

- ◆ 使用後之注意事項
收藏及保養：當起子長時間不使用時，請拔掉電源供應器插頭及起子頭，將碳刷蓋打開以噴槍清除內部碳粉，並將外殼擦拭清潔後，妥善保管於乾燥、無日光照射、無塵的地方，而起子頭則以防鏽油塗抹保存。為了確保起子能正常運轉，請定期檢查與保養。
- ◆ 簡易故障排除
當起子不能正常運轉時，請按下述內容檢查。若均屬正常則請勿任意分解拆卸，速與本公司代理商接洽。
- ◆ 起子不轉動：
 - 電源供應器無輸出
 - 檢查電源線插頭是否插妥，及輸出插座端子 NO.1（－）、端子 NO.4（＋）間有無 30VDC。若無輸出，則請更換電源供應器。或檢查 5P-5P/6P-6P 起子側插頭內部是否斷線。
 - 保險絲是否斷路。注意：更換保險絲時，請將電源線插頭拔掉。
 - 檢查碳刷是否破損、碳刷移動不順或碳刷已磨耗使得碳刷與轉子換向片接觸壓力減少導致起子不轉動或轉動不順。
檢查方法：打開碳刷蓋，用不導電之絕緣棒輕輕壓迫碳刷，若起子恢復旋轉，表示碳刷被卡住或已磨耗至使用限度，請清除碳刷通道或更換整組碳刷。
 - 檢查啟動開關是否失去功能。當按下押扣板時聽不到“喀”聲，表示開關已失去功能，請更換新品。（檢查時請在安靜的場所執行之）
- ◆ 起子運轉不順：
 - 電源供應器通電後若馬上啟動起子，會出現運轉不順。請稍候 3～5 秒後再啟動，即可恢復正常。
 - 若正轉啟動時馬達僅瞬間轉動，可嘗試反轉或用手旋轉起子轉動，當出現一聲“喀”後，再啟動正轉，即可恢復正常。
 - 長時間使用導致換向片磨損。請立即更換新品。（本項請由技術人員處理）
- ◆ 起子頭容易脫落或有晃動現象：
 - 起子頭是否與附屬品之規格相同，否則請更換同規格之起子頭。
 - 起子頭若容易晃動，請取出起子頭旋轉 60 度或 180 度後，重新插入即可。
- ◆ 達到預設扭力值時，起子不會自動停止：
 - 扭力設定太高，造成螺絲滑牙，致使離合器不會跳脫。請將扭力設定值降低至不會滑牙之適當值。
 - 起子馬達扭力不足，造成離合器無法脫離。請更換較大馬力之扭力起子，以防止手腕受扭轉。
 - 起子頭尖端尺寸與螺絲頭凹槽尺寸不合造成打滑。請更換合適之起子頭。
 - 檢查連接線起子側插頭端子 5P(NO. 1, 4)、6P(NO. 2, 3, 4)是否斷路。若是請更換新線或僅更換插頭部分。（5P 插頭型號 2G2021，6P 插頭型號 2G2022）。
 - 煞車迴路故障或煞車檢知開關移位，此刻會出現離合器連續跳脫的“喀”聲。（本項請由技術人員處理）
- ◆ 保證
本機經經銷商蓋章確認銷售日期後提供一年之免費維修服務。唯有下述之情形者，本公司得酌收材料工本費。
 - ◆ 自然磨損之零件：如碳刷、起子頭、電源線、繼電器，外觀自然污舊零件等。
 - ◆ 未按規定電源電壓使用者。
 - ◆ 使用不當或自行拆修者。
 - ◆ 超過保證期間或未出示本操作手冊者。

經 確 銷 認 商 章	
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◎節約能源，搶救地球，單張手冊服務(A-6)
◎規格及設計會因改良而變更，恕不另行通知

