Tanaka Illustrated Parts Manual

Model Number:

AST-210

AutoStart Trimmer

P/N 27124 Rev 000 Date 8-31-06





<u>PRODUCT INFORMATION</u>

WHILE QUANTITIES LAST!

AST-210
Auto-Start™ Grass Trimmer





Features / Benefits

- Auto-Start™ electric starting system provides instant starts with the push of a button.

Re-designed cutting guard provides a less restricted cutting view while conforming to ANSI standards.

Bearing supported, solid steel drive shaft provides smooth and efficient power transfer from the engine to the cutting head.

"D" style handle provides added comfort at any trimming angle.

Removable Battery allows you to charge the battery anywhere at any time.

2 / 5 Warranty Coverage provides **Two-Year** Coverage for Homeowners and **Five Years** on the Electronic Ignition Module.

Specifications								
Engine Displacement cc (cu. in.)	20 (1.2)							
Power (h.p.)	1.0							
Cylinder	Chrome Plated, Stress Relieved							
Carburetion	Diaphragm w/Primer & Fuel Injection							
Ignition System	Transistorized Electronic							
Fuel Tank Capacity / fl. oz. (cc)	11.2 (330)							
Anti-Vibration System	Rubber Engine Mount							
Clutch System	Heavy-Duty Centrifugal							
Shaft Support	5 Shaft Bearings							
Drive System	7mm Solid Steel							
Standard Cutting Head	5" Semi-Automatic Feed (.095" Line)							
Dry Weight / lbs. (kg) w/head	12.8 (5.8)							

Optional Accessories:

ORDER#	DESCRIPTION
746751	BRAIN™ automatic feed head
746280	Aluminum fixed line head
746551	4" manual feed head
Varies	Assorted brush & weed blades
746291	Deluxe shoulder harness
TMC-200	Cultivator Attachment
TPS-200	Pole Saw Attachment
TPH-200	Pole Hedge Trimmer Attachment
Varies	Copolymer Nylon Cutting Line
Varies	Perfect Mix 2-Cycle Engine Oil

All data and specifications are subject to change without notice For more information, contact:



Tanaka PRODUCT INFORMATION

Grass Trimmer Attachments



Pruning Saw Attachment

The versatile TPS-200 Pruning Saw attachment easily converts Tanaka straight shaft grass trimmers / brushcutters into a powerful pruning saw.

TPS-200 Features:

- 24" Shaft Provides a 98" Overall Length when mounted
- 10" Oregon® Bar & Chain
- Easy-Mount Coupler

To be used with the following Tanaka models:

- AST-7000 / 7000S / 210
- TBC-4500 / 4501 / 2211
- TBC-220 / 240
- TBC-250 / 2501 / 2510 / 265
- TBC-270PF/PN



TPS-EXT Pruning Saw Extension (Part # 748511)

Add an extra two feet of reach with this pruning saw extension that will fit on both the TPS-2510 and TPS-270PN Pruning Saws. In addition, it can be added to Tanaka straight shaft grass trimmers that utilize the TPS-200 Pole Saw Attachment.

Pole Hedge Trimmer Attachment

For added reach and maneuverability, the TPH-200 Pole Hedge Trimmer attachment can be added to several Tanaka straight shaft grass trimmers / brushcutters.

TPH-200 Features:

- 22" Double Sided Cutting Blades
- Articulating / Pivoting Cutting Angle up to 130 degrees.

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- TBC-220 / 240
- TBC-250 / 2501 / 2510 / 265
- TBC-270PF/PN

Mini-Cultivator

This simple, easy to install attachment is ideal for quick garden / flower bed weeding and cultivation. For maximum depth, the TMC-200 can dig up to 4 inches into the ground and 6" wide.

With a 49:1 reduction ratio, this heavy duty gear box gives you more tilling power.

