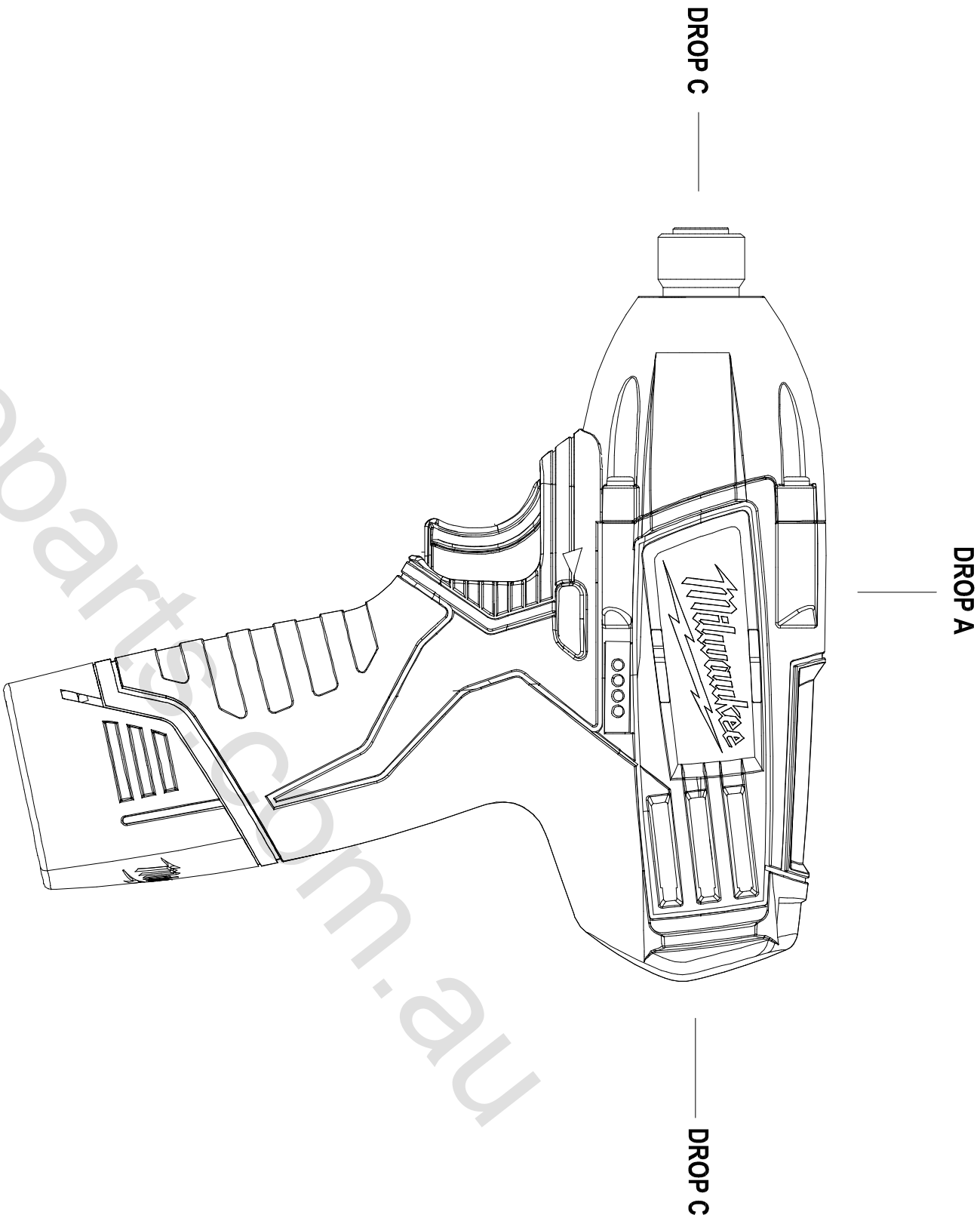




DROP ORIENTATION

- 1.TTI p/n and version - 018025001 01
- 2.TTI teamcenter version - 01B
- 3.Drawing name in repository - \MSCD018025001.PDF

