



Pro-Tester Double-Pull



Pro-Tester Parts ID Manual

Model Number: T-0100/A

Revision: B

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Scope of Manual:

This manual contains diagrams and related parts lists to identify potential service/spare parts for your DEMTECH Services, Inc. Pro-Tester™ Field Tensiometer.

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Manual Number: **T-PARTS ID MANUAL/PRO-TESTER, Revision: B**

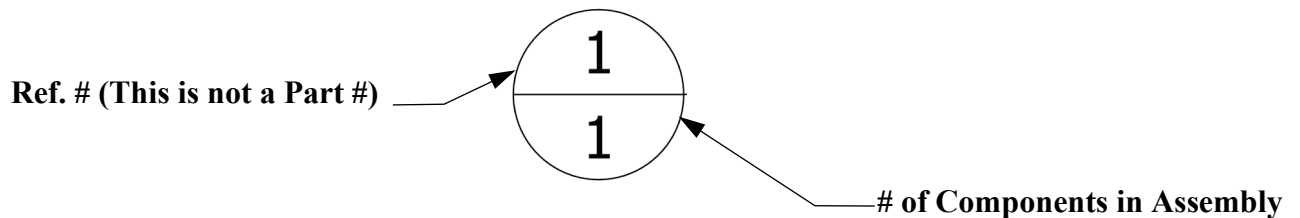
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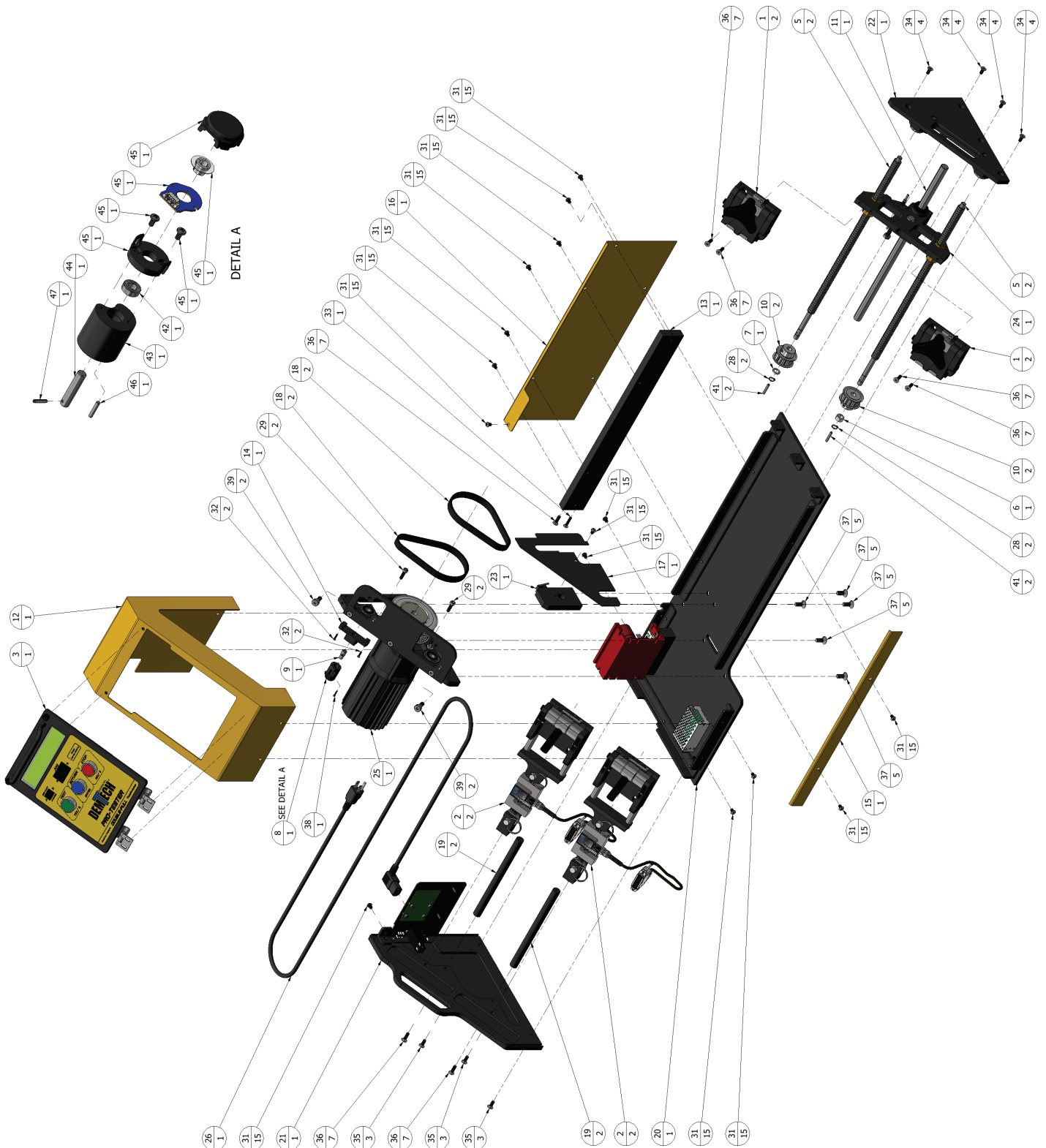
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1 Order Instructions

Refer to the diagrams and related parts lists on the following pages to identify replacement parts for the Pro-Tester. To locate a part, find it visually on the exploded assembly diagram and note its Reference Number. Next refer to the assemblies parts list to identify the corresponding Part Number using the Reference Number. When ordering parts, be sure to specify the Part Number not the Reference Number. '*NS-Hardware*' refers to non-stock items, these parts are still available for order, please provide the part description to order NS-Hardware items.