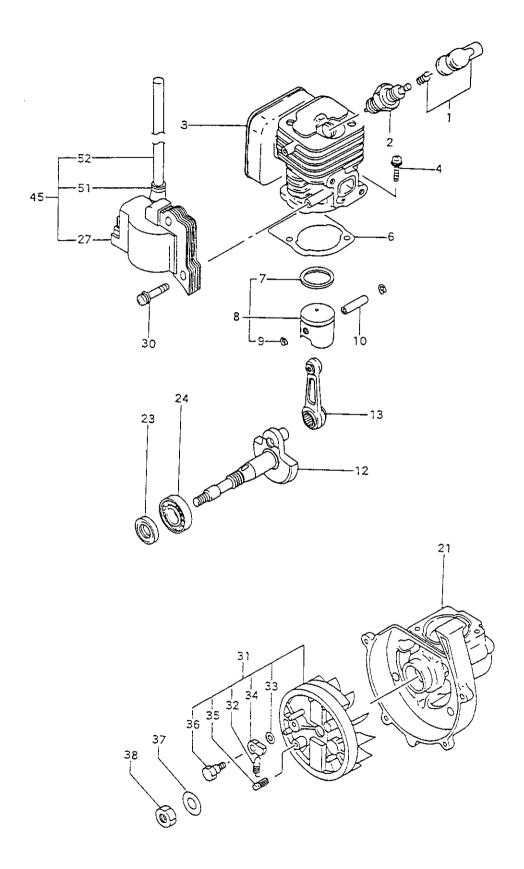


To be used with the following Tanaka models:

- AST-7000 / 7000S / 210
- TBC-4500 / 4501 / 2211
- TBC-220 / 240
- TBC-250 / 2501 / 2510 / 265
- TBC-270PF/PN
- TBC-300 / 3010
- TBC-420PF

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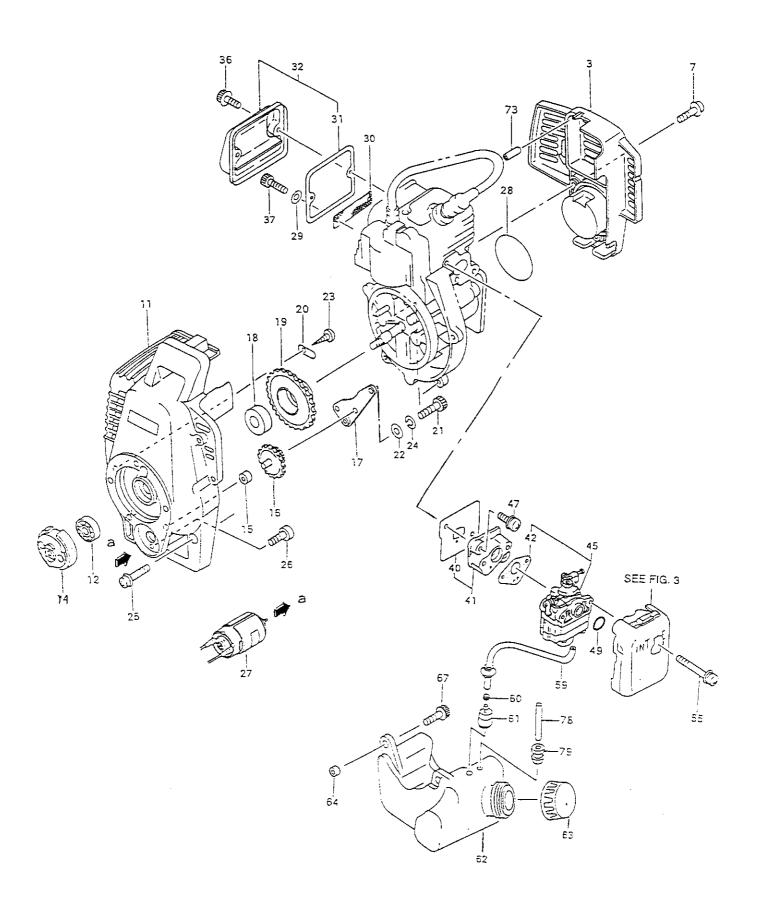
FIG. 1 ENGINE