DRAWING		UNLESS OTHERWISE SPECIFIED		FIRST ANGLE PROJECTION		PART NAME		IMPACT DRIVER		SCALE		DRAWING NUMBER		CURRENT REVISION	
SIZE	D	ALL DIMENSIONS ARE IN INCHES	UNLESS OTHERWISE SPECIFIED	FIRST ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED	MATERIAL	NUMBER	DATE	12/05/08	DATE	12/05/08	DATE	12/05/08	DATE	12/05/08
SCALE	1:1	UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED	FIRST ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED	DESCRIPTION	NUMBER	DATE	12/05/08	DATE	12/05/08	DATE	12/05/08	DATE	12/05/08
OPTIONAL GRAPHIC FILE	TO 201 MAX - 100 WPT SCALE	UNLESS OTHERWISE SPECIFIED	UNLESS OTHERWISE SPECIFIED	FIRST ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED	PART NUMBER	58-20-2403	DATE	12/05/08	DATE	12/05/08	DATE	12/05/08	DATE	12/05/08

B SHEET 2 OF 8

REVISION HISTORY	LETTER	DATE	DESCRIPTION
1	A	01/29/08	27793
2	B	05/30/08	28425
3	C	06/27/08	28523
4	D	07/14/08	28579
5	E	09/04/08	28887
6	F	12/05/08	29036
7	G	12/30/08	29156
8	H	05/05/09	29789
9	I	06/17/09	29839
10	TT101A	30901	32705
11	TT101B	122509	1206010