序號：_____

好幫手工業級電動起子操作手冊

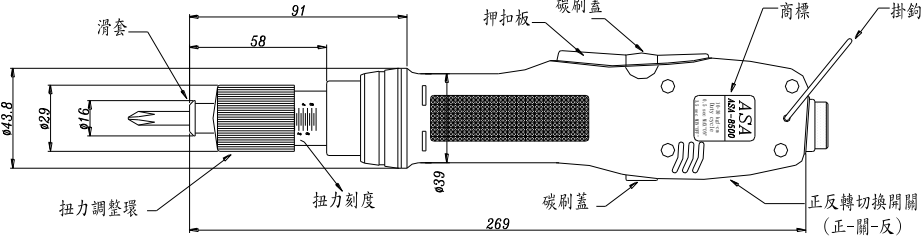
〈全自動大扭力篇－低壓直流馬達驅動型附電源供應器系列〉

- ◆ 感謝惠顧
感謝選用本公司電動起子，機件輕巧，運轉有力。為了能使本機發揮最大功能及延長使用壽命，操作前請詳閱本操作手冊。
- ◆ 特點
 - ◆ 本起子專為需要精準扭力的鎖螺絲作業而設計，可應用的螺絲鎖付範圍諸如家電、電腦、傢俱、汽車、機械設備等產品的裝配作業。
 - ◆ 低震動、低噪音，符合環保要求。
 - ◆ 採用低壓電子式煞車迴路，扭力精準控制，故障率低，壽命長。
 - ◆ 採用低壓直流馬達驅動，安全不怕觸電。
 - ◆ 起子、控制器採分離式設計，維修費用低，並可提高良品的互換率。
 - ◆ 搭配直接插入式之交換式電源供應器，具穩壓迴路，使驅動扭力更趨準確，馬達壽命更長。
 - ◆ 90 度彎頭轉接頭，可以輕便地與起子本體結合，運用在狹小的空間（>60mm），操控自如。
 - ◆ 可以配合槍型握把的組合，提高起子操作的方便性及安全性。
 - ◆ 外型配合人體工學設計，可防止工作疲勞，提高生產效率。

規格

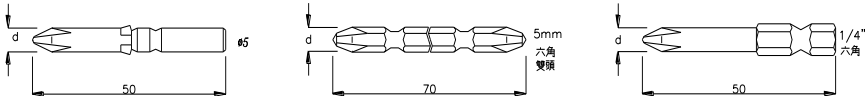
機種名		ASA-7500	ASA-7500PS	ASA-8500	ASA-8500PS	ASA-9000	ASA-9000PS
工作電壓		30VDC					
輸出扭力範圍 Kg·cm / 1bf·in		7-30 / 6.1-26.0		12.0-40.0 / 10.4-34.7		20.0-50.0/17.3-43.4	
扭力精度		±3%					
無載轉速 rpm		1000		750		550	
扭力調整		無段式					
適用螺絲	機械牙φ徑 mm / in	3.0-5.0 / 0.12-0.20		3.5-5.5 / 0.14-0.22		4.0~6.0/0.16~0.24	
	自攻牙φ徑 mm / in	2.6-4.0 / 0.10-0.16		3.0-4.5 / 0.12-0.18		3.5~5.0/0.14~0.20	
重量 g / 1b		670 / 1.47, 740/1.6 (PS)					
長度 mm / in		265 / 10.4, 269/10.6 (PS)					
適用起子頭規格		5φ/5mm 六角對邊、1/4"六角對邊					
消耗功率 W		60					
適合電源供應器		APL-301B, APM-302C					
離合器跳脫		扭力到達時僅一次跳脫					

□外觀



- ☐附屬品
- 本產品內附 5P 或 6P 電源線一條，AC 電源線一條，碳刷一對及起子頭二支。

- ☐起子頭（任一）



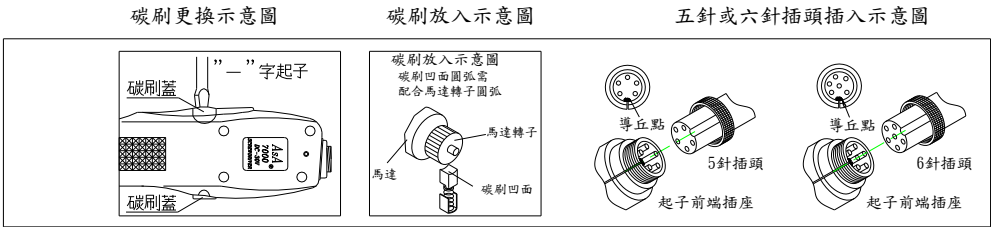
起子頭規格									適用 機種
5φ			5mm 六角(PS 系列專用)			1/4"六角			
前端 番號	前 端 寬度 d	P#	前端 番號	前 端 寬度 d	P#	前端 番號	前 端 寬度 d	P#	
#2	5φ	7W3864	#2	5mm	7W5868	#2	φ 4.5	7W6764	ASA-7500/PS
#2	5φ	7W3864	#2	5mm	7W5868	#2	φ 6.0	7W6964	
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						#2	φ 6.0	7W6964	ASA-9000/PS