		AOT-2101 ATTO LISTING										
	REF.	PART NO.	PART DESCRIPTION	Q	С	S	SERIAL NO.	REMARKS				
	1	157-01570-900	CAP,SPARK PLUG,ASS'Y	1		С						
	2	018-11660-21	PLUG,SPARK	1		В						
	3	001-0006D-90	CYLINDER,AST-210	1		В		Includes gasket				
	4	994-16050-221	SCREW,5X22/WS	2		С						
	6	017-00025-200	GASKET,CYLINDER	1		Α						
	7	041-00000-210	RING,PISTON,LOWER	1		Α						
	8	030-00045-90	PISTON,AST-210	1		В		Includes ring & circlips				
	9	039-06100-200	CIRCLIP, PISTON PIN	2	\	Α	\ 					
	10	037-06097-20	PIN,PISTON	1		В						
	12	046-00025-80	CRANKSHAFT	1		D						
	13	061-00025-800	ROD,CONNECTING	1		C						
	21	077-00025-21	CRANKCASE	1		D						
		999-66152-511	SEAL,OIL,#VE15X25X7	1		Α						
	24	999-61600-200	BEARING,BALL,#6002	1		В						
	27	167-20526-80	COIL,IGNITION	1		С		Without H.T. lead				
	30	994-16040-201	SCREW 4x20 WS	2		D						
	31	155-20526-90	ROTOR,MAGNETO	1		D		Includes pawls & springs				
	32	790-0006A-20	PAWL,STARTER SPRING	2		С						
						_						
			WASHER, SPECIAL, B	2		D						
	34	788-0006A-20	PAWL,STARTER	2	1	C						
ı	35	792-0006A-20	PIN,STARTER PAWL	2		C						
	36	793-0006A-20	BOLT,STEP	2		C						
	37	992-00120-011	WASHER,12]		D						
	38	991-11120-011	NUT,12			A						
	45	167-20526-90	COIL,IGNITION ASSY	1		D		Complete				
	51	560-20517-200	CAP,RUBBER	1		С		Complete				
	52	264-20526-20	CORD,HGIH TENSION 180L	1		С						
	J_	20020 20	COND, NAME TENSION TOOL									
- 1		i										

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FIG. 2 ENGINE COMPONENTS



	UNL Z	AS1-210 P					
REF.	PART NO.	PART DESCRIPTION	Q	С	S	SERIAL NO	REMARKS
	752-0006A-21	PROTECTOR, MUFFLER B	1		В		
7	994-15050-161	SCREW,5X16/PS	3		С		
11	112-0006D-81	CASE,FAN ORANGE	1		В		
12	999-61600-001	BEARING,BALL,#6000ZZ	1		В		
14	277-0631Q-900	CLUTCH,ASS'Y	1		С		
15	328-0006B-20	BUSHING	1		D		
16	285-0006A-80	GEAR 2.3	1		В		
17	670-37750-20	RECEIVER,SHAFT	1		C		
18	791-0006A-20	BUSHING,STARTER	1		C		
19	309-0006A-20	GEAR 4	1		C		
	283-0006A-20	GEAR HOLDER	2		[C]		
21	990-51040-153	BOLT,HEX HOLE 4x15	2		C	:	
		WASHER 4	2		D		
		SCREW,TAPPING,4.5X12	2		D		
		WASHER,SPRING 4	2		C		
1	Ĭ	SCREW,5X20/WS	4		D		
1	990-54030-085	SCREW,HEX,3X8	2		D		
27	306-0006A-80	MOTOR,WITH GEAR 1	1				
1	999-67048-012		1		С		
	992-00040-011	WASHER,4	2		C		
	ł.	ARRESTER,SPARK	1		C		
	739-00025-201	GASKET,MUFFLER	1		C		
1 1	717-00025-90	MUFFLER BODY, B	1		D		
36	994-60050-104	BOLT,HEX 5x10W	1		D		
07	000 54040 000		ارا				
		BOLT,HEX.HOLE 4X8	2		D		
		GASKET,INLET MANIFOLD	1		Α		
		INSULATOR, CARBURETOR					
	402-0602K-21	GASKET, CARBURETOR			C		
	455-00045-90	CARBURETOR AST-210	ן ו		В		
47	994-16050-221	SCREW,5X22/WS	2		C		
49	999-67015-000	O-RING,P15			إرا		
	994-16050-601	SCREW 5x60WS	ا ا	ļ	D		
	223-06500-90	PIPE, FUEL, ASS'Y	2		C		
1	680-00731-201	ICLIP 6.3	'		В		
1	675-04042-80	FILTER, FUEL	Ň		A		ļ
1	591-0006D-20	TANK, FUEL	v		В		
"-	20. 00000 20	7,4,4,4,6,1			٦		
63	595-0654A-90	CAP,TANK,BLACK	1		A		
	659-00801-200	COLLAR, TANK HOLDING METAL	2		c		
67	994-63050-185	BOLT,HEX 5X18PS	<u>-</u>		D		
				_	_		

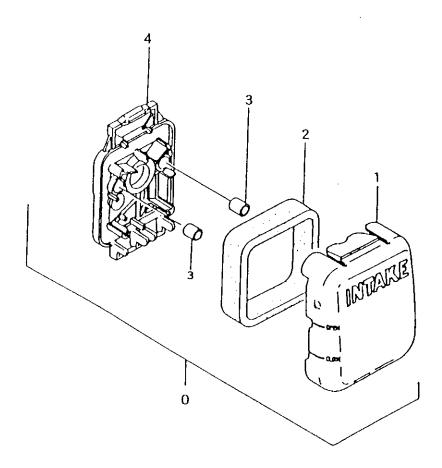
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FIGURE 2 cont.

