

YANMAR Combine Harvester

Model AW448T

Regular Inspection/

Maintenance Manual



Yanmar Agricultural Machinery (Thailand) Co LTD

Content

- 1. Yanmar Combined Harvester Inspection and Maintenance
 - 1. Routine maintenance
 - 2. Regular maintenance
 - 2.1 Inspection and maintenance at 50 hours (run-in period)
 - 2.2 Inspection and maintenance at 100 hours
 - 2.3 Inspection and maintenance at 200 hours
 - 2.4 Inspection and maintenance at 300 hours
 - 2.5 Inspection and maintenance at 400 hours
 - 2.6 Inspection and maintenance at 500 hours
 - 2.7 Inspection and maintenance at 800 hours
 - 2.8 Inspection and maintenance at 1500 hours
 - 2.9 Inspection and maintenance after 1500 hours
 - 3. Maintenance after-season
- 2. Figures for inspection and maintenance in different Sections
 - 1. The cutting and conveying Section
 - 2. The threshing/cleaning Section
 - 3. The Driving Section
 - 4. The Engine Section
 - 5. The Electric Section
 - 6. The hydraulic Section

The list of consumables

3. Appendices

- 1. Table of chain parameters for different Sections
- 2. Table of tightening torque of nuts/bolts of different Sections
- 3. Schedule of commonly used bearings

1. Yanmar Combine Harvester Inspection and Maintenance

Due to the machine's operating, vibration, and wearing of the machine parts changes in load and the unique characteristics of the environment in which farming machines have to operate when working, the technical conditions of the harvester will deteriorate, reducing machine's efficiency, and coordination between different sections, even leading to serious accidents. To prevent the above from taking place and ensure that the harvester operates normally and prolong its working life it is necessary to subject each and every section, every part and component to inspection, cleanup, tightening and tuning and when needs be, replacement of part. This is called the harvester's inspection and maintenance.

No	Content of inspection and maintenance	Item
1	Clean up weeds and straw wound between the driving sprocket and axles, clean up	
1	weeds and straw wound on the driving pulley axles	
2	Clean up soil and straw that have got into the pulley grooves	
3	Check the spring for tension of pick-up chain to see if it is ok. It tension is not adequate, remove chain link	1-10
4	Check the pick-up tine, replace in case of serious deformation or damage.	1-2
5	Lubricate moving chains, oil nipples, and cutting blades. Clean up soil, weeds and straw on the cutting blades. Check the blade wearing and upper/lower blade clearance.	
6	Check the retaining pin where the cutting shaft 1 and 2 are joined. In case of looseness, hammer it to right	1-36
7	Clean up all the cleaning ports. (chiefly the two spiral ports)	
8	 Clean up straw an weeds on the concave sieve and shaking sieve in the threshing chamber (very important when the crops are green or high moisture). Check the concave sieve wearing and replace when necessary Refrain from flushing with water the electric elements, shaking sieves and all the spirals as that may cause trouble or rust on the parts 	2-12 2-13 2-14
		2-10
9	Check the threshing knife and grind or replace when necessary	2-11
10	Check on the threshing teeth, invert them or replace when necessary	2-3 2-15
11	Check and adjust the clearance between the straw holder bed and feed chain to 0, lubricate the straw holder bed spring	2-20 2-21
12	Check crawler tension and adjust if necessary. Soil, straw and weeds that have got into the crawler sprocket, track roller, idling wheel, carrier roller, frame and range shift must be cleaned up as that will increase driving impedance, reduce power output and clause undue wearing of crawler and crawler sprockets	3-3
13	Check and clean up air filter element, pre-cleaner, hydraulic oil cooler, radiator screen and engine dust hood	4-4 - 4-9
14	Check engine oil, cooling water, electrolyte for leakage	4-10
15	 Fill the fuel tank up Be sure to let the fuel settle for over 48 hours before filling 	4-13
16	Start engine and check all sections operate normally (including checking to see if the sensor of threshing depth are activated)	5-3 - 5-7