- ☐電源供應器（任選品）

型號	體積 mm			工作電壓 (AC)	輸出電壓 (DC)	重量 (g/lb)	安規認證	適用機種		包裝型態
	長	寬	高							
APM-302C	172	84	46	100-240V	20-30V 6P	380	CB,CE,UL(cUL),ROHS, REACH,KC,FCC,UKCA	ASA-7500	ASA-7500PS	組配包裝
APL-301B	270	130	66	100-240V	25-30V 5P	1100	CB,CE,ROHS REACH	ASA-8500 ASA-9000	ASA-8500PS ASA-9000PS	個別包裝

- APM302C 為交換式電源供應器，輕薄短小，耗電少具穩壓效果及軟性啟動功能。
- 固定用配件：鎖式紮帶 2 條、雙面膠墊 2 片。
- ◆ 使用前之確認注意事項
- ◆ 確認前，請將起子正反轉開關切到中間“關”的位置。
- ◆ 確認插座的電壓源及接地狀況：請插在符合起子或電源供應器標籤上指示的工作電壓操作，以避免燒毀。又起子本身附有接地導線，使用時請插在附有接地裝置的插座上，不但可保障漏電安全，並可排泄起子因操作磨擦所產生的靜電及雜訊干擾。
- ◆ 確認適用的扭力範圍：配合所需扭力值選擇適合的起子型號；起子應避免在最高的定格扭力值下長期操作，可延長起子壽命。（建議最佳的操作範圍在扭力刻劃的 1-8 之間）
- ◆ 確認起子本體的完整性：若發現電源線有割傷或破裂現象，應立刻拔出插頭，更換新品，以避免觸電或造成短路而引起火災。
- ◆ 確認作業環境：為了安全起見，請勿於高溫、潮溼或靠近易燃物的作業現場使用，並防止電源線接近會割傷或融化電源線的工具或設備，以避免危險的發生。
- ◆ 五針或六針插頭插入起子或電源供應器插座時，它有方向性，必須對準插座內之導丘點後，方可用力插入，然後以旋鈕牢牢地固定在起子或電源供應器上。如此會減少因拉扯而斷線的發生。（參考本頁右下圖）
- ◆ 電源線插入或拔離插座時，須手持插頭拔出，切勿直接拉扯電源線拔出。