REF.	PART NO.	PART DESCRIPTION	Q	С	S	SERIAL NO.	REMARKS
73	700-15007-01	PIPE,RUBBER	1		В		
78	700-03005-065	PIPE,FUEL,3X5X65	1		D		
79	534-32710-200	GROMMET, FUEL PIPE	1		В		

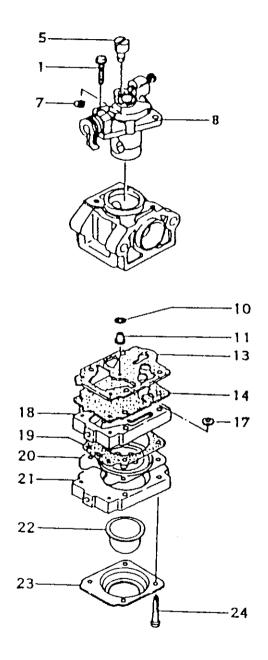
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FIG.3 AIR CLEANER



REF.	PART NO.	PART DESCRIPTION	Q	С	s	SERIAL NO	REMARKS
0	410-0006D-90	CLEANER,AIR	1		В		
1	424-0006D-20	CAP,AIR CLEANER	1		В		
2	446-00025-200	ELEMENT, CLEANER	1		Α		
3	470-00025-200	COLLAR	2		c	·	
4	423-0006A-20	BODY,AIR CLEANER	1		c		