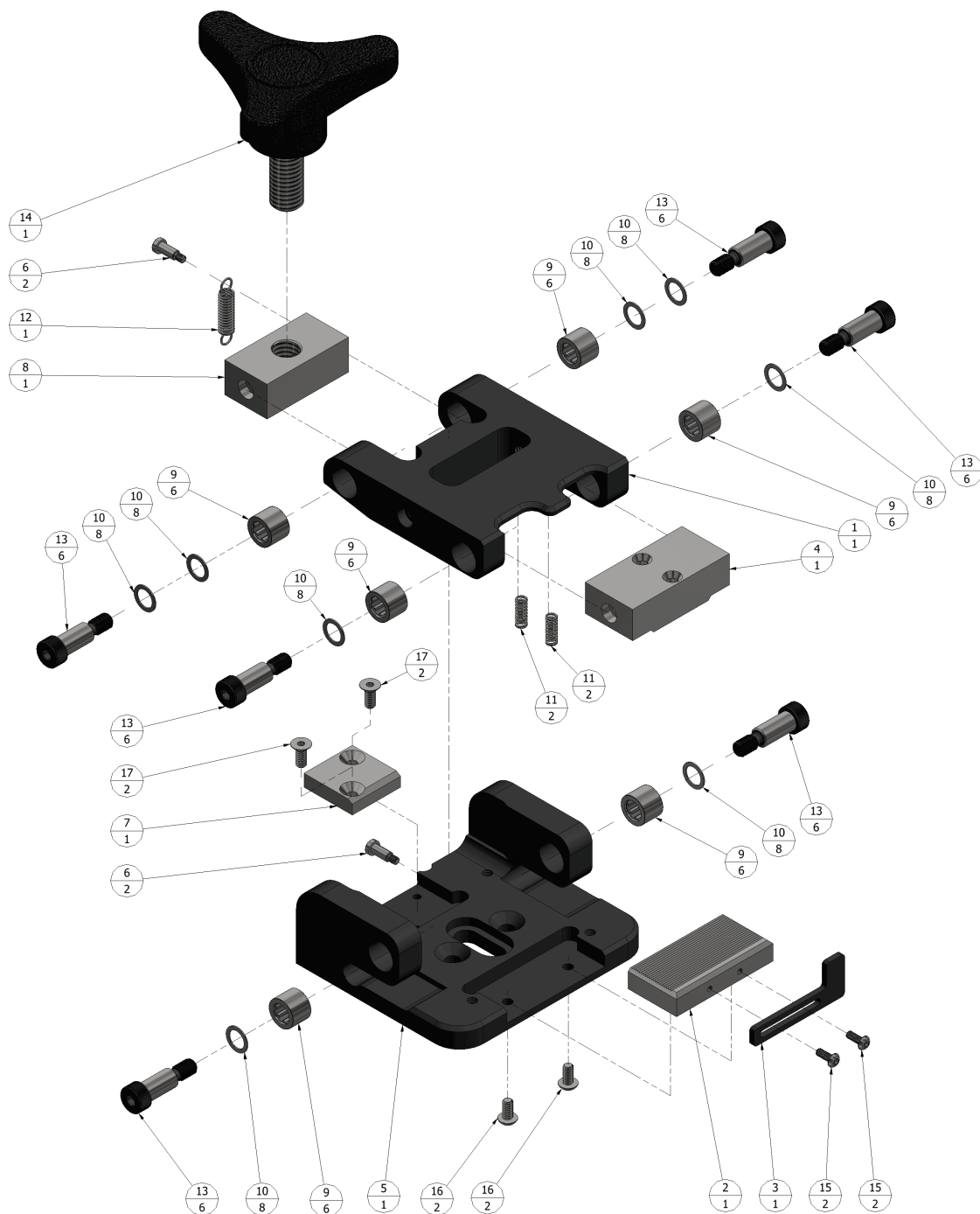




1.1 T-0100/A – ASSY, PRO-TESTER FIELD TENSIOMETER
(Parts ID)

PARTS LIST			
REF. NO	PART NUMBER	DESCRIPTION	QTY
1	T-022/A	ASSEMBLY, SAMPLE GRIP, TENSIO METER	2
2	T-027/A	ASSEMBLY, GRIP TO STRAIN GAUGE	2
3	T-028/A	ASSEMBLY, MAIN CONTROL PANEL, STD	1
4	T-040 INSERT	OVERLAY, MAIN CONTROL PANEL	1
5	T-057	SCREW, 5/8" X .20" X 20" LEAD, GRIP DRIVE, PRO-TESTER DOUBLE	2
6	T-057.1	SPACER, UPPER LEAD SCREW, DOUBLE UNIT	1
7	T-057.2	SPACER, LOWER LEAD SCREW, DOUBLE AND SE	1
8	T-057M/A	ASSEMBLY, ROTARY ENCODER ISOLATION MOUNT	1
9	T-057S/A	ASSEMBLY, LEAD SCREW CLAMP SLEEVE	1
10	T-059.1	PULLEY, 13 TOOTH X 3/8" PITCH, 10mm BORE, ALUMINUM W/ FLANGES	2
11	T-066	SHAFT, GUIDE, LINEAR BEARING	1
12	T-072	HOUSING, MAIN CONTROL PANEL	1
13	T-075A	STANDOFF, REAR STIFFENER	1
14	T-076A	SPACER, ROTARY ENCODER, STANDOFF	1
15	T-086	COVER, FRONT	1
16	T-087	COVER, REAR	1
17	T-088	COVER, BELT DRIVE, INSIDE	1
18	T-098.1	BELT, POWERGRIP INDUSTRIAL TIMING BELT, .375in PITCH X .50in WIDE X 41 TOOTH	2
19	T-100	SHAFT, STIFFENER	2
20	T-101/A	ASSEMBLY, MAIN BASE PLATE	1
21	T-103/A	ASSEMBLY, LEFT SIDE PLATE	1
22	T-105/A	ASSEMBLY, RIGHT SIDE PLATE, PRO-TESTER	1
23	T-106/A	GUIDE SHAFT SUPPORT ASSEMBLY, PRO-TESTER	1
24	T-107/A	ASSEMBLY, SHAFT CARRIAGE PLATE, PRO-TESTER	1
25	T-109/A	ASSEMBLY, MOTOR SUPPORT PLATE	1
26	T-111	CABLE, POWER, 6.56' POWER CORD BLACK NEMA 5-15P TO IEC 320-C13, RIGHT ANGLE SVT	1
27	T-399	PLATE, SERIAL, PRO-TESTER	1
28	NS-HARDWARE	RING, RETAINING, EXTERNAL, 10mm SHAFT, STAINLESS STEEL	2
29	NS-HARDWARE	SCREW, M6 X 1 X 20mm LONG, SOCKET HEAD CAP, 18-8 STAINLESS STEEL	1
30	NS-HARDWARE	SCREW, M10 X 0.15 X 16mm LONG, FLAT HEAD SOCKET CAP, 18-8 STAINLESS STEEL	2
31	NS-HARDWARE	SCREW, M6 X 1 X 8mm LONG, BUTTON HEAD SOCKET CAP, 18-8 STAINLESS STEEL	15
32	NS-HARDWARE	SCREW, M3 X 0.5 X 14mm LONG, FLAT HEAD SOCKET CAP, 18-8 STAINLESS STEEL	2
33	NS-HARDWARE	SCREW, M5 X 0.8 X 22mm LONG, FLAT HEAD SOCKET CAP, 18-8 STAINLESS STEEL	1
34	NS-HARDWARE	SCREW, M6 X 1 X 14mm LONG, FLAT HEAD SOCKET CAP, 18-8 STAINLESS STEEL	4
35	NS-HARDWARE	SCREW, M6 X 1 X 16mm LONG, FLAT HEAD SOCKET CAP, 18-8 STAINLESS STEEL	3
36	NS-HARDWARE	SCREW, M6 X 1 X 20mm LONG, FLAT HEAD SOCKET CAP, 18-8 STAINLESS STEEL	6
37	NS-HARDWARE	SCREW, M6 X 1 X 22mm LONG, FLAT HEAD SOCKET CAP, 18-8 STAINLESS STEEL	1
38	NS-HARDWARE	SCREW, M8 X 1.25 X 20mm LONG, FLAT HEAD SOCKET CAP, 18-8 STAINLESS STEEL	5
39	NS-HARDWARE	SCREW, 3-48 X 1/2" LONG, SOCKET HEAD CAP, 18-8 STAINLESS STEEL	1
40	NS-HARDWARE	SCREW, SHOULDER, 3/8" DIA X 1/4" LONG X 5/16-18 THREAD, 18-8 STAINLESS STEEL	2
41	NS-HARDWARE	RIVET, 1/8" BLIND, DOMED HEAD, .126-.187" MATL THICK, 18-8 STAINLESS STEEL	2
42	NS-HARDWARE	PIN, DOWEL, 3/16" OD X 1" LONG, HARDENED 416 STAINLESS STEEL	2
43	T-057B	BEARING, 3/16" ID X 3/8" OD X 1/8" WIDE, ABEC-5, STAINLESS STEEL	1
44	T-057M	MOUNT, ROTARY ENCODER, ISOLATION	1
45	T-057P	PIN, ROTARY ENCODER WHEEL	1
46	T-095SE	ROTARY ENCODER, 100 PPR, 3/16" BORE	1
47	NS-HARDWARE	PIN, DOWEL, 2mm OD X 10mm LONG, 18-8 STAINLESS STEEL	1
48	NS-HARDWARE	PIN, SPRING, 1/16" OD X 5/16" LONG, 18-8 STAINLESS STEEL	1