- ◆ 操作方法及注意事項
- ◆ 被鎖物固定：操作前，先確認所需扭力值，並參考“扭力設定”項敘述，將起子設定至適合之扭力，再確認被鎖物已被強制固定，方可進行操作，以避免鎖螺絲同時帶動被鎖物旋轉而導致人員傷害。
- ◆ 鎖、退螺絲操作：首先設定正反轉開關位置。鎖螺絲時，將正反轉開關向下設定在正轉（FOR）的位置；退螺絲時，向上設定在反轉（REV）的位置，然後按下押扣板或將起子垂直往下壓（PS 機型）。注意：起子運轉中切勿任意變換起子之轉向，必須放鬆押扣板或放鬆下壓力量（PS 機型），待馬達完全停止後方可切換。
- ◆ 扭力設定：藉著旋轉扭力調整環來設定起子的扭力大小；順時針往內旋轉會使輸出的扭力增大，逆時針往外旋轉會使輸出的扭力減小。請勿在扭力調整環鎖或退到底之位置下操作。
注意：刻度環上的刻度值僅供設定記錄用，並不代表輸出的扭力值，正確的輸出扭力值必須藉由扭力測試機或扭力扳手反覆測試而得。
為防止已設定之扭力值被移動，本公司備有扭力護套（選購品）可罩住扭力調整環而不會被任意觸動。
- ◆ 起子頭插入：用姆指把滑套往內推，將合適的起子頭插入；當放開滑套時，起子頭即被自動卡住。
注意：切勿以敲擊或硬拉的方式裝卸。
注意：若是插入下壓啟動（PS）機型時，請將正反轉開關切到中間“關”的位置並輕輕地插入起子頭，以避免用力插入時誤觸開關而使馬達旋轉。
- ◆ 本體固定：使用時應將起子懸掛（如以彈吊車懸掛等）或以支臂架固定，以避免手臂傷害或起子被搖晃碰撞、拉扯，所造成的外殼破裂或電源線斷裂。
- ◆ 啟動、停止：ASA7500～9000 為槓桿啟動式，按住押扣板馬達即開始運轉，放開押扣板則停止運轉；ASA7500PS～9000PS 為下壓啟動式，將起子垂直往下壓藉由起子頭往上頂而啟動開關，馬達即開始運轉。反之放鬆下壓力量，起子頭及啟動開關即反彈至原來位置，馬達即停止運轉。
- ◆ 扭力達到時：本起子內部設有離合器裝置，當正轉鎖螺絲時，扭力達到預設之扭力值時，離合器裝置即自動跳脫，同時聽到一聲“喀”聲，此時即使不放開押扣板或放鬆下壓力量，馬達電源也會自動被切斷。倘若扭力到達時離合器無法跳脫，請立刻將正反轉開關切到中間“關”的位置以停止馬達運轉，以避免手腕受傷。
注意：鎖付過程中，請緊握起子，以避免因離合器跳脫瞬間將起子向上反彈而使起子頭脫離螺絲頭凹槽，造成螺絲頭凹槽的破壞。
- ◆ 退出螺絲時：當欲反轉退出已鎖緊之螺絲時，若在同一扭力設定值無法退出時，請將扭力設定值調高，俟退出螺絲後再還原至原來設定位置。請記住扭力調整環轉動時之累計“喀”聲，以方便還原設定。
注意：在退出螺絲時，若發現已鎖緊螺絲扭力大於起子輸出扭力，致使離合器無法跳脫造成操作手掌被扭住時，必須立刻將正反轉開關切到中間“關”的位置，切斷馬達電源，以免造成傷害。
- ◆ 操作頻率：本電動起子建議操作頻率為 1”/4”(ON/OFF)秒，鎖付螺絲總數為 7000 顆/8 小時切勿超過建議操作頻率，以免造成電動起子內部零件嚴重損毀。若操作頻率超過每天 8 小時，請採用 2 支電動起子交替使用，方可確保起子使用壽命。
- ◆ 過載操作：若發現握把溫度急速上昇，或鎖付過程中轉速急速下降，即表示起子在過載下操作。此刻請更換較大馬力輸出的扭力起子，或降低鎖付頻度，以延長起子使用壽命。
- ◆ 碳刷更換：
利用硬幣或寬度 5～7mm 之“—”字起子將碳刷蓋逆時針轉出，取出碳刷，然後將同規格之新碳刷插入碳刷孔內，再將碳刷蓋以順時針方向鎖緊，更換工作即完成。
 - 更換碳刷時，請拔離電源插頭後再執行，並使用原廠同規格之碳刷。
 - 碳刷面凹槽必須順著轉子旋轉磨擦的方向插入。如下圖：



☐ After use

Storage and maintenance: when the unit is to be stored for a long period, remove the power supply and bit, open the carbon brush cover and blow out any accumulated carbon brush dust with compressed air, and wipe the exterior clean. Then store the screwdriver carefully in a dry, dust-free place away from direct sunlight. Store the bit in grease. To ensure continued serviceability, periodically check and maintain the screwdriver.

☐ Troubleshooting

If the screwdriver does not work properly, check the list below. If you cannot solve the problem do not open the unit. Contact one of our authorized agents as soon as possible.

☐ If the screwdriver does not run

· Check that the power supply is outputting power.

· Check that the power supply plug is inserted properly and that output plug terminals No.1 (-) and NO.4 (+) show 30VDC (approximate) between them. If no output is shown, change the power supply.

· Check for a open or short circuit in the 5p-5p or 6p-6p cord connecting the screwdriver to the power supply.

· If an open or short circuit is found change the cord or plug.

(use plug type 2G2021(5p) or 2G2022(6p) or purchase equivalent type)

· check that the fuse is intact. Caution: when changing the fuse, unplug the power supply.

· check that the carbon brush is undamaged, that the carbon brush guide cord with the rotor to become too small. Anyone of these factors could cause the screwdriver to stop rotating or rotate abnormally.