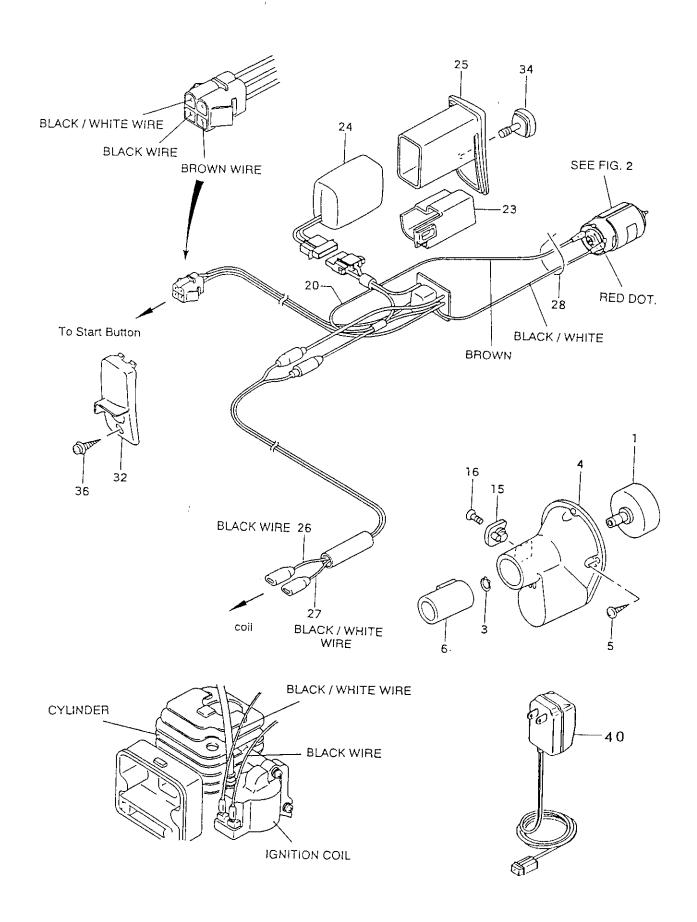
FIG. 4 CARBURETOR



		7107 27077	•••		_		
REF.	PART NO.	PART DESCRIPTION	Q	С	S	SERIAL NO.	REMARKS
0	455-00045-90	CARBURETOR, ASS'Y	1		В	~S096459	
0	455-0006E-90	CARBURETOR, ASS'Y	1		В	S096460~	
1	548-25140-200	SCREW,THROTTLE SET	2		Α		
5	539-25120-200	SWIVEL	1		С		
7	489-25100-200	RING,STOP	1		С		
8	488-25158-80	VALVE,THROTTLE	1		С		* Contained in Carb. Repair Kit
							650-25140-900
10	~~~	*O-RING	1		В		(Not available individually)
11	599-2000W-370	JET,MAIN,#37	1		С	~S096459	
11	599-2000W-38	JET,MAIN # 38	1		С	S096460~	
13	~~~	*GASKET,PUMP	1		С		
14	~~~	*DIAPHRAGM,PUMP	1		С		
17	~~~	*SCREEN,INLET	1		С		
	575-25153-80	BODY,PUMP	1		D		
19	~~~	*GASKET,DIAPHRAGM	1		C		
20	~~~	*DIAPHRAGM,METERING	1		С		
21	442-25151-80	PUMP,PRIMING	1		D		
	447-25108-200	BULB,PRIMING	1		D		
	476-25151-20	COVER, DIAPHRAGM	1		D		
24	548-25151-20	SCREW,SET	4		D		

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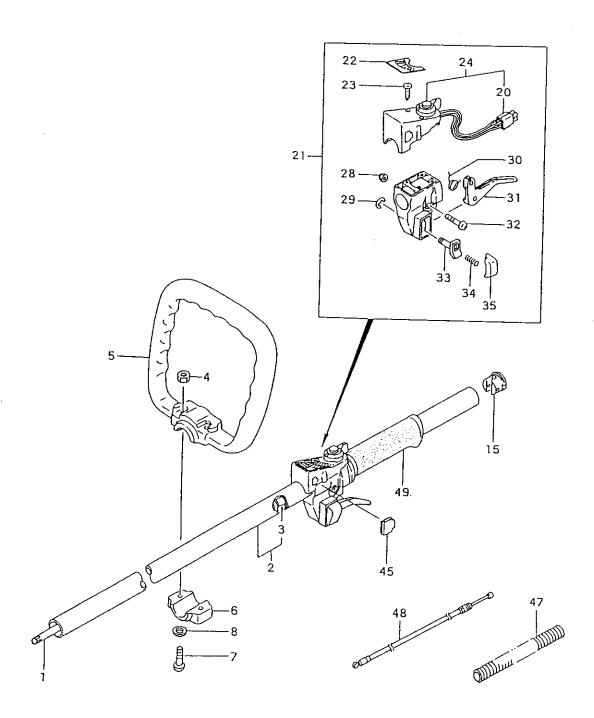
FIG. 5 CLUTCH CASE & WIRES



		ACT ZIOT	,		_	.01//10	
REF.	PART NO.	PART DESCRIPTION	Q	С	S	SERIAL NO.	REMARKS
1	289-0006A-80	SHAFT,CLUTCH	1		В		
3	993-50010-002	RING,STOP,C-10 EX	1		С		
4	331-0006D-80	CASE,CLUTCH	1		D		
5	990-73050-184	SCREW,TAPPING,5X18	4		D		
6	599-0654C-21	CUSHION,ANTI-VIBE	1		Α		
15	538-06540-21	LOCATOR, CUSHION RUBBER	1		С		
16	990-51050-153	BOLT,HEX.HOLE,5X15	1		c,		
20	655-37754-80	HARNESS,WIRE	1		D		
23	599-0006A-20	CUSHION,RUBBER	1		D		
24	BP-210	BATTERY,ASS'Y	1		С		
25	985-0006A-22	CASE,BATTERY	1		D		
26	173-0006A-80	CORD,PRIMARY B260M	1		D		
27	274-0006A-80	CORD,GROUND W/B260M	1		D		
28	266-37600-200	CLAMP,WIRE	1		D		
32	136-0006D-20	COVER,FANCASE	1		D		
34	450-0006A-81	BOLT,COVER FIXING	1		D		
36	990-73050-184	SCREW,TAPPING,5X18	1		D		
40	BC-210	CHARGER,BATTERY AST-210	1		В		