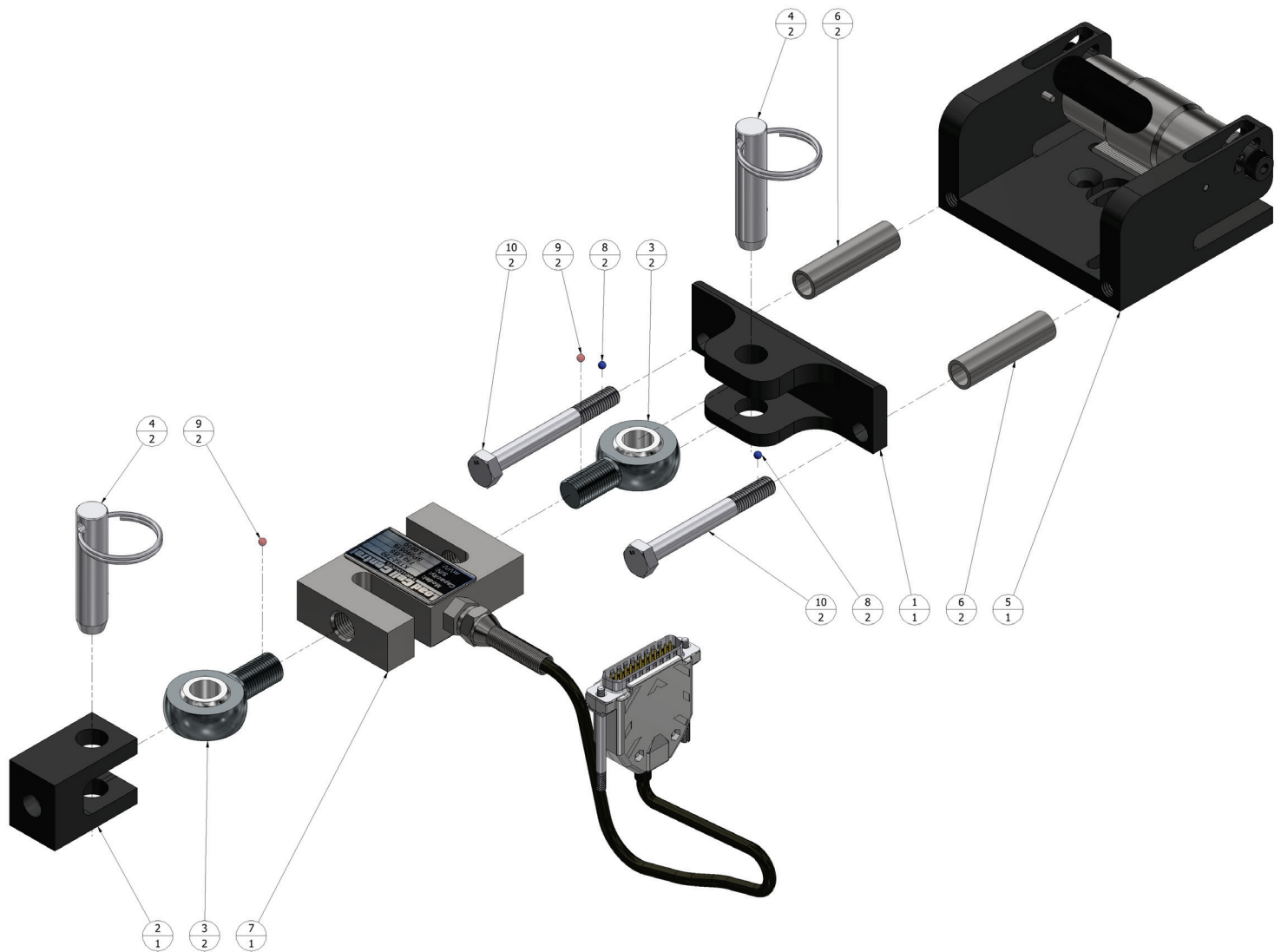
1.2 T-0100/A – ASSY, PRO-TESTER FIELD TENSIO METER (Parts List)



1.3 T-022/A – ASSY, SAMPLE GRIP, PRO-TESTER (Parts ID)

PARTS LIST			
REF. NO	PART NO	DESCRIPTION	QTY
1	T-005	JAW, SAMPLE GRIP, UPPER	1
2	T-006	GRIP, SAMPLE, LOWER	1
3	T-007	STOP, SAMPLE SIDE, ADJUSTABLE	1
4	T-008B	BLOCK, GRIPPER MOUNT, UPPER	1
5	T-009	JAW, SAMPLE GRIP, LOWER	1
6	T-009SB	SCREW, SHOULDER, 4mm DIA X 8mm LONG X M3 X 0.5 THREAD, LOW PROFILE, 18-8 STAINLESS STEEL	2
7	T-010	PAD, CLAMP SCREW, STRIKER	1
8	T-011	NUT, 1/2-13, UPPER JAW, SWIVEL	1
9	T-013	BEARING, GRIP ASSY, 5/16" ID X 1/2" OD X 3/8" LONG	6
10	T-015	SHIM, .314" ID X .438" OD X .020" THICK, 18-8 STAINLESS STEEL	8
11	T-016	SPRING, COMPRESSION, .180" OD X .563" FREE LENGTH X .026" WIRE DIA, ZINC PLATED STEEL MUSIC WIRE	2
12	T-017	SPRING, EXTENSION, .240" OD X .750" FREE LENGTH X .029" WIRE DIA, STEEL MUSIC WIRE	1
13	T-018	SCREW, SHOULDER, 5/16" DIA X 5/8" LONG X 1/4-20 THREAD, ALLOY STEEL	6
14	T-019	KNOB, THREE LOBE, BLACK THERMOPLASTIC, 1/2"-13 X 1.18" LONG MALE STUD	1
15	NS-HARDWARE	SCREW, M3 X 0.5 X 8mm LONG, BOTTON HEAD CAP, 18-8 STAINLESS STEEL	2
16	NS-HARDWARE	SCREW, M4 X 0.7 X 8mm LONG, BOTTON HEAD CAP, 18-8 STAINLESS STEEL	2
17	NS-HARDWARE	SCREW, M4 X 0.7 X 10mm LONG, FLAT HEAD SOCKET CAP, 18-8 STAINLESS STEEL	2