ITEM	METHOD P/N	COMPONENT	QTY	2450-9	2451-9	CI21W-0	SERVICE PART	SERVICE NUMBER	COLOR	FINISH	MATERIAL
1	31-50-2402	HANDLE SET INCLUDES LEFT/RIGHT HANDLE FUEL GAUGE AND FUEL GAUGE LEVEL	0	X	X	X	Y	200738001			PA6+G30KAS50) WITH OVERMOLD
2	- - - - -	LEFT HANDLE	1	Y	Y	Y	N	340322001	RED		PA6+G30KAS50) WITH OVERMOLD
3	- - - - -	RIGHT HANDLE	1	Y	Y	Y	N	517597001	RED		PA6+G30KAS50) WITH OVERMOLD
4	45-24-0105	BUTTON FORWARD REVERSE	1	Y	Y	Y	Y	517598001	BLACK		ABS GAR322
5	23-66-1105	ELECTRONICS MODULE ASSY	1	Y	Y	Y	Y	200739001			
6	06-82-2385	SCREW 2.6 X 14	5	Y	Y	Y	Y	661047001	BLACK	BALCK ZINC PLATED	LDW CARBON STEEL
7	23-30-0090	MOTOR SVC ASSY	0	X	X	X	Y	200740001			
8	14-50-2450	MOTOR	1	Y	Y	Y	N	740330001			
9	- - - - -	PINION	1	Y	Y	Y	N	610447015	NATURAL	APPARENT HARDNESS HRC31 MIN MICRO HARDENSS: HV(0.2) 550-700	FN-0205-155HT
10	44-66-0195	MOTOR MOUNT	1	Y	Y	Y	Y	517709001	NATURAL		A3EG10
11	45-88-0445	VASHER	2	Y	Y	Y	Y	670028001	NATURAL		
12	06-81-0010	SCREW M3X6	2	Y	Y	Y	Y	660221006	BLACK	BALCK ZINC PLATED	LDW CARBON STEEL
13	06-65-0075	PIN	2	Y	Y	Y	Y	672272001	NATURAL	HARDNESS: HRC 60±2	SJL2
14	- - - - -	VASHER	1	Y	Y	Y	N	680335054	NATURAL	HV(0.2) 400-500	65Mn
15	- - - - -	RING GEAR	1	Y	Y	Y	N	610449007	NATURAL	APPARENT HARDNESS HRC31 MIN MICRO HARDENSS: HV(0.2) 550-700	FN-0205-105HT
16	42-70-0055	CLIP	1	Y	Y	Y	Y	631542001	NATURAL	HV 350-450	SUS301
17	- - - - -	PLANET GEAR	8	Y	Y	Y	N	610448007	NATURAL	APPARENT HARDNESS HRC31 MIN MICRO HARDENSS: HV(0.2) 550-700	FN-0205-155HT
18	- - - - -	SUN GEAR	1	Y	Y	Y	N	610281029	NATURAL	APPARENT HARDNESS HRC31 MIN MICRO HARDENSS: HV(0.2) 550-700	FN-0205-155HT
19	10-20-0790	WARNING LABEL	1	Y	Y	Y	Y	940230076			
20	- - - - -	CARRIAGE	1	Y	Y	Y	N	671489002	NATURAL	APPARENT HARDNESS HRC31 MIN MICRO HARDENSS: HV(0.2) 550-700	FN-0205-155HT
21	- - - - -	REAR HOUSING	1	Y	Y	Y	N	517708001	NATURAL		A3EG10
22	- - - - -	BALL BEARING	1	Y	Y	Y	N	690415001			
23	- - - - -	CAM SHAFT	1	Y	Y	Y	N	671488012 DR 671488012	NATURAL	SURFACE HARDNESS: R15N 89-92 CORE HARDNESS: HRC35-45	8620 (671488022 MUST MATE WITH 671488015) (671488012 MUST MATE WITH 671488003)
24	- - - - -	BALL STEEL 3/16" DIA	2	Y	Y	Y	N	680015001			
25	- - - - -	COMPRESS SPRING	1	Y	Y	N	N	671588006	NATURAL		MUSIC WIRE
26	- - - - -	VASHER	1	N	Y	Y	N	671588015	NATURAL		MUSIC WIRE
27	- - - - -	BALL STEEL 3.0MM DIA	29	Y	Y	Y	N	680335056	NATURAL		SPCC
28	14-29-0190	GEAR ASSY	1	X	X	X	Y	670221001			
29	- - - - -	ANVIL	1	Y	N	N	N	671562015 DR 671562015	NATURAL	SURFACE HARDNESS: R15N 89-92 CORE HARDNESS: HRC35-45	8620 (Either 671562015 or 671562036)
30	- - - - -	BALL STEEL 3.5MM DIA	2	Y	N	N	N	690268001			
31	45-88-0455	VASHER	1	Y	Y	Y	Y	517868001	NATURAL		PA
32	06-65-1085	PIN	2	Y	Y	Y	Y	672254001	NATURAL	HRC58-62	GC-15
33	- - - - -	SLEEVE BEARING	1	Y	Y	Y	N	690248003	NATURAL	HRC30-35	SCM440 DR A1514140
34	- - - - -	O-RING	2	Y	Y	Y	N	560014001	BLACK		NBR
35	- - - - -	GEAR HOUSING	1	Y	Y	Y	N	641278001	EST-1101	PAINTED	A380
36	14-30-0005	GEARCASE ASSY	0	X	X	X	Y	200742001			
37	06-81-0005	SCREW M3.5X24	4	Y	Y	Y	Y	661190001	BLACK	BALCK ZINC PLATED	LDW CARBON STEEL
38	45-22-0015	SLEEVE AND ANVIL ASSY	0	X	-	-	Y	200743001			
39	45-22-0010	SLEEVE AND BALL ASSY	0	X	-	-	Y	200744001			
40	- - - - -	SPRING	1	Y	N	N	N	690261001	NATURAL		MUSIC WIRE
41	- - - - -	VASHER	1	Y	N	N	N	690266001			
42	- - - - -	RETAINING RING	1	Y	N	N	N	690258001	BLACK		SWC
43	- - - - -	SLEEVE	1	Y	N	N	N	690260013	BLACK	SYRFACE HARDNESS HV(0.2) 500 MIN	SCM415
44	- - - - -	LED LABEL	1	Y	Y	Y	N	941346002			
45	- - - - -	HAMMER	1	Y	Y	Y	N	671486001 DR 671486015	NATURAL	SURFACE HARDNESS: R15N 89-92 CORE HARDNESS: HRC35-45	8620 (671488022 MUST MATE WITH 671488015) (671488012 MUST MATE WITH 671488003)
46	12-20-2450	SERVICE NAMEPLATE	0	X	-	-	Y	940045271			
47	12-20-2452	FUEL-GAUGE LED ASSY	0	-	X	X	Y	940038107			
48	22-09-0075	FUEL-GAUGE LED ASSY	1	Y	Y	Y	N	290304001			
49	59-00-0410	FIRMWARE IMPACT DRIVER	0	X	X	X	N	- - - - -			
50	42-06-0301	ANVIL 3/8" SQUARE DRIVER ASSEMBLY	0	-	X	-	Y	200986002			
51	- - - - -	ANVIL 3/8" SQUARE	1	N	Y	N	N	671566020	NATURAL	SURFACE HARDNESS: R15N 89-92 CORE HARDNESS: HRC35-45	8620
52	- - - - -	RETAINING RING	1	N	Y	N	Y	692519001		HARDNESS PER ES 12-1000; TEMPER PER ES 12-3000; HRC 47-52	A1514140
53	- - - - -	ANVIL 1/2" SQUARE DRIVER ASSEMBLY	0	-	-	X	Y	200987001			
54	- - - - -	ANVIL (1/2)	1	N	N	Y	N	671566028	NATURAL	SURFACE HARDNESS: R15N 89-92 CORE HARDNESS: HRC35-45	8620
55	- - - - -	DETENT PIN	1	N	N	Y	Y	672448001			A1514140
56	- - - - -	DETENT SPRING	1	N	N	Y	Y	691326001	BLACK		
57	34-40-0475	RUBBER RING	1	N	Y	N	Y	562388001	BLACK		NBR/75H10