Inspection method: open the carbon brush cover and use a non-conductive insulated rod to gently press the brush. If the screwdriver resumes rotating, the carbon brush has reached the end of its useful life and must be replaced immediately.

· Check that the rotation direction switch are working properly. If no ‘click’ is heard when a trigger is depressed, it is not working and must be replaced.

(make sure to perform this check in a quiet place)

☐ If the screwdriver is not rotating normally

· There is a protective circuit within the power supply. Power is only supplied normally from 3 to 5 seconds after current flow begins.

· If the motor only runs intermittently during ‘Forward’ operation, try ‘Reverse’ operation, or rotate the anvil 90 degrees until a ‘click’ is heard, then re-attempt ‘Forward’ operation.

· Long-term use causes the motor’s commutator to wear down. In this case, it must be replaced.
(this repair must be performed by one of our authorized agents)

☐ If the bit falls out easily or wobbles

· check that the bit matches our specifications. If not, change the bit to one that does.

· If the bit tends to wobble, remove the bit, rotate it 60 or 180 degrees and re-insert it.

☐ If the screwdriver does not stop when the selected torque is reached

· An excessive torque setting can cause the screw to strip the threads, with the result that the clutch does not activate. Lower the torque to a level that does not cause stripping.

· Differences in size between the bit tip and screw slot lengths can cause slopping. Change to a suitable bit tip.

· The brake circuit may be damaged or the sensor switch may have shifted.

(this repair must be performed by one of our authorized agents)

☐ Warranty

We provide a one-year free repair service warranty with this product. The warranty is good for one year from the date of purchase entered on the Product Information Form. The retailer’s stamp must appear on the form to confirm the date. However, the following circumstances we will charge the user for any parts and labor cost associated with repairs.

☐ For repairs involving normal wear to parts including carbon brushes, bits and power cord, and also to the exterior surface.

☐ If the screwdriver was connected to a power source of the incorrect voltage.

☐ If there was inappropriate use or an attempt to repair the unit by the user.

☐ After the period of the guarantee, or if the user cannot present the manual with stamped Product Information.

Retailer’s
Stamp

Specifications and design may be changed without notice for improvement (A-5)

Serial No.:

ASA Industrial Electric Screwdriver User’s Manual
(for full-automatic models – low volt. DC motor with controller)

☐ A Word of Thanks to Our Customers

Thank you for choosing lightweight and powerful electric screwdrivers. In order to insure maximum performance and product life, please read through this manual before using your screwdriver.

☐ Feature

☐ Our screwdrivers are designed for use with precision torque locking screws. It can be used for assembly of large range items such as home appliances, computers furniture and car industry etc.

☐ Low vibration, low noise, meets environmental protection demands.

☐ Low-voltage electronic braking circuit for precision torque control, low breakdown rate and long product life.

☐ Low-voltage DC motor for safety and prevention of electric shocks.

☐ Design features separation of screwdriver and control for low repair costs and higher serviceability rate.

☐ Switching power supply plugs directly into screwdriver and supplies stable voltage, provides more accurate torque and longer motor life.

☐ Right-angle (90°) head adapter attaches easily to screwdriver for use in small spaces (>60mm), operates smoothly. (Optional)

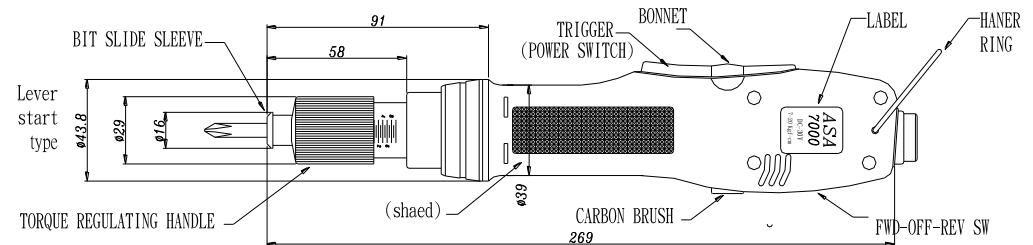
☐ Screwdriver can be provided with a pistol grip for added safety and convenience. (Optional)

☐ Ergonomically designed exterior reduces work fatigue and increases productivity.