1.4 T-022/A – ASSY, SAMPLE GRIP, PRO-TESTER (Parts List)



1.5 T-027/A – ASSY, SAMPLE GRIP, CAM STYLE (Parts ID)

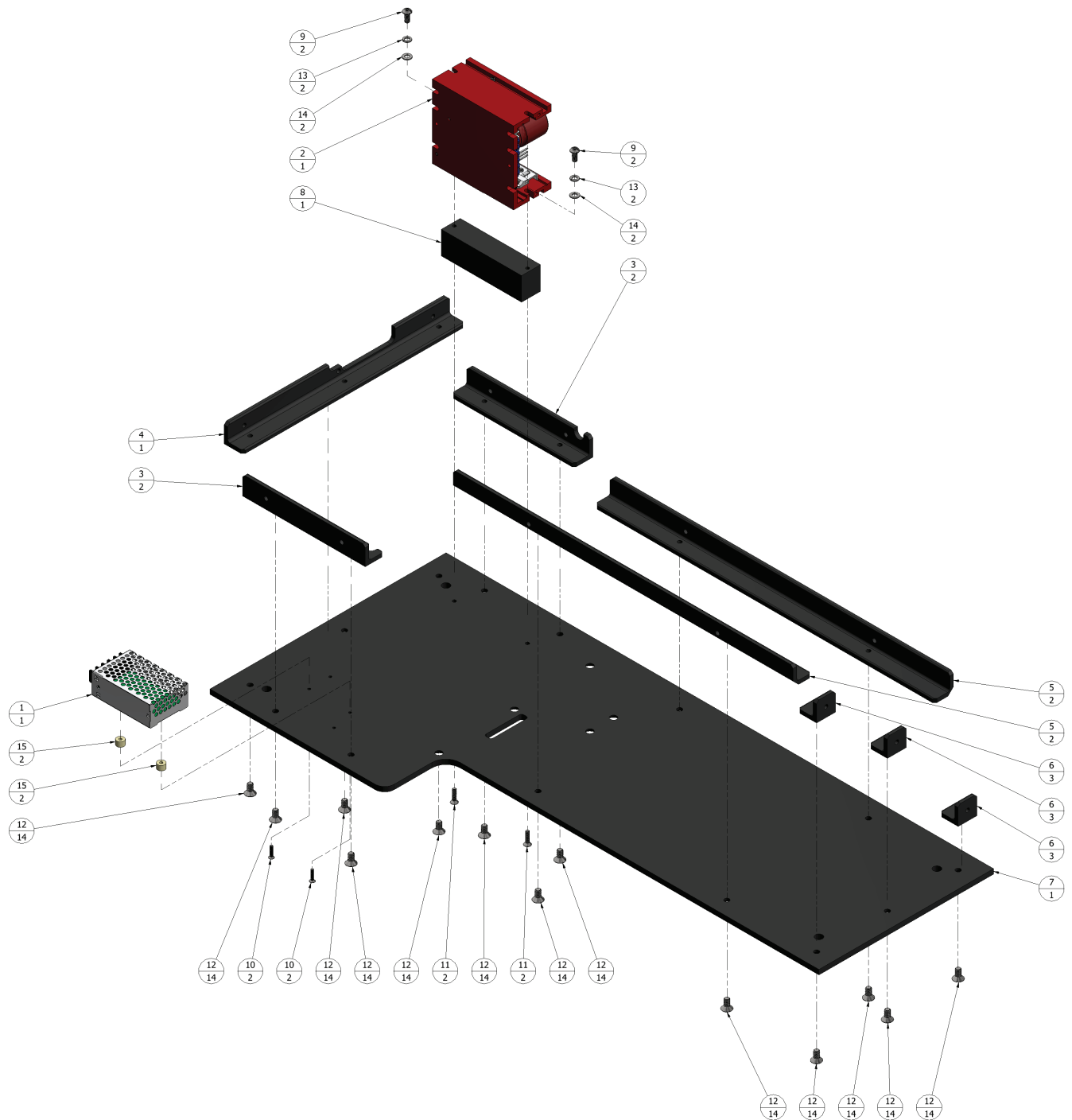
PARTS LIST			
ITEM	PART NO	DESCRIPTION	QTY
1	T-023	BRACKET, STRAIN GAGE, GRIP ASSY	1
2	T-024	BRACKET, STRAIN GAGE, MOUNT	1
3	T-025	ROD END, STRAIN GAGE, MODIFIED	2
4	T-026	PIN, QUICK-RELEASE, RING-GRIP, 1/2" DIA X 1.3" GRIP LENGTH, ZINC PLATED STEEL	2
5	T-035/A	ASSEMBLY, LOWER JAW, CAM STYLE, TENSIO METER	1
6	T-065	STANDOFF, STRAIN GAUGE BRACKET	2
7	T-096/A	ASSEMBLY, TENSION/COMPRESSION LOAD CELL, 750 LB	1
8	NS-HARDWARE	ADHESIVE, THREADLOCKING LIQUID, BLUE	2
9	NS-HARDWARE	ADHESIVE, THREADLOCKING LIQUID, RED	2
10	NS-HARDWARE	BOLT, M8 X 1.25 X 70mm LONG, HEX HEAD CAP, ZINC PLATED STEEL	2

1.6 T-027/A – ASSY, SAMPLE GRIP, CAM STYLE (Parts List)



PARTS LIST			
REF. NO	PART NO	DESCRIPTION	QTY
1	T-028H	HANDLE, 3/8" ROUND, 5-1/2" LONG X 1-3/4" TALL X 10-32 THD, OFFSET, BLACK ANODIZED ALUMINUM	1
2	T-039	PANEL, MAIN CONTROL, TENSIO METER	1
3	T-040	OVERLAY, MAIN CONTROL PANEL	1
4	T-041	A/B SWITCH, SPDT, 10A, ON/ON, ROCKER, BLACK	1
5	T-043	ASSEMBLY, MAIN CONTROLLER PC BOARD	1
6	T-046	STOP SWITCH, 22mm METAL PUSHBUTTON, NORMALLY CLOSED, RED	1
7	T-047	TEST SWITCH, 22mm METAL PUSHBUTTON, NORMALLY OPEN, GREEN	1
8	T-048	RETURN SWITCH, 22mm METAL PUSHBUTTON, NORMALLY OPEN, BLUE	1
9	T-049	JOG SWITCH, SPDT, 15A, MOM/OFF/MOM, ROCKER, BLACK	1
10	T-050	ASSEMBLY, LCD CHARACTER DISPLAY, PRO-TESTER	1
11	T-050.1	CABLE, RIBBON, LCD, PRO-TESTER	1
12	T-051	GASKET, CONTROL PANEL, SEALING	1
13	T-052	GASKET, LCD DISPLAY, SEALING	1
14	T-053	WINDOW, LCD DISPLAY, PROTECTIVE	1
15	T-054	FASTENER, 10-32 FLARE-IN CAPTIVE, SPRING RETRACTED	2
16	NS-HARDWARE	BUMPER, 3/4" OD X 3/8" HIGH, ADHESIVE BACKED, BLACK POLYURETHANE RUBBER	1
17	NS-HARDWARE	SCREW, 4-40 X 1/4" LONG, PAN HEAD PHILLIPS, 18-8 STAINLESS STEEL	8
18	NS-HARDWARE	WASHER, #4 REGULAR SPLIT LOCK, 18-8 STAINLESS STEEL	8
19	NS-HARDWARE	SCREW, 10-32 X 5/8" LONG, FLAT HEAD SOCKET CAP, 18-8 STAINLESS STEEL	2