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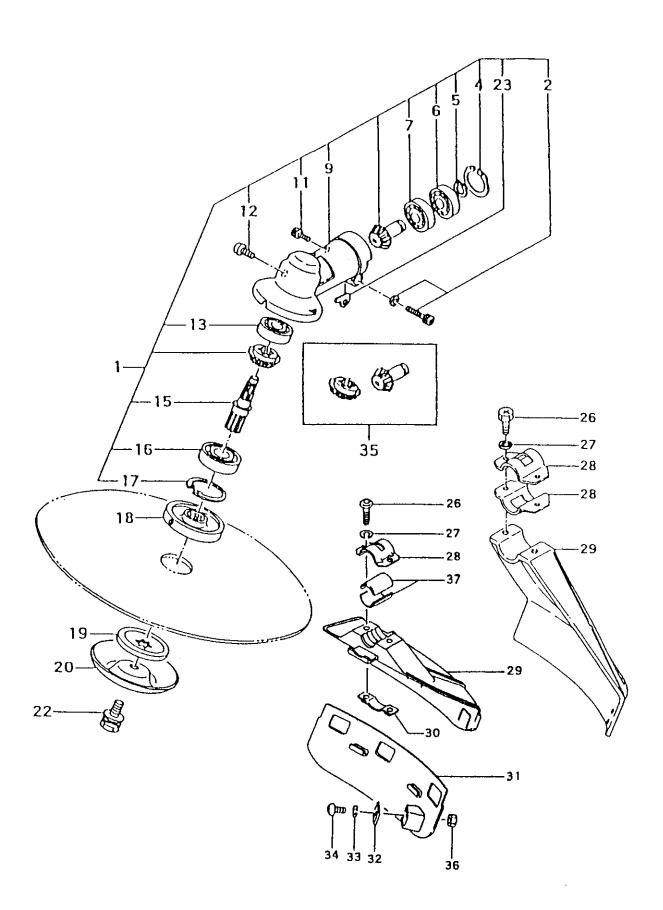
FIG. 6 HANDLE



,,,,	O. I.E. O	A31-210 F	ΑП	1/3) L	ið í livu	
REF.	PART NO.	PART DESCRIPTION	Q	С	s	SERIAL NO	REMARKS
1	343-37617-200	SHAFT.DRIVE 1491mm	1		С		
2	341-33950-80	PIPE,DRIVE SHAFT	1		C		
3	347-37300-90	BUSHING ASSY	5		D		
4	991-01060-011	NUT,6	2		Α		
5	500-33316-20	HANDLE	1		D		
6	506-33316-200	BRACKET,HANDLE A	1		D		
7	990-23060-401	BOLT,P,6X40	2		D		
8	992-01060-011	WASHER,6	2		Α		
15	346-33950-20	HOLDER,PIPE	1		D		
20	656-37600-200	CONNECTOR,MALE,4P	1.		D		
21	870-37754-90	LEVER,THROTTLE ASSY	1		В		
22	169-37602-200	DECAL, OFF/ON	1		D		
23	993-42030-251	SCREW,TAP	2		D		
24	156-37754-90	SWITCH,STOP	1		C		
28	991-86050-000	NUT,LOCK,5	1		ם		
29	993-55060-001	RING,STOP,6	1		D		
30	832-37101-200	SPRING,RETURN	1		C		
31	880-37101-200	LEVER,THROTTLE	1		В		
32	994-31050-251	SCREW,S.,5X25	1		С		
33	853-37101-200	SHAFT,LOCK BUTTON	1		D		
34	958-37101-200	SPRING,LOCK,BUTTON	1		D		
35	956-37101-200	BUTTON,LOCK	1		D		
45	204-0006D-20	CORD,BLIND GROMMET	1		D		
47	164-07014-00	TUBE, PROTECTION 140L	1		D		
48	885-00032-80	WIRE,THROTTLE	1		В		
49	504-37300-200	GRIP,SHAFT	1		D		
	ı	i	1 1	1			

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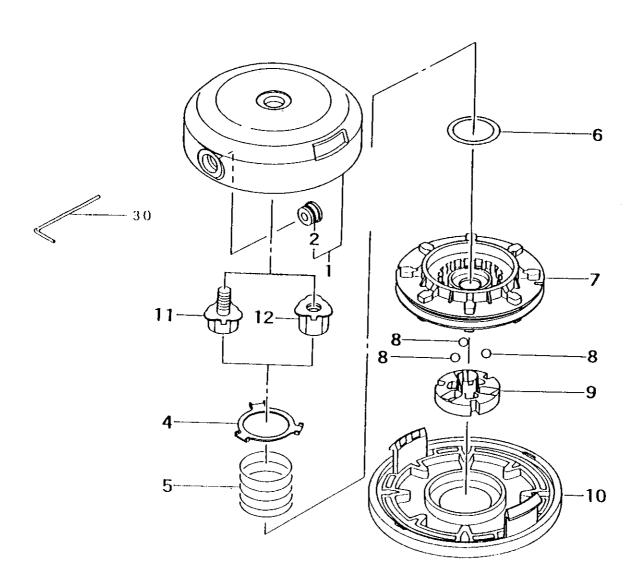
FIG. 7 GEAR CASE