ITEM	QTY	PART NO.	DESCRIPTION	REMARKS
1A	4	EH6611-01	LED, B0209R-SR7SB, BESTEK, SMD, 32mm x 24mm ,RED	FUEL GAUGE LED1, LED2 LED3, LED4
2A	1	SAS024-01	STRANDED WIRE ASSEMBLY, 5 CORE UL 1571, AWG#8 TINNED HUSING, 10mm, 5 WAYS, P/N: A1001-H-5#2	FUEL GAUGE CONNECTOR
3A	1	EM6211	PCB, 16MM THK, FUEL GAUGE BOARD, TIN PLATED, 1 OZ COPPER, DOUBLE SIDE, 94Y0	LED BOARD
4A	1	ESR60910	FIBRE TUBE, 3MM DIA, 350mm LENGTH, COLOR: WHITE	

					
DRILLING SIZE		DRILLING SIZE		DRILLING SIZE	
ALL INFORMATION IS TO BE KEPT CONFIDENTIAL AND NOT REPRODUCED WITHOUT WRITTEN PERMISSION OF THE COMPANY		ALL INFORMATION IS TO BE KEPT CONFIDENTIAL AND NOT REPRODUCED WITHOUT WRITTEN PERMISSION OF THE COMPANY		ALL INFORMATION IS TO BE KEPT CONFIDENTIAL AND NOT REPRODUCED WITHOUT WRITTEN PERMISSION OF THE COMPANY	
IMPACT DRIVER		IMPACT DRIVER		IMPACT DRIVER	
PART NAME		PART NAME		PART NAME	
MATERIAL		MATERIAL		MATERIAL	
NUMBER		NUMBER		NUMBER	
DATE		DATE		DATE	
BY		BY		BY	
PART NUMBER		PART NUMBER		PART NUMBER	
58-20-2403		58-20-2403		58-20-2403	
ORDER BY		ORDER BY		ORDER BY	
PHNG		PHNG		PHNG	
INVENTORY		INVENTORY		INVENTORY	
CURRENT REVISION		CURRENT REVISION		CURRENT REVISION	
1		1		1	
ETL		ETL		ETL	
29399		29399		29399	
DATE		DATE		DATE	
6/07/2009		6/07/2009		6/07/2009	

(B)