☐ Specifications

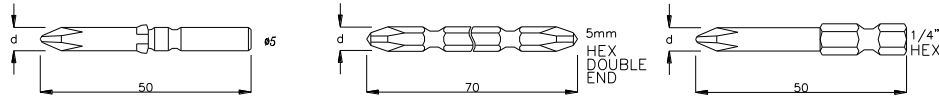
Model		7000		7500	7500PS	8000		8500		9000	
		7000PS				8000PS		8500PS		9000PS	
Power source		30VDC									
Torque range Kgf-cm / 1bf-in		7-20 / 6.1-17.4		7-30 / 6.1-26.0		12~30 / 10.4-26.0		12.0-40.0 / 10.4-34.7		20.0-50.0/17.3-43.4	
Torque accuracy		±3%									
No load speed/ rpm		700	1000	1000		550	1000	700	1000	500	650
Torque setting		Stepless									
Available Screw	Machine screw mm / in	3.0-4.0 / 0.12-0.16		3.0-5.0 / 0.12-0.20		3.5-5.0 / 0.14-0.20		3.5-5.5 / 0.14-0.22		4.0-6.0/0.16-0.24	
	Machine screw mm / in	2.6-3.5 / 0.10-0.14		2.6-4.0 / 0.10-0.16		3.0-4.0 / 0.12-0.16		3.0-4.5 / 0.12-0.18		3.5-5.0/0.14-0.20	
Weight g / 1b		670 / 1.47 , 740/1.6 (PS)									
Length mm / in		265 / 10.4, 269/10.6 (PS)									
Available bit shank		5 ϕ /5mm hex shank · 1/4” hex shank									
Power consumption		60									
Available power supply		APM-302B,AM-65(5P)(ASA-7000/8000) · APM-302C(6P)(ASA-7500/8500) AM-85(6P)(ASA-7500/) · APL-301B(5P)(ASA-9000)									
Clutch impact		Just one time when torque up									

☐ Outline (this drawing applies only to 1/4” hex. bit shank screwdrivers)



☐ Accessories

This product comes supplied with a pair of carbon brush and two bits.



☐ Bits(one set per screwdriver)

Bit specifications									Available Screwdriver Model
ϕ 5			5mm Hex shank(PS series)			1/4” Hex shank			
Tip No.	Tip Dia d	P#	Tip No.	Tip Dia d	P#	Tip No.	Tip Dia d	P#	
#1	5 ϕ	7W3844	#1	5mm	7W5848	#1	ϕ 4.5	7W6744	ASA-7000/PS
#2	5 ϕ	7W3864	#2	5mm	7W5868	#2	ϕ 6.0	7W6964	
#2	5 ϕ	7W3864	#2	5mm	7W5868	#2	ϕ 4.5	7W6764	ASA-7500/PS
#2	5 ϕ	7W3864	#2	5mm	7W5868	#2	ϕ 6.0	7W6964	ASA-8000/PS
---	---	---	---	---	---	#2	ϕ 6.0	7W6964	ASA-8500/PS
						#2	ϕ 6.0	7W6964	ASA-9000/PS

☐ Power supply(optional)

Model	Dimension mm			Operation volt (AC)	Output volt (DC)	Weight (g)	Approval	Available Model
	L	W	H					
APM-302B	172	84	46	100-240V	20-30V	380	CB,CE, UL(c UL)	ASA-7000 ASA-8000
APM-302C	172	84	46	100-240V	20-30V	380		ASA-7500
APL-301B	270	130	66	100-240V	25-30V	1100		ASA-8500 ASA-9000
AM-65	172	84	61	100-240V	20-30V	450		ASA-7000 ASA-8000
AM-85	172	84	61	100-240V	20-30V	450		ASA-7500

☐ Before use, read the following

- ☐ Use the correct voltage: Carefully check the voltage shown on the power supply and this manual and determine the correct voltage. Only plug the unit into a power source of the correct voltage.
- ☐ Determine the appropriate torque range: choose the correct screwdriver for the torque you will require. To lengthen product life, avoid long-term high torque use.
- ☐ Make sure the screwdriver is undamaged: If the power code is scraped or damaged, it should be immediately unplugged and replaced to avoid electric shocks or a short circuit that could result in fire.
- ☐ Use in an appropriate work environment: To ensure safety, do not use in high temperature, high humidity environments or near flammable materials. Keep the power cord away from tools or equipment that might scrape or melt it.
- ☐ When plugging in or unplugging the power cord, hold the plug firmly. Never pull on the cord.