1. Routine maintenance

2. Regular maintenance

2.1 hispection / maintenance at 50 hours (break in period)		
No	Content of inspection and maintenance	Item
1	Finish the above described routine maintenance	
2	Check the tension of the chains and belts.	1-2
3	Check the free play of threshing clutch lever and cutting clutch lever.	1-20 2-59
4	Check crawler tension.	3-5,3-6
5	Check on the operating of the steering system.	3-25
6	Tension of the fan belt (first time)	4-9
7	First time change of engine oil and filter. Do that at every 100 hours hereafter	4-10,11,
,		12
8	Water separator must be drained every 50 hours and cleaned up every 100 hours.	4-2

2.1 Inspection /maintenance at 50 hours (break-in period)

2.2 Inspection and maintenance at every 100 hours

Content of inspection and maintenance	Item
Finish the inspection and maintenance at every 50 hours as described above.	
Check on the tension of Cutting clutch, threshing clutch and driving belt	1-19 2-59
Check all the safety fuses and warning devices	5.67
Replace the engine oil at every 100 hours	4-10
	Content of inspection and maintenance Finish the inspection and maintenance at every 50 hours as described above. Check on the tension of Cutting clutch, threshing clutch and driving belt Check all the safety fuses and warning devices Replace the engine oil at every 100 hours

2.3 Inspection and maintenance at every 200 hours

No	Content of inspection and maintenance	Item
1	Finish the inspection and maintenance at every 100 hours as described above	
		1-19
2	Check on the tension of cutting clutch, threshing clutch and driving belt	2-59
		3-1
2	Dismount the generator and clean up (refrain from hitting with hard object the	5.2
3	motor's magnet)	5-2
4	Check all the safety fuses and warning devices	5-2
5	Check on the wearing of the re-threshing drum teeth and invert direction when	5670
3	necessary	3-0,7,8
6	Apply grease where the spirals join and the re-threshing drum spline.	2-15
7	Check clearance and wearing of the cutting blades. Adjust or replace if necessary.	2-42,2-17
0	Check on the bearing /bearing sleeve of the driving tension arm, replace or apply	2 16 17
0	lubricant when necessary	2-40,47
9	Check on the crawler sprockets for wearing. Replace or exchange right and left if	2 0 2 10
	possible.	5-9,5-10
10	Check the cooling system water pipes for leakage (especially the water drainage	4.2
10	pipe). Replace water separator element every 200 hours)	4-2

2.4 Inspection and maintenance at every 300 hours

No	Content of inspection and maintenance	Item
1	Check wearing of star wheels. Exchange wheels left and right or replace if necessary.	1-11,12
2	Check up and tighten all bolts of the cutting section.	

2.5 Inspection and maintenance at every 400 hours

No	Content of inspection and maintenance	Item
1	Finish the inspection and maintenance at every 300 hours as described above	
2	Check up on the wearing of the bearings and oil seals at the driving link-lever of the	1-16,17,18
	cutting blades	- , - , - , -
3	Check up on the wearing of the guide rail of pick-up chain and upper conveying chain. Repair or replace if necessary.	1-6,1-7
4	Check distance of upper convey chain guide rails. Replace if it exceeds 30 mm.	1-28,29
5	Check wearing of the pick-up sprocket flat key. Replace if it is seriously worn.	1-8
6	Check wearing of star wheels. Replace if it is seriously worn out.	1-11
7	Check wearing of guide rod and anti-wind rods and adjust them if necessary.	1-34,1-41
	Check one way clutch, clean up and lubricate.	
8	• Be sure to keep the one way clutch clean. When assembling, be sure to	3-21,22
	apply the Yanmar-exclusive NSK grease	
9	Check wearing of tension rollers and replace when wearing is serious	1-5,2-52
	Check wearing of tension foners and replace when wearing is serious.	1-31
10	Clean up accelerator wire, cutting clutch wire, straw discharging switch wire and lubricate them.	
11	Check up on all winnower fan bearings and replace if necessary	2-34
12	Check the height of each blade of the spirals.	2-37,38, 39.41
13	Check bearing at the top of 2nd lift conveyor and replace if necessary.	2-45
14	Check wearing of grain lift conveyor vane and repair or replace if wear seriously.	2-40
15	Check tension roller bearings of threshing belt and replace if it is seriously worn.	
16	Check wearing of concave screen retainers. If much un-threshed grains, they must be replaced	2-14
17	Check wearing of re-threshing drum teeth and replace them when necessary.	2-15
18	Check wearing of straw cutter bearing and replace if wearing is serious.	2-48
19	Check suction fan for deformation and cracks.	2-33
20	Apply grease to the suction fan spline.	2-35
21	Check the tension arms of the driving belt.	3-2
22	Check axle oil seal and replace if oil leaks.	3-18
23	Check whether combine stops moving when HST is in neutral position. If not, adjust HST lever links.	3-22
24	Check and adjust the free play of the brake pedal	
25		3-20,2-62,
25	Change on in gear boxes and transmission.	63,64
26	Check up on generator shaft 6201, replace when necessary	5-2
27	Replace air filter element every 400 hours	4-5,4-6
28	Check on the connections of the electrical wiring, clean them of dirt and grease	
29	Change hydraulic oil and filters and make sure that all hydraulic oil pipe connections do not leak.	6-2,6-3