SHEET 4 OF 8

1. TTI pin and version - 018025001 01
2. TTI teamcenter version - 01B
3. Drawing name in repository - MSCD018025001.PDF

REVISION HISTORY	LETTER	A	B	C	D	E	F	G	H	I	TT101A	TT101B					
	ECO NO.	27793	28425	28523	28579	28807	29036	29156	29709	29939	30901	32705					
	DATE	01/29/08	05/30/08	06/27/08	07/14/08	09/04/08	12/05/08	12/30/08	05/05/09	6/17/09	12/29/09	12/08/10					



DRAWING FILE		ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED DATE 08-01-2001 BY 60322 (U.S. GOVERNMENT PRINTING OFFICE: 2001-500-000)		PART NAME		IMPACT DRIVER		SCALE 1/4" = 1"	QUANTITY 8	ORDER NUMBER 8	CURRENT REVISION 0	DATE 12/29/00
				WHEEL		NUT						
			PART NUMBER		58-25-2403		PART NUMBER 58-25-2403		ORDER NUMBER 8		CURRENT REVISION 0	

1. ITI p/n and version - 018025001 01
2. ITI teamcenter version - 01B
3. Drawing name In repository - MSCD018025001.PDF

IMPACT DRIVER BILM OF MATERIAL

ITEM	PART NO.	QTY	DESCRIPTION	REMARKS
1	41ZFCW0501000	1	CONNECTOR SHROUDED HEADER,SMD, 5 PIN, PITCH 1.0mm, UL 94V0	CNS
2	3LC5E54M00W60B4ANM	1	LED, DfA, 5mm, WHITE LIGHT-EMITTING, 8000MCD PLUS	LED1
3	41RCC0220JW2500D	1	RESISTOR, 220mm±5%, 1/4W, SMD 1206	R27
4	41RCC0511JW25000D	1	RESISTOR, 510 Dmm±5%, 1/4W, SMD 1206	R28
5	41RCC0203JW1000B	1	RESISTOR, 20K, 5%, 0.1W, SMD 0603	R35
6	41RCC0101JW1250C	1	RESISTOR, 100R, 5%, 1/8W, SMD 0805	R0
7	41RCC0104JW1000B	2	RESISTOR, 100K, 5%, 0.1W, SMD 0603	R33, R34
8	41RCC0103JW1000B	11	RESISTOR, 10K, 5%, 0.1W, SMD 0603	R6,R7,R8,R9,R10,R11,R12,R17,R29,R16,R36
9	41RCC0102J00W1B	1	RESISTOR, 1K, 5%, 0.1W, SMD 0603	R25
10	41RCC0222F W1000B	1	RESISTOR, 2.2K, 1%, 0.1W, SMD 0603	R5
11	41RCC0103F W1000B	1	RESISTOR, 10K, 1%, 0.1W, SMD 0603	R2
12	41RCC0203F W1000B	1	RESISTOR, 20K, 1%, 0.1W, SMD 0603	R1
13	41RCC0105JW1000B	1	RESISTOR, 1M, 5%, 0.1W, SMD 0603	R4
14	41RCC0512JW1000B	1	RESISTOR, 5.1K, 5%, 0.1W, SMD 0603	R22
15	41RCC0511JW1000B	4	RESISTOR, 510R, 5%, 0.1W, SMD 0603	R18,R19,R20,R21
16	41RCC0513JW1000B	1	RESISTOR, 51K, 5%, 0.1W, SMD 0603	R23
17	41RCC0333JW1000B	1	RESISTOR, 33K, 5%, 0.1W, SMD 0603	R24
18	41RCC0100JW1000B	1	RESISTOR, 10R, 5%, 0.1W, SMD 0603	R37
19	41CCC0102K500X0G	1	CAPACITOR, 1µF, 50V, 10%, SMD 0603, X7R	C1
20	41CCC0103K500X0G	3	CAPACITOR, 0.01µF, 50V, 10%, SMD 0603, X7R	C7,C13,C8
21	41CCC0104K50VX0G	9	CAPACITOR, 0.01µF, 50V, 10%, SMD 0603, X7R	C2,C3,C9,C10,C12,C14,C15,C16,C17
