X 4 Angle Male Header	3 X 4 Angle Male Header solder to the 8 Channel PWN or Servo Feather Wing Board to connect the Servo	Adafruit / VARY*	Product ID: 816	X 2
	TZ019C	3 X 1 Angle Male Header 0.1”	3 X 1 Angle Male Header 0.1” solder to the 8 Channel PWN or Servo Feather Wing Board for Power Connection	Adafruit / VARY*	Product ID: 1541	X 1
	TZ020C	2 X 1 Angle Male Header 0.1”	2 X 1 Angle Male Header 0.1” solder to the 8 Channel PWN or Servo Feather Wing Board for iC2 Connection	Adafruit / VARY*	Product ID: 1541	X 3
	TZ021C	1 X 6 Angle Male Header 0.1”	1 X 6 Angle Male Header 0.1” solder to the 9-DOF Absolute Orientation IMU Fusion Breakout – BN0055	Adafruit / VARY*	Product ID: 1540	X 1
BODY FRAME	TZ022F	Top Body Cover	Main Body Top Cover with fitting cut out	K-01 / VARY*	N/A	X 1
	TZ023F	Mid Body Mount Plate A	Main mid-Body Outer Plate with mounting holes for Controllers	K-01 / VARY*	N/A	X 1
	TZ024F	Mid Body Servo Plate A	Main mid-Body Inner Plate with Servo mounting cut out	K-01 / VARY*	N/A	X 1
	TZ025F	Mid Body Servo PlateB	Main mid-Body Inner Plate with Servo and Orientation Sensor mounting cut out	K-01 / VARY*	N/A	X 1
	TZ026F	Mid body Mount Plate B	Main mid-Body Outer Plate with wire routing cut out	K-01 / VARY*	N/A	X 1
	TZ027F	Bottom Body Cover	Main Body Bottom Cover	K-01 / VARY*	N/A	X 1
	TZ028F	Servo Arm Mount Plate	Plate connect the Servo Arm and the Coxa Plates	K-01 / VARY*	N/A	X 4
	TZ029F	Coxa Plate I-A	Plate connect the Trochanter Servo Arm and the Servo Arm Mount Plate Set-A	K-01 / VARY*	N/A	X 2
	TZ030F	Coxa Plate II-A	Plate connect to Coxa Plate I-A and Servo Arm Mount Plate Set-A	K-01 / VARY*	N/A	X 2
	TZ031F	Coxa Plate I-B	Plate connect the Trochanter Servo Arm and the Servo Arm Mount Plate Set-B	K-01 / VARY*	N/A	X 2
	TZ032F	Coxa Plate II-B	Plate connect to Coxa Plate I-B and Servo Arm Mount Plate Set-B	K-01 / VARY*	N/A	X 2
	TZ033F	Femur Plate I-A	Plate connect to the Trochanter Servo Set-A	K-01 / VARY*	N/A	X 2
	TZ034F	Femur Plate II-A	Plate connect to Femur Plate I-A	K-01 / VARY*	N/A	X 2
	TZ035F	Femur Plate I-B	Plate connect to the Trochanter Servo Set-B	K-01 / VARY*	N/A	X 2
	TZ036F	Femur Plate II-B	Plate connect to Femur Plate I-B	K-01 / VARY*	N/A	X 2
	TZ037F	Trochanter Plate A	Plate connect to Femur Plate II-A in order to accept Hex Socket Screw Axis from Coxa Plate II-A	K-01 / VARY*	N/A	X 2
	TZ038F	Trochanter Plate B	Plate connect to Femur Plate II-B in order to accept Hex Socket Screw Axis from Coxa Plate II-B	K-01 / VARY*	N/A	X 2
FASTENERS	TZ039H	.5mm M3 Hole Size Stainless Steel Washer	Washer, which apply to both side of the 30mm Brass Spacer while connect the Coxa Plate	Small Parts / VARY*	B00DHVA62G	X 24
	TZ040H	M3 30mm Brass Spacer (Female – Female)	Typical 30mm Brass Spacer (Female – Female), which standoff the Coxa Plates	Uxcell / VARY*	a15081800ux0074	X 12
	TZ041H	M2 15mm Brass Spacer (Female – Female)	Typical 15mm Brass Spacer (Female – Female), which standoff the Mid-Body to Top and Bottom Cover	Uxcell / VARY*	a14081400ux0125	X 6
	TZ042H	M3 10mm Brass Spacer (Female – Female)	Typical 10mm Brass Spacer (Female – Female), which standoff the two Femur Plates	Uxcell / VARY*	a14050600ux1057	X 20
	TZ043H	M3 8mm Brass Spacer (Female – Female)	Typical 8mm Brass Spacer (Female – Female), which standoff the the Main mid-Body Plates.	Uxcell / VARY*	a12092200ux0061	X 4
	TZ044H	M3 5mm Brass Spacer (male – Female)	Typical 5mm Brass Spacer (Female – Female), which connect the Trochanter Plate to the Coxa Plate II	Uxcell / VARY*	a14081300ux0130	X 12
	TZ045H	M3 X 6mm Black Round Socket Screw	Typical M3 x 6mm Black Round Socket Screw, which connect the Femur Plate I and Femur Plate II	Uxcell / VARY*	a15092400ux0118	X 54
	TZ046H	M3 X 6mm Stainless Steel Socket Screw	Typical M3 x 6mm Stainless Steel Socket Screw, which connect the mid-Body and Trochanter Plate	Uxcell / VARY*	a16051600ux0371	X 28
	TZ047H	M2.5 X 6mm Black Round Socket Screw	Typical M2.5 x 6mm Black Round Socket Screw, which mainly use to connect the Servo Arm to the Plates	Uxcell / VARY*	a15120300ux0226	X 34
	TZ048H	M2.5 X 8mm Stainless Steel Socket Screw	Typical M2.5 x 8mm Stainless Steel Socket Screw, which mainly use to connect the mid-Body Plates to both Cover Plates	Uxcell / VARY*	a16051600ux0367	X 10
	TZ049H	M2 X 8mm Black Round Socket Screw	Typical M2 x 8mm Black Round Socket Screw, which connect the Servo to the Femur Plate I	Uxcell / VARY*	a15120300ux0258	X 8
	TZ050H	M2 Black Hex Lock Nut	Typical M2 Black Hex Lock Nut use in conjunction with M2 socket screw	Uxcell / VARY*	a15072100ux0228	X 8
	TZ051H	M2.5 Black Hex Lock Nut	Typical M2.5 Black Hex Lock Nut use in conjunction with M2.5 socket screw	Uxcell / VARY*	a15072100ux0296	X 18
	TZ052H	M3 Black Hex Lock Nut	Typical M3 Black Hex Lock Nut use in conjunction with M3 socket screw	Uxcell / VARY*	a15072100ux0301	X 8
	TZ053H	M2.5 Stainless Steel Hex Nut	Typical M2.5 Stainless Steel Hex Nut use in conjunction with M2.2 socket screw	Uxcell / VARY*	a15072100ux0296	X 4