☐ Method of operation and important points

- ☐ Brace fastened objects securely-Before operation, refer to “torque settings” item to determine the appropriate torque , and adjust the screwdriver to the appropriate torque. Make sure that the fastend objects are securely braced, and then begin operation. This procedure will avoid hazardous rapid rotation of the fastened objects due to excessive torque or insufficient bracing.
- ☐ Driving and removing screw: Before operation, set forward/reverse switch properly. To drive

a screw, set the switch to the forward(FOR) position. To remove a screw, set it to the reverse(REV) position. Press the screwdriver onto the screw perpendicularly to being operation. Note: Don't operate the FWD/REV switch when the motor is running.

- ☐ Torque settings: Use the regulating handle or torque reaction ring (ASA-8500, 9000 only) to set the torque. Turning it in a clockwise direction into the screwdriver will increase the torque. Turning it counterclockwise out of the screwdriver will decrease the torque.
Note: The engraved markings on the engraving ring are for reference only and do not indicate torque output. Torque output can only be determined by repeated testing with a torque meter or hand-held spanner torque meter. To prevent your torque setting from being changed, we can provide a torque cover (optional) which covers and secures the regulating handle.

- ☐ Bit insertion: Use your finger to depress the slide sleeve into the screwdriver and insert an appropriate bit. When the slide sleeve is released, the bit will be automatically engaged.
Note: Do not hammer the bit in or pull it out forcibly.

- ☐ Secure screwdriver during operation: During operation, hang the screwdriver up securely (as from balancer) in order to prevent it from being knocked down and suffering external cracking, internal damage, or a snapped power cord.

- ☐ Start and stop: For lever start type. The motor begins running when the lever is depressed and stops when it is released. For push to start type. When the screwdriver is pressed onto a screw perpendicularly, inwards pressure from the screwdriver bit engages the power switch, and the motor begins running. When the pressure on the screwdriver is released, the bit and power switch revert to their original positions and the motor stops running.

- ☐ When the selected torque is reached: This product features an internal clutch assembly. When a screw is driven and the selected torque is reached, the clutch assembly will automatically disengage and a ‘click’ will be heard. At this point, even if the ‘trigger’lever or depress force is not released, the power to the motor will be automatically cut off.

Note: When driving screw, grasp the screwdriver firmly in order to prevent upwards recoil generated by the clutch release from forcing the screwdriver bit edge form the screw slot and damaging slot.

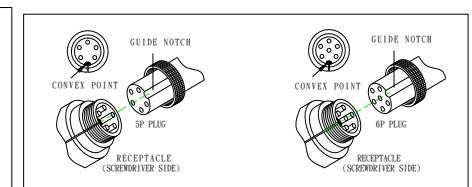
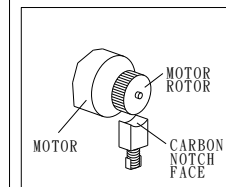
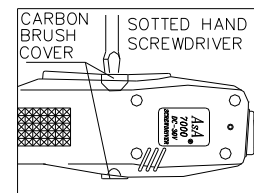
- ☐ When removing screws: when a previously driven screw cannot be removed using the same torque that it was driven with, raise the torque setting. After the screw is removed, return the regulating handle to its original setting. To simplify this operation, note the number ‘click’ sounds generated as the regulating handle is turned. When removing a screw, if the required torque is higher than the screwdriver’s output torque, the clutch may not disengage, causing the user’s hand and arm to be twisted. In this case immediately set the forward/reverse switch to “STOP” to cut the motor power and prevent injury.