22	41CCA0226K25000B	2	CAPACITOR,TANTALUM, 22µF, 20V, 10% ICASE 'B' 3.5mmX2.8MM	C5,C6
23	41CCC0106K160X0J	1	CAPACITOR, 10µF, 16V, 10%, SMD 1206	C4
24	410CP000BC847C00	5	NPN TRANSISTOR, BC847C, SOT-23, 45V, 0.1A	Q6,Q7,Q8,Q9,Q12
25	410CN000CB57C00	3	PNP TRANSISTOR, BC847C, SOT-23, 45V, 0.1A	Q3,Q4,Q5
26	41UUCH775501000	1	IC-VOLTAGE REGULATOR OUTPUT VOLTAGE=5V, -40C~+85C 250mW SOT-89±3%, LDD DETAIL INF.D: H17550-1#	U2
27(1)	410CNC303N03LA00	1	MOSFET, IPD03N03LA G, IS 90A, RDS 3.2m Dmm, T0252-3	Q1
27(2)		0	MOSFET, STD150NH02L Vds: 24V, IDS: 150A, Rds: 35m OHM, CLIP PAK	Q1(FCR SECOND SOURCE)
28	41DCP551V300A5	2	RB551V-30, SCHOTTKY DIODE, SOD-323	D2,D3
29	41DCKL141480A2	2	DIODE, LL4148, SOD-80, 0.2A , 75V	D4, D7AND USED FOR DS
30	41DCW55C20V0W5	0	DIODE, 20V, SOD-80	D6
31	41DCPS15L30C0A	1	DIODE, STPS15L30CB, If: 2X75A, VRWM 30V, VF: 0.39V, 150C, DPAK	D1
32	41UCATT1BGA-FEVO	1	MCU, ATT1BGA-FEV0	U1
33(1)	410CNC30N03LSG00	1	MOSFET, BSC020N025S G, ID 100A, RDS(ON) 2.0m Dmm, T0SDN-8	Q2
33(2)		0	MOSFET, RJK0322PFB ID=35A RDS(ON)=3.6mΩ VDS=30V, LFPAK	Q2(FCR SECOND SOURCE)
34	41PP000039A0	1	UL 94V0 130DEGC 76.3X30.75X1.6mm MAIN BOARD, TIN PLATED 1 OZ COPPER, DOUBLE SIDE	MAIN BOARD
35	41WK24R000600E44	1	WIRE, UL3266, 24AWG, 60mm, 4X8A, RED	FOR PCBA 'B-'
36	41WK24W000700E44	1	WIRE, UL3266, 24AWG, 70mm, 4X8A, WHITE	FOR PCBA 'B-'
37	41WK18W000121E46	1	WIRE, UL3266, 18AWG, 120mm, 4X8A, WHITE	FOR PCBA 'SWB'
38	41WK18L000800E44	1	WIRE, UL3266, 18AWG, 80mm, 4X8A, BLACK	FOR PCBA 'B-'
39	41WK18R000550E46	1	WIRE, UL3266, 18AWG, 55mm, 4X8A, RED	FOR PCBA 'SWA'
40	45LSJ6000P00	2G	CADTING, KCC SJ6000P CONFORMAL COATING	FOR PCBA
41	45L0L5000001	2G	YELLOW GLUE, L-500	FOR FIX WIRES ON PCB

PCB FABRICATION SPECIFICATIONS:

1. QUALIFICATION AND PERFORMANCE SPECIFICATIONS SHALL MEET OR EXCEED THE LATEST REVISION OF IPC-6012.1
2. BOARD QUALITY SHALL MEET OR EXCEED THE LATEST REVISION OF ANSI/IPS-A-600, CLASS 2
3. BOARD TYPE: 2
4. MATERIAL: FR4 EPOXY GLASS(REFERENCE THE LATEST REVISION OF IPC-4101)
5. COPPER: 1 OZ. FINISHED DOUBLE SIDED
6. SOLDER MASK: OVER BARE COPPER TRANSPARENT GREEN
7. SILKSCREEN: WHITE EPOXY INK
8. INDIVIDUAL BOARDS TO BE MARKED WITH THE FOLLOWING INFORMATION ON THE SILKSCREEN LAYER:

-REVISION LEVEL

-UL DESIGNATION

-DATE CODE ("WVVV" WEEK/YEAR FORMAT)