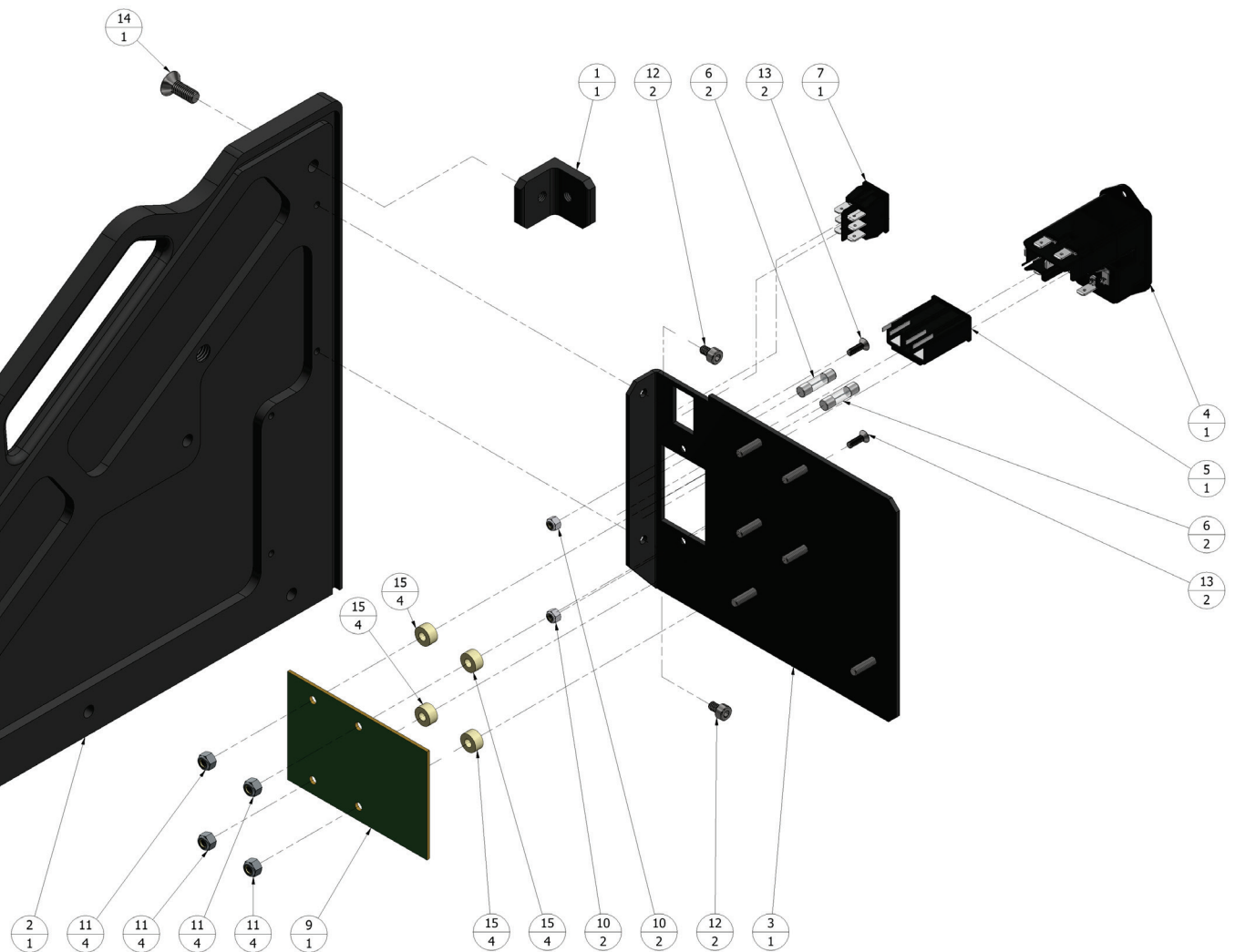
1.8 T-028/A – ASSY, MAIN CONTROL PANEL (Parts List)



1.9 T-101/A – ASSY, MAIN BASE PLATE, PRO-TESTER (Parts ID)

PARTS LIST			
REF. NO	PART NO	DESCRIPTION	QTY
1	T-044	POWER SUPPLY, 5 VDC @ 5 A, SINGLE OUTPUT	1
2	T-056	CONTROLLER, 1/2 HP, AC DRIVE, INVERTER DUTY	1
3	T-068	ANGLE, MOUNTING, 1" X 1" X 6-1/2" LONG	2
4	T-069	ANGLE, MOUNTING, 1" X 1" X 11-3/4" LONG	1
5	T-070	ANGLE, MOUNTING, 1" X 1" X 18" LONG	2
6	T-071	ANGLE, MOUNTING, 1" X 1" X 1" LONG	3
7	T-073	PLATE, MAIN BASE, SUPPORT	1
8	T-110A	STANDOFF, MOTOR CONTROLLER	1
9	NS-HARDWARE	SCREW, M5 X 0.8 X 12mm LONG, BUTTON HEAD SOCKET CAP, 18-8 STAINLESS STEEL	2
10	NS-HARDWARE	SCREW, M3 X 0.5 X 14mm LONG, FLAT HEAD SOCKET CAP, 18-8 STAINLESS STEEL	2
11	NS-HARDWARE	SCREW, M4 X 0.7 X 16mm LONG, FLAT HEAD SOCKET CAP, 18-8 STAINLESS STEEL	2
12	NS-HARDWARE	SCREW, M6 X 1 X 12mm LONG, FLAT HEAD SOCKET CAP, 18-8 STAINLESS STEEL	14
13	NS-HARDWARE	WASHER, M5 REGULAR SPLIT LOCK, 18-8 STAINLESS STEEL	2
14	NS-HARDWARE	WASHER, M5 FLAT, 5.3mm ID X 10mm OD X 1.0mm THICK, 18-8 STAINLESS STEEL	2
15	NS-HARDWARE	SPACER, ROUND, .140" ID X .375" OD X .250" LONG, NATURAL NYLON	2

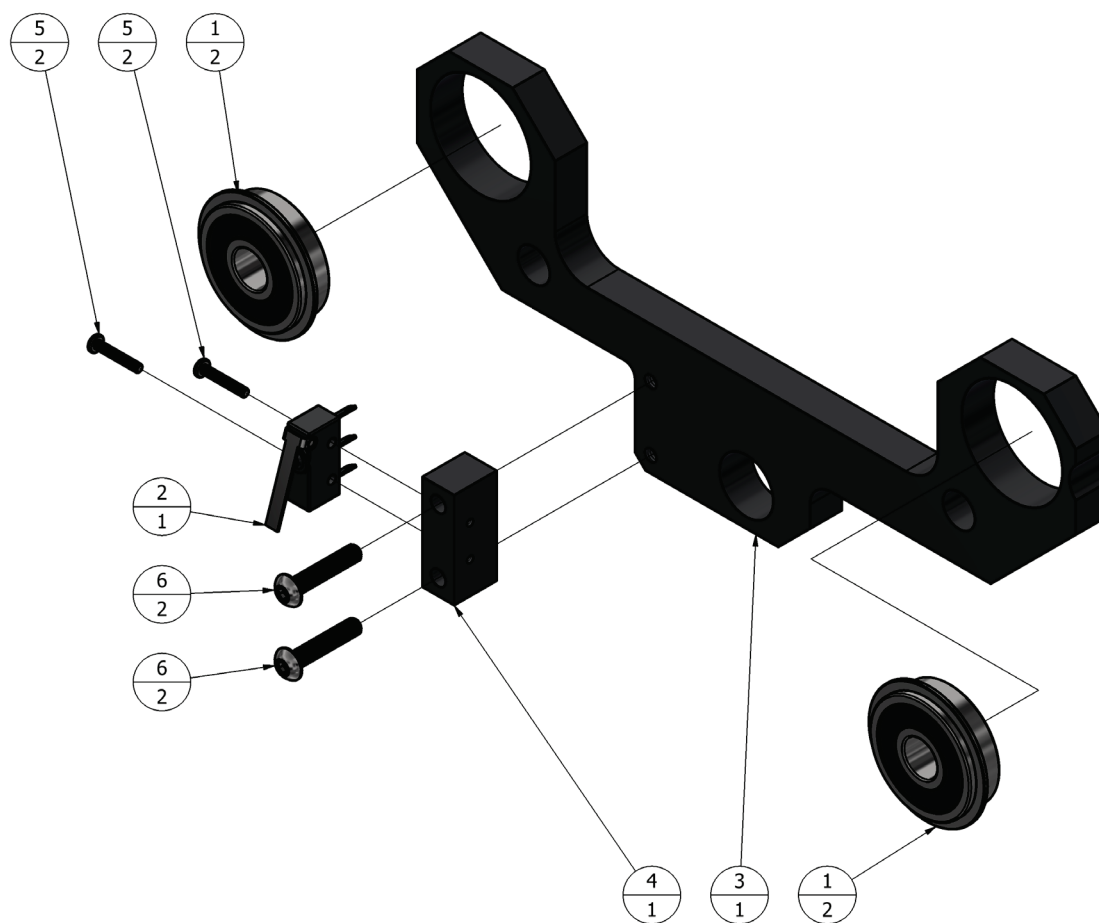
1.10 T-101/A ASSY, MAIN BASE PLATE, PRO-TESTER (Parts List)