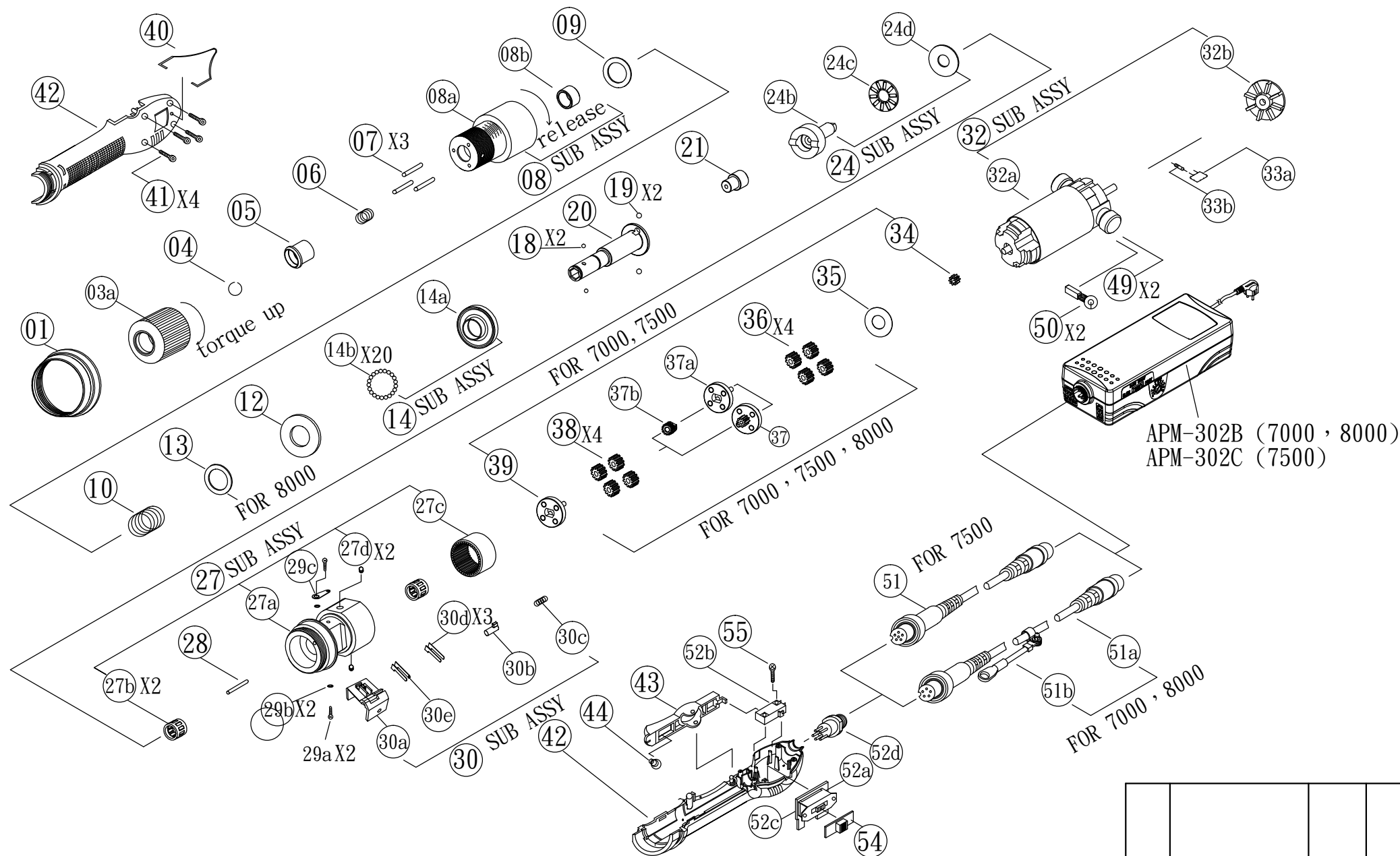
- ☐ Operational frequency: suggest the operational frequency 1/4”(ON/OFF)second, the total screws 7000pcs/8hours, don’t over our operational frequency suggest, and avoid the inside parts of screwdriver serious damage. If everyday work 8hours upward, please use two screwdriver by turns, protect the life of screwdrivers.

- ☐ Changing the carbon brush: Open the carbon brush cover by turning it counterclockwise with a coin or standard screwdriver(width5-7mm.)Remove the used carbon brush and insert a new carbon brush of the same specifications in the empty space. To complete the operation, close the carbon brush cover tightly by turning it clockwise. Then remove the carbon brush fastener

Note:

- When changing the carbon brush first unplug the screwdriver. Use a factory specification carbon brush.
- The notch on the carbon brush surface must face into the direction of the rotor rotation





UNIT:M/M	DATE	NAME	NAME
DESIGN			ASA-7000, 7500, 8000
DRAWN	2023/03/08	Chan	disassemble graphic
CHECKED			AsA Tools ENTERPRISE CORP.
APPROVED			TEL:(02)2790-0535

△	REVISED		
SYM	DESCRIPTION	DATE	SIGN
DWG. NO: M20012			