9. BOARD TO BE ELECTRONICALLY TESTED
10. SOLDERING SHALL MEET OR EXCEED THE LATEST REVISION OF ANSI/J-STD-001

PCB ASSEMBLY NOTES:

- A. PCB MUST BE FULLY SEATED INTO HOUSING.
- B. HANDLING AND PROCESSING FOR ELECTROSTATIC SENSITIVE DEVICES PER ENGINEERING STANDARD ES 13-13
- C. ASSEMBLY WORKMANSHIP SHALL MEET OR EXCEED THE LATEST REVISION OF IPC-A-610
- D. ANY REWORK TO THE ASSEMBLY SHALL MEET OR EXCEED THE LATEST REVISION OF IPC-7711
- E. ANY REPAIR OR MODIFICATION SHALL MEET OR EXCEED THE LATEST REVISION OF IPC-7727
- F. NO WIRES TO BE PINCHED BY SCREW BOSSEDS OR HOUSING WALLS
- G. FIBERS LEEVE TO BE PLACED ON MOTOR LEADS AND FUEL GAGE LEADS
- H. USE OF OPTIONAL PLASTIC WIRE TIES TO ASSIST IN PROPERLY ROUTING THE WIRES IS ACCEPTABLE
- I. THE PCB ASSEMBLY TO BE CONFORMAL COATED ON BOTH SIDES ONCE ALL TESTS HAVE PASSED.
- J. COATING MATERIAL:KCC SJ6000P ACRYLIC COATING PER WI-1779. (H)
- K. CURED THICKNESS TO BE .001" MINIMUM.

WIRE AND TERMINAL ASSEMBLY NOTES:

1. CRIMP:

ALL WIRE TO BE UL, CSA LISTED
VOLTAGE RATING: 30V MIN
TEMPERATURE RATING: 0°C -105°C MAX

2. WIRE

NO STRANDS TO BE BROKEN IN CRIMP
CRIMP WIRE PER WIRE TERMINAL CRIMP STANDARD ES 13-15
STRIP CORD LENGTHS PER ENGINEERING STANDARD ES 13-11
TIN WIRE ENDS PER ENGINEERING STANDARD ES 13-12
BARE WIRE MUST NOT BE EXPOSED, SHRINK TUBING MUST COVER ALL BARE WIRES
CRIMP MUST SURVIVE A 16 L.S.MIN. FULL OFF FORCE WHEN PULLED IN LINE WITH THE WIRE

(B) SHEET 7 OF 8

1. TTI pth and version - 018025001 01
2. TTI beamcenter version - 01B
3. Drawing name in repository - WSC0018025001.PDF

BRWING	SIZE	ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED	THIRD ANGLE PROJECTION	PART NAME	IMPACT DRIVER	SCALE	310	BRWING NUMBER	CURRENT REVISION
CS	1/8"	ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED	THIRD ANGLE PROJECTION	MATERIAL	NUMBER	DATE	12/05/08	8	TT 0A
CS	1/8"	ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED	THIRD ANGLE PROJECTION	REVISION	REVISION	DATE	12/05/08	8	TT 0A
CS	1/8"	ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED	THIRD ANGLE PROJECTION	REVISION	REVISION	DATE	12/05/08	8	TT 0A

M

L

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GERMERA ELECTRICAL SPECIFICATIONS:

DESCRIPTION	REQUIREMENT
MOTOR TYPE/ VOL TAGE	DC 12VOLTS
OPERATION TEMPERATURE	-10~60 C

FUEL GAGE REQUIREMENTS

TEST	REQUIREMENT	PROCEDURE
FUEL GAUGE AND OPERATION VOL TAGE RANGE	SEE DRAWING 59-00-0180	SEE DRAWING 59-00-0180

WORK LIGHT LED REQUIREMENTS

TEST	REQUIREMENT	PROCEDURE
LED INTENSITY	50mw MINIMUM WHITE LED, LED TO TURN ON WHEN TRIGGER IS ACTIVATED, BUT BEFORE MOTOR ROTATES	N/A
LED ACTIVATION	WILL STAY ON AS LONG AS TRIGGER IS ACTIVATED	N/A