1.11 T-103/A – ASSY, LEFT SIDE PLATE, PRO-TESTER (Parts ID)

PARTS LIST			
REF. NO	PART NUMBER	DESCRIPTION	QTY
1	T-071	ANGLE, MOUNTING, 1" X 1" X 1" LONG	1
2	T-074	PLATE, LEFT SIDE, END	1
3	T-089SE	BRACKET, POWER INPUT MODULE, SE	1
4	T-090	POWER ENTRY MODULE, PANEL MOUNT	1
5	T-091	FUSE DRAWER, POWER ENTRY MODULE	1
6	T-091F	FUSE, 5mm DIA X 20mm LONG, 250VAC, 5A	2
7	T-092	POWER SWITCH, DPDT, 12A, MOM/OFF/MOM, ROCKER, BLACK	1
9	T-111A	PRINTED CIRCUIT BOARD, INTERCONNECT, PRO-TESTER	1
10	NS-HARDWARE	NUT, HEX, M3 X 0.5 X 5.5mm WIDE X 4mm HIGH, NYLON-INSERT LOCK, ZINC PLATED STEEL	2
11	NS-HARDWARE	NUT, HEX, M4 X 0.7 X 7mm WIDE X 5mm HIGH, NYLON-INSERT LOCK, ZINC PLATED STEEL	4
12	NS-HARDWARE	SCREW, M4 X 0.7 X 6mm LONG, SOCKET HEAD CAP, 18-8 STAINLESS STEEL	2
13	NS-HARDWARE	SCREW, M3 X 0.5 X 10mm LONG, FLAT HEAD SOCKET CAP, 18-8 STAINLESS STEEL	2
14	NS-HARDWARE	SCREW, M6 X 1 X 16mm LONG, FLAT HEAD SOCKET CAP, 18-8 STAINLESS STEEL	1
15	NS-HARDWARE	SPACER, ROUND, .166" ID X .375" OD X .188" LONG, NATURAL NYLON	4

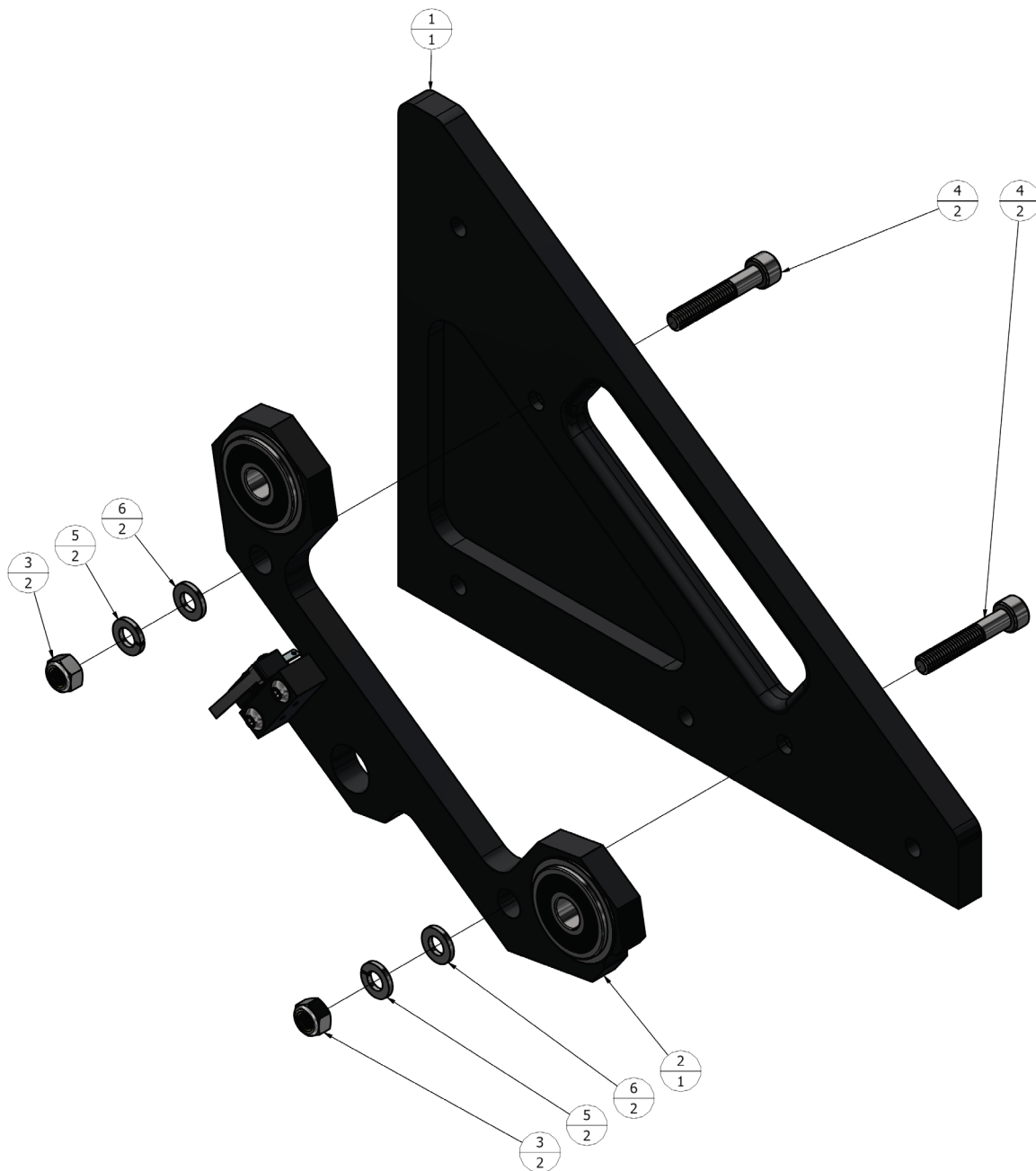
1.12 T-103/A – ASSY, LEFT SIDE PLATE, PRO-TESTER (Parts List)



1.13 T-104/A – ASSY, BEARING SUPPORT PLATE (Parts ID)

Parts List			
Ref. NO	PART NO	DESCRIPTION	QTY
1	T-062	BEARING, 10mm ID X 30mm OD X 9mm W, SEALED, W/ SNAP RING	2
2	T-063	LIMIT SWITCH, SEALED, SPDT, 5A, .110 QC, LEVER	1
3	T-080	PLATE, BEARING SUPPORT, END	1
4	T-083	BRACKET, LIMIT SWITCH, EXTENDED	1
5	NS-HARDWARE	SCREW, 2-56 X 1/2" LONG, PHILLIPS PAN HEAD, 18-8 STAINLESS STEEL	2
6	NS-HARDWARE	SCREW, M4 X 0.7 X 20mm LONG, BOTTON HEAD CAP, 18-8 STAINLESS STEEL	2