2.6 Inspection and maintenance at every 500 hours

No	Content of inspection and maintenance	Item
1	Finish inspection and maintenance at every 400 hours as described above	
2	Check wearing of the shock absorber rubber of the pick-up and replace if necessary.	
3	Check wearing of pick-up chain rollers and replace if necessary.	1-4
4	Check wearing of the upper conveyor chain tension roller and the lower conveyor	1-24,32,33
4	chain tension roller and replace them if wearing is serious.	1-22,23,27
5	Check to see if chaff discharge lever moves smoothly.	2-1
6	Clean up fuel lines (fuel tank, fuel pipe, water separator and fuel filter element etc)	4-1,4-2
0	and replace in case of damage.	4-3
7	Check battery breather. Clean up rust/dirt on battery and cable contact faces.	5-1

2.7 1113	beetion and manienance at every 500 nours	
No	Content of inspection and maintenance	item
1	Finish inspection and maintenance at every 400 / 500 hours as described above	
2	Check wearing of the guide rails of all chains and repair or replace if wear seriously.	1-6,7,28, 29,41
3	Check wearing of rake-in belts and replace if wear seriously.	1-21
4	Check linearity of cutter blade and if deviation exceeds 2mm, correct it with washers when re-assembling.	1-15
5	Check cutter blade drive arm support poles (3 pieces), they need constant pre-tightening	1-17
6	Check wearing of all convey chains and replace in case of serious wearing.	
7	Check up on the cutting section lower convey drive sprocket, assist convey drive sprocket and pick-up roller and replace when necessary.	1-4
8	Check wearing and cracking of all belts and replace if necessary.	
9	Check wearing of dusting brush. When grain are carried to outside and cause loss, it must be replaced.	2-2
10	Check clearance of straw holder bed and feed chain. If it can not adjust to 0 mm, replace straw holder plate.	2-19
11	Check wearing and ageing of rubber seals of the shaking sieve.	2-28
12	Check for loosening of the shaking sieve fin seat and replace where the loosening is serious.	2-27
13	Check wearing of the shaking sieve fin and the plastic bearings and replace if wearing is serious.	2-25,26
14	Check up wearing of all screw conveyor spirals and replace if wearing is serious.	2-37,38 39,41
15	Change oil in all gearboxes and transmission.	
16	Check up on all rotating wheels in the driving section and their bearings and oil seals, replace where necessary	
17	Check up on the wearing of crawler guides.	3-7,8
18	Check up on starting motor bearings 129129-77230, 129129-77240, replace where necessary.	
19	Clean off scaling in the cooling water system	
20	Check to see that auto/manual threshing depth sensors are effective.	5-5
21	Check for cracking on cutting section lift cylinder support bases and weld if there is any crack.	