SWITCH

MANUFACTUREER	CAPAX
MODELNO.	61-36
PART NUMBER	20.406.110
UL APPROVED	YES
VOLTS	24
RATING	15A
TRIGGER COLOR	BLACK
SOFT TOUCH TRIGGER OVERMOLD	NO
REVERSING MODULE	YES
POTENTIOMETER LEADS	3-26 AWG@43±2mm
MISC. WIRES	1-18 AWG@30±2mm

DC SWITCH/POBA SUBSYSTEM PERFORMANCE REQUIREMENTS

TEST	REQUIREMENT	PREOCEDURE
LOCKED ROTOR	NO FAULTURES BEFORE 30 SECONDS	W1-1577 SECTION J&H
OVERLOAD IN BYPASS	35 AMP MIN. BEFORE FAILURE	W1-1577 SECTION M
CONTAMINATION TEST	NO FAILURE	W1-0568
TRIGGER ATTACHEMENT TEST	NO FAILURE ON SNAP TEST. PULL-OFF FORCE >10 LBS	W1-1577 SECTION P
LOCKED ROTOR CYCLE LIFE TEST AT MAX. DUTY CYCLE	1000 CYCLES MINIMUM	W1-1577 SECTION C

POBA CHARACTERISTICS

TEST	REQUIREMENT	PREOCEDURE
VOLTAGE SHUT-OFF	AFTER VOLTAGE SHUT OFF, THE TOOL CAN NOT TURN ON AGAIN UNTIL USER HAS RELEASED THE TRIGGER SWITCH COMPLETELY. TEMPERATURE OF BATTERY TO BE MONITORED. TEMPERATURE CUT OFF VALUES WILL BE 70 C AFTER TEMPERATURE SHUT OFF. THE TOOL CANNOT TURN ON AGAIN UNTIL AFTER USER HAS RELEASE THE TRIGGER SWITCH COMPLETELY.	W1-XXXX N/A
ELECTROSTATIC DISCHARGE	4KV CONTACT DISCHARGE, 8KV AIR DISCHARGE. THE DYNAMIC BRAKE MUST BE ABLE TO STOP ROTATION OF THE TOOL BIT WITHIN 360 DEGREES OF ROTATION.	TEST PER ENG1000-4-2 N/A

LUBRICATION SPECIFICATIONS

ITEM	DESCRIPTION	PART MUNBER	TYPE
1	GREASE FOR GEAR BOX AND MECHANISM	901446001	RTJ-208

TORQUE SPECIFICATIONS (PER ES 10-8)

ITEM	DESCRIPTION	PART MUNBER	SEAT TORQUE (KGF-CM)	MIN. RECHECK (KGF-CM)
1	SCREW M3.5X24 FOR GEAR CASE	661190001	11~14	5
2	SCREW M2.6X14 FOR HANDLE HOUSING	661047001	2~4	2
3	SCREW M3X6 FOR MOTOR MOUNTING	660211006	6~12	4

- 1.TTI pin and version - 018025001 01
- 2.TTI teamcenter version - 01B
- 3.Drawing name in repository - MSCD018025001.PDF

DRAWING SIZE D	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN INCHES FRACTIONS SHALL BE IN 16THS DECIMALS SHALL BE TO .001 DIMENSIONS ARE TO BE MAINTAINED UNLESS OTHERWISE SPECIFIED TOLERANCES ARE TO BE MAINTAINED UNLESS OTHERWISE SPECIFIED	HARD ANGLE PROJECTION	PART NAME	IMPACT DRIVER	SCALE 3:10	DRAWING NUMBER 8	CURRENT REVISION 1	LETTER M	DATE 12/29/08



REVISION HISTORY	LETTER	DATE	DESCRIPTION
1	A	01/29/08	27793
2	B	05/30/08	28425
3	C	06/27/08	28523
4	D	07/14/08	28579
5	E	09/04/08	28887
6	F	12/05/08	29036
7	G	12/30/08	29156
8	H	05/05/09	29789
9	I	06/17/09	29838
10	TT101A	30901	122509
11	TT101B	32705	1206010