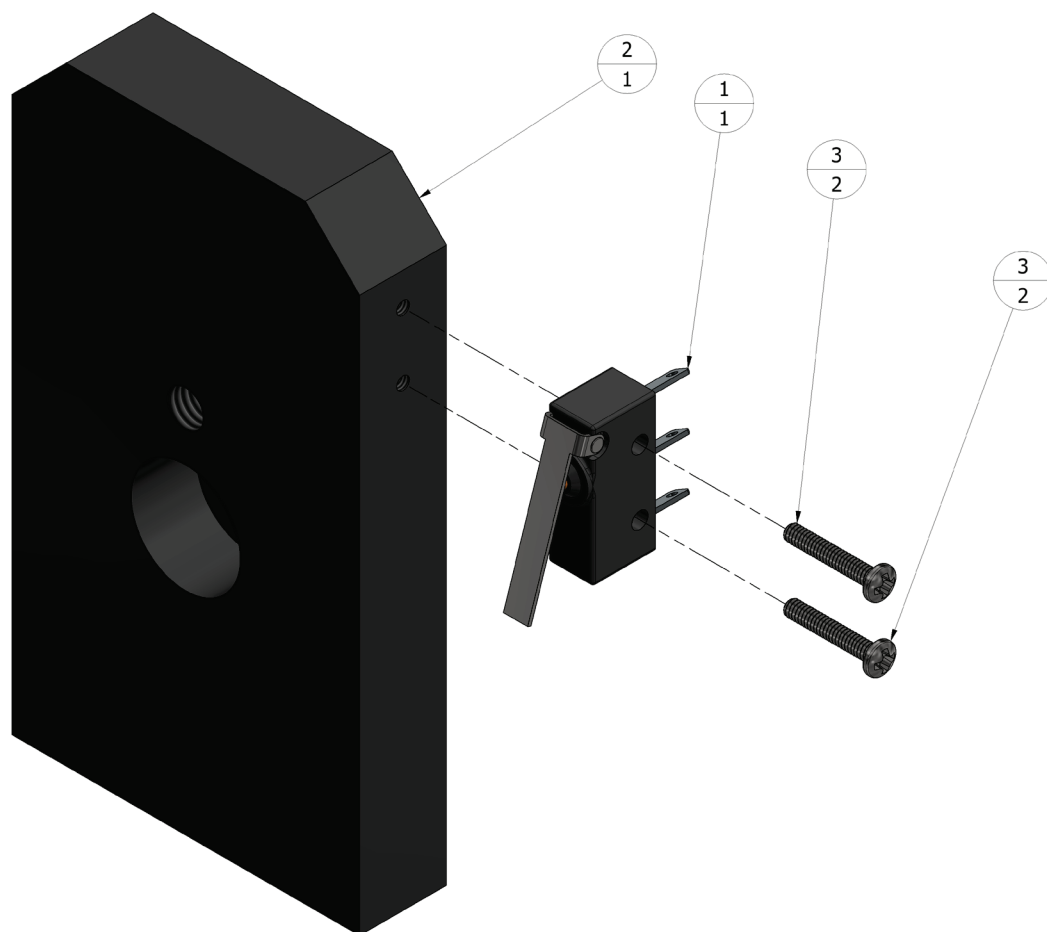
1.14 T-104/A – ASSY, BEARING SUPPORT PLATE (Parts List)



1.15 T-105/A – ASSY, RIGHT SIDE PLATE, PRO-TESTER (Parts ID)

PARTS LIST			
REF. NO	PART NO	DESCRIPTION	QTY
1	T-075	PLATE, RIGHT SIDE, END	1
2	T-104/A	ASSEMBLY, BEARING SUPPORT PLATE	1
3	NS-HARDWARE	NUT, HEX, M6 X 1 X 10mm WIDE X 6mm HIGH, NYLON-INSERT LOCK, ZINC PLATED STEEL	2
4	NS-HARDWARE	SCREW, M6 X 1 X 35mm LONG, SOCKET HEAD CAP, 18-8 STAINLESS STEEL	2
5	NS-HARDWARE	WASHER, M6 REGULAR SPLIT LOCK, 18-8 STAINLESS STEEL	2
6	NS-HARDWARE	WASHER, M6 FLAT, 6.4mm ID X 12mm OD X 1.6mm THICK, 18-8 STAINLESS STEEL	2

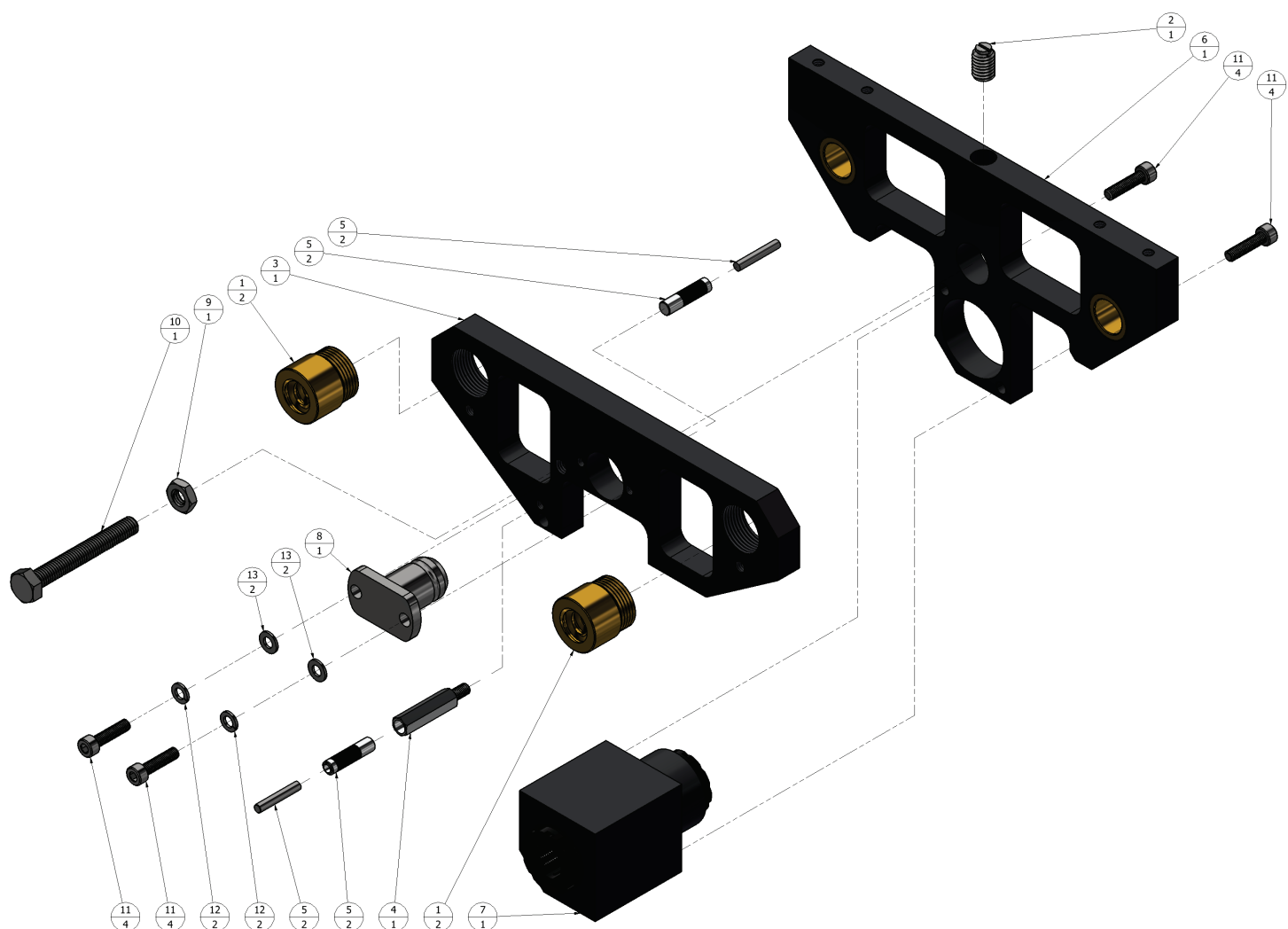
1.16 T-105/A – ASSY, RIGHT SIDE PLATE, PRO-TESTER (Parts List)



***1.17 T-106/A – ASSY, GUIDE SHAFT SUPPORT, PRO-TESTER
(Parts ID)***

PARTS LIST			
REF. NO	PART NO	DESCRIPTION	QTY
1	T-063	LIMIT SWITCH, SEALED, SPDT, 5A, .110 QC, LEVER	1
2	T-081	SUPPORT, GUIDE SHAFT, END	1
3	NS-HARDWARE	SCREW, 2-56 X 1/2" LONG, PHILLIPS PAN HEAD, 18-8 STAINLESS STEEL	2