	AST-210 FARTS LISTING										
REF.	PART NO.	PART DESCRIPTION	Q	С	_	SERIAL NO.	REMARKS				
1	300-37417-91	CASE,GEAR ASS'Y	1		D						
		BOLT,HEX HOLE,5X25S	1		С	-					
4	993-53022-002	RING,STOP,R22 IN	1		C						
5	993-50010-002	RING,STOP,C-10 EX	1		C						
6	999-61690-001	BEARING,BALL,#6900ZZ	1		В						
7	999-61690-000	BEARING,BALL,#6900	1		В						
	300-37623-20	CASE,GEAR	1		D						
1		BOLT,HEX.HOLE,5X10	1		C						
12	994-23080-100	BOLT,8X10	1		D						
13	999-61626-000	BEARING,BALL,#626	1		В						
15	304-37307-200	SHAFT,GEAR	1		В						
16	999-61600-104	BEARING,BALL,#6001DD	1		В						
		RING,STOP,IN,C-28	1		С						
18	310-37623-202	HOLDER, CUTTER	1		С						
19	311-37300-20	CAP,CUTTER HOLDER	1		Α						
22	312-33386-20	BOLT, FIXING, L.H.	1		C						
23	324-37350-20	WASHER,GEAR CASE	1		D						
26	990-23060-161	BOLT,6X16 PLUS	2		С	~S257150					
26	990-53060-253	BOLT,HEX,6X25	2		C	S257151~					
27	992-10060-012	WASHER,S,6	2		Α	~S257150					
27	992-10060-062	WASHER,S,6	2		A	S257151~					
28	442-37417-20	BRACKET,SAFETY GUARD	2		C	~S257150					
28	442-33699-20	BRACKET, SAFETY GUARD	1		C						
29	441-33905-800	GUARD, SAFETY	1		D	~S257150					
	441-37380-20	GUARD, SAFETY	1		В	S257151~	ANSI				
30	445-37380-20	HOLDER, GUARD	1			S257151~					
31	447-37380-20	EXTENSION, GUARD	1		С						
32	797-37380-21	BLADE, LINE LIMITER	1		С						
33	307-37307-20	WASHER, SPECIAL	1		В						
34	994-14050-121	SCREW,S,5X12	1		C						
35	301-37300-01	SET,GEAR/PINION	1		Α						
36	991-01050-011	NUT,5	1		D						
37	444-37609-200	SPACER,BRACKET	2		D						

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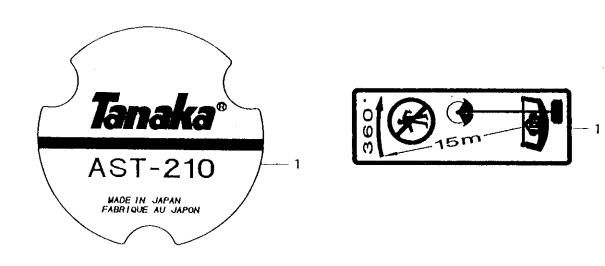
FIG. 8 TOOLS & NYLON HEAD



REF.	PART NO.	PART DESCRIPTION	Q	С	S	SERIAL NO.	REMARKS
0	783-33810-90	HEAD,AUTO,(TH-96)	1		В	~S257150	
0	783-33812-90	HEAD,AUTO,(TH-97B)	1		В	S257151~	
1	786-33810-90	BODY,CUTTING	1		В		
2	788-33071-20	EYELET	1		Α		+
3	760-33810-20	WASHER,MOUNTING	1		C		
4	785-33810-20	BASE,ADJUSTMENT	1		В		:
5	793-33810-21	SPRING,REEL,BLACK	1		A		
6	792-33810-20	WASHER,ADJUSTMENT	1		A		
7	787-33810-20	REEL	1		D	~S257150	
7	787-33821-20	REEL,TH-97	1		D	S257151~	Can be used in TH-96 head
8	673-35600-20	BALL,STEEL	3		В		
9	790-33810-20	SLIDER,REEL	1		В		
10	789-33810-20	CAP,BODY	1		В		
11	314-33812-80	BOLT, MOUNTING	1		C	S257151~	Can be used in TH-96 head
30	813-20000-200	WRENCH,HEX,4	1		D		