2.7 Inspection and maintenance at every 800 hours

2.8 Inspection and maintenance at every 1500 hours

No	Content of inspection and maintenance	Item
1	Finish inspection and maintenance at every 800 hours as described above	
2	Check the cutting section frame is leveled. If height difference exceeds 30 mm,	
	adjustment must be made.	
3	Check wearing of pick-up chain case and covers. Repair or replace if wear seriously.	
4	Check the bevel gears 22 of the 2 cutting shafts. If there are serious cracks or wearing, they must be replaced by pairs.	1-37
5	Check all tension arm bearings and replace where necessary	
6	Check the threshing drum top plate, rear reinforcement plate and the inlet. In serious cases, reinforcement plates must be welded on	2-7,2-8
7	Check wearing of chaff discharge fins and replace if wearing is serious.	2-1
8	Check wearing of the feed chain guide rail. Repair by welding or replace if necessary.	2-22
9	Check wearing of the threshing drum hole cover and invert directions or replace if necessary. Check wearing of the re-threshing drum bearing link plate.	2-4,16
10	Check wearing of re-threshing drum shaft diameter and bearing (front and rear) and replace if necessary.	2-17

11	Check wearing of the straw discharge chain guide rail, tension wheel and bearings. Repairs or replace if necessary.	2-49,2-52
12	Check wearing and position of the straw discharge bars and guide bar. Adjust or replace if necessary.	2-50,51
13	Check straw cutter shafts and when bearings have lost motion, replace them.	2-47
14	Check the spline of he suction fan and replace if wearing is serious.	2-35
15	Check the accelerator wire, speedometer wire, cutting clutch wire for seizure or damage, clean up or replace.	
16	Check on engine valve clearance (0.15-0.25 mm), injection pressure of the injection nozzle (200-220kgf/cm2) and adjust them or replace if necessary.	
17	Check engine oil drainage pipe (rubber hose) for ageing and replace if necessary.	
18	Check the air inlet/exhaust pipes for ageing, cracking and replace if necessary.	
19	Check the cooling water pipes for leakage or ageing and replace if necessary.	
20	Check the threshing depth motor. When the nylon worm gear is damaged, replace. Check limit switch and the clearance between the limit point of upward conveyance and the limit switch	1-40
21	Check all hydraulic pipes, connections, cylinders for leakage and replace if necessary.	

2.9 Inspection and maintenance after over 1500 hours

No	Content of inspection and maintenance	Item
1	Finish the inspection and maintenance at every 1500 hours as described above	
2	Check crack of all convey chain cases. Repair by welding or replace if necessary.	
3	Check wearing of all convey chain guide rails and replace if necessary.	1-28,1-29
4	Check the spline at where spirals join and replace where wearing is serious.	2-44
5	Check chassis for cracking and repair by welding or replace where necessary.	2-4
6	Check the bearings and shaft sleeves in the wheel systems and replace where	
0	necessary.	
7	Check wearing of the spline axle shaft and replace is wearing is serious.	3-19
Q	Check HST oil seal and wearing of the power input shaft spline sleeve. Replace the	
0	oil seal if it leaks and replace the spline sleeve if it is worn out.	
9	Check the lift cylinders for oil leakage and repair or replace if necessary.	
10	Check fuel injection pump plunger and replace where wearing is serious.	4-16
11	Check injection nozzle needle valve and replace if wearing is serious.	4-16
12	Check for erosion of the silencer and repair or replace where there is burnt-through.	
13	Change the coolant.	
14	Replace all rubber oil pipes and water pipes.	
15	Replace the battery.	5-1