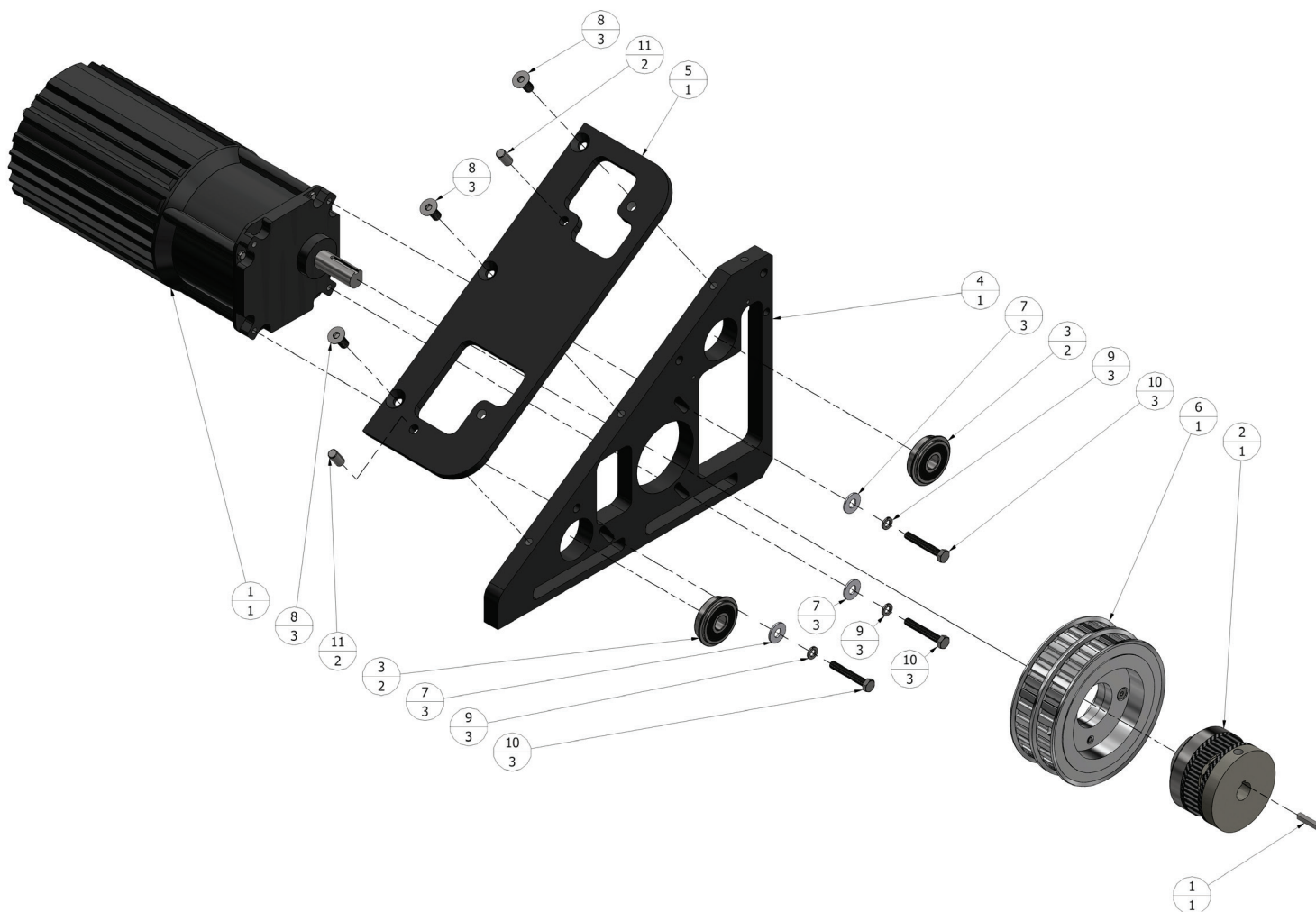
***1.18 T-106/A – ASSY, GUIDE SHAFT SUPPORT, PRO-TESTER
(Parts List)***



***1.19 T-107/A – ASSY, SHAFT CARRIAGE PLATE, PRO-TESTER
(Parts ID)***

PARTS LIST			
REF. NO	PART NO	DESCRIPTION	QTY
1	T-058	NUT, 5/8" X .20" LEAD, BRONZE, GRIP DRIVE	2
2	T-064	PLUNGER, BALL, 3/8"-16 X .625" LONG, W/ LOCK, 18-8 STAINLESS STEEL	1
3	T-077	PLATE, CARRIAGE DRIVE, SCREW	1
4	T-077B	STANDOFF, SPRING PLUNGER, MODIFIED	1
5	T-077C	PLUNGER, SPRING, Ø.25" X 1.00" LONG BODY, EXTRA-LONG NOSE, 2011 ALUMINUM	2
6	T-078/B	PLATE, CARRIAGE SLAVE, SHAFT, W/ BUSHING	1
7	T-079/A	ASSEMBLY, LINEAR BEARING MOUNT HOUSING	1
8	T-084	POST, DRIVE PLATE, DETENT	1
9	NS-HARDWARE	NUT, HEX JAM, M8 X 1.25 X 13mm WIDE X 4mm HIGH, 18-8 STAINLESS STEEL	1
10	NS-HARDWARE	BOLT, M8 X 1.25 X 60mm LONG, HEX HEAD MACHINE, 18-8 STAINLESS STEEL	1
11	NS-HARDWARE	SCREW, M5 X 0.8 X 20mm LONG, SOCKET HEAD CAP, 18-8 STAINLESS STEEL	4
12	NS-HARDWARE	WASHER, M5 REGULAR SPLIT LOCK, 18-8 STAINLESS STEEL	2
13	NS-HARDWARE	WASHER, M5 FLAT, 5.3mm ID X 10mm OD X 1.0mm THICK, 18-8 STAINLESS STEEL	2

***1.20 T-107/A – ASSY, SHAFT CARRIAGE PLATE, PRO-TESTER
(Parts List)***



1.21 T-109/A – ASSY, MOTOR SUPPORT PLATE, PRO-TESTER
(Parts ID)

PARTS LIST			
REF. NO	PART NO	DESCRIPTION	QTY
1	T-055	MOTOR, 1/6 HP, VARIABLE SPEED, 60:1 GEAR RATIO, 230 VAC	1
2	T-061	TORQUE LIMITER, 1/2" BORE X 1-1/4" SHEEVE X 1/2" GRIP	1
3	T-062	BEARING, 10mm ID X 30mm OD X 9mm W, SEALED, W/ SNAP RING	2
4	T-076	PLATE, MOTOR SUPPORT, STANDOFF	1
5	T-085	SUPPORT, SAMPLE GRIP ASSY	1
6	T-108	ASSEMBLY, MAIN DRIVE PULLEY	1
7	NS-HARDWARE	WASHER, #10 TYPE B, REGULAR PATTERN, ZINC PLATED STEEL	3
8	NS-HARDWARE	SCREW, M6 X 1 X 14mm LONG, FLAT HEAD SOCKET CAP, 18-8 STAINLESS STEEL	3
9	NS-HARDWARE	WASHER, #10 REGULAR SPLIT LOCK, 18-8 STAINLESS STEEL	3
10	NS-HARDWARE	BOLT, 10-32 X 1-1/4" LONG, HEX HEAD MACHINE, 18-8 STAINLESS STEEL	3
11	NS-HARDWARE	PIN, DOWEL, 1/4" OD X 1/2" LONG, 416 HARDENED STAINLESS STEEL	2

***1.22 T-109/A – ASSY, MOTOR SUPPORT PLATE, PRO-TESTER
(Parts List)***