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FIG. 9 DECALS



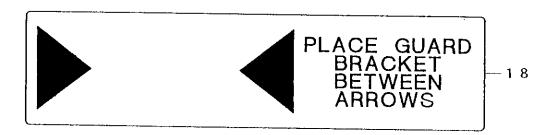






FIGURE 9

						-	
REF.	PART NO.	PART DESCRIPTION	Q	С	s	SERIAL NO	REMARKS
1	906-0006D-20	DECAL,AST-210	1		Б		TIEN/TINO
16	919-37286-20	DECAL, CAUTION	1		ΙD		
18	923-37286-20	DECAL,LEVEL MARK	1		D		
20	933-37301-200	DECAL,SYMBOL	11		D		
1		DECAL,SYMBOL			D		



Date: September 2000

Model & Serial: AST-210, TBC-2211 (1)

TBC-4001, TBC-2251 (2)

Reason: Some units experienced difficulty in properly feeding line. The spring within the

head has been changed to ensure proper feeding.

Part Number Changes:

Old Part #	New Part #	Description	Remarks
783-33815-90	783-33817-90	Brain Head (1)	Marking on body changed from NB to NBY
793-33810-21	793-33810-22	Spring (1)	Color has been changed from black to black & yellow
783-33822-90	783-33823-90	Brain Head (2)	Marking on body changed from RB to RYB
793-33820-20	793-33820-21	Spring (2)	Color has been changed from silver to silver & yellow



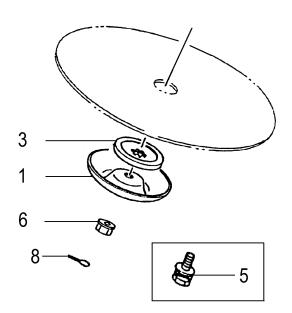


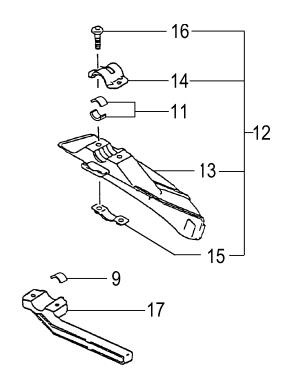


BLADE KIT



WARNING! Read the owners manual and follow all warnings and safety instructions. Failure to do so can result in serious injury to the operator and/or bystanders. Never attempt to mount a steel blade to a machine that is not specifically designed for that purpose. Never attempt to mount a steel blade without using all components of the blade attachment kit, including shoulder strap and barrier safety bar.





ITEM	PART NUMBER	DESCRIPTION	QTY	COMMENTS
1	30833410200	COVER,PROTECTION,B,8mm	1	8mm
1	3083786120	COVER,BOLT PROTECTOR,10mm	1	10mm
3	3113754720	CAP,CUTTER HOLDER,8mm	1	for use with 8x1.25 nut
3	3113815020	CAP,CUTTER HOLDER,10mm	1	for use with 10x1.25 nut
5	3123338620	BOLT,FLANGED,10x1.25,LH	1	10x1.25 bolt
6	3133754720	NUT,FIXING L.H. 8X1.25	1	8x1.25 nut
6	3133833220	NUT,FIXING L.H.,10X1.25	1	10x1.25 nut
8	3273718090	PIN,COTTER 2X20 (10 PACK)	1	
9	44437609200	SPACER,BRACKET	1	for use with barrier bar, 24mm shafts
11	44437609200	SPACER,BRACKET	2	
12	30060	KIT,BLADE GUARD	1	
13	4413738020	GUARD,SAFETY	1	
14	4423369921	BRACKET,SAFETY GUARD	1	
15	4453738020	HOLDER,GUIDE	1	
16	99481060254	SCREW,HEX HOLE 6X25	2	
17	5203339820	BAR,BARRIER 26mm	1	
18	746191	STRAP,SHOULDER,PSS-175	1	Includes mounting bracket/hardware