3. Maintenance after season (for long time disuse)

No	Content of inspection and maintenance	Item
1	Thoroughly clean up the combine, grains remained at any location will invite rats, it	
1	will make their nests there and gnaw the cables.	
2	Retract the side crop-dividing poles	
3	Lower the cutting section.	
4	Set all levers to OFF position.	
5	Loosen up the crawler and belts in all sections and place flat wooden planks beneath	
5	crawlers	
6	Apply rust proof oil to exposed locations that are easy to grow rusty and apply	
0	grease to all the grease nipples of the chassis wheel systems	
	Completely drain the water tank.	
7	• Open the radiator cover only after engine has stopped and temperature	1-13
/	has dropped to 40 °C, turn the flywheel manually to thoroughly drain the	 1 <i>5</i>
	cooling water.	
8	Fill the fuel tank up with fuel as empty tank can produce condensate which will	4-3
0	cause rust in the tank walls.	75
	Fully charge the battery and remove it from the combine and keep it in cool and	
	well-ventilated place.	
	• Clean up the battery terminals with sand paper, and apply grease to	
	prevent erosion.	
	• When dismounting the battery, be sure to remove the negative terminal	
9	first and follow up with the positive terminal. When mounting it, do in	5-1
3	reverse order.	51
	• If the battery is to be kept mounted on combine, be sure to remover the	
	connection wire from negative terminal. However, even not in use, the	
	battery will discharge and that is why one must charge it once a month.	
	Where possible one should start the machine once in a month and keep it	
	running for over 10 minutes.	
10	Keep the combine in a dry, well ventilated and free from rain.	

2. Figures for inspection and maintenance of different Sections

Section	Item	Contont	C	1	1 1	Suited to	o type: AW448T	-	
Cutting	11	Content	Cr	op d	op divider clearances				
1400					lard (mm)	llue (mm)			
351 320 310 419				See f	See figure left				
		4		Adju	st each crop divider as per	r dimensi	on requirements	shown in	
				figur	e. Failing that there may	be poor	cutter driving	and poor	
116		31		perfo	rmance of stalk- conveying	g etc. If c	rop divider is det	formed or	
	5			dama	ged, it shall be replaced				
9 1	<u> </u>			No	Description		Part No	Q'ty.	
400	4(00		1	Board Rr, large grass		1E9060-18000	1	
	Ľ			2	Board, small grass		1E8550-18300	2	
				3	Board C, large grass		1E9060-18151	1	
				4	Board L, large grass		1E9060-18251	1	

Section	Item	Contont	Diale	in tine deformation	Suited	to type: AW448T	
Cutting	1-2	Content	PICK-	up time deformation			
C NFL X		$\parallel $	Star	idard (mm)	Limit v	value (mm)	
\odot	\setminus	$ \bigcirc$	See	figure on left			
1 Alexandre			Visu	ally check that the pick-u	p tines	are at right angle	with the
	ĸŊ		pick	-up plate. If they are eve	erything	is ok. In case c	of serious
			defo	ormation or damage replace t	them		
		@ 					
	<u> </u>	r _	No	Description		Part No	Q'ty.
	ମ ବ	\sim		Pick-up tine 129.5		1E8559-14291	80

Section	Item	Content	Sta	igge	ring of the pick-up	Suited to ty	pe: AW448	ЗT
Cutting	1-3	Content			tine			
	5	\sim	4	Stan	dard (mm)	Limit value	e (mm)	
	\langle		, ,	20-3	0			
	$ \parallel $	\odot	1	Up/c	lown staggering betweer	n the tines of	of adjacent	pick-up
LL S		/		chai	ns should be 20-30 mm.	Attention:	when re-as	sembling
TT THE		/		chai	ns after dismounting ther	n, be sure to	set the ch	ain links
		-		on t	he same horizontal leve	el, otherwise	the tines	will get
	±5mm	3	(conf	used.			
		_ //						
X ON		v]	No	Description		Part No	Q'ty.
The Foll								

Section	Item		Wea	aring of the internal	Suited to type: AW448T
Cutting	14	Content	diar	meter of the pick-up chain	
			roll	er	
				Standard (mm)	Limit value (mm)
				Diameter 15	Diameter 16
				Measure the inner diameter	of the pick-up chain roller, if it
	II a			exceeds 16 mm one must rep	place the roller bushing.
		P			
	I JA	\cup			
				No Description	Part No Q'ty.
				1 Bushing $15 \times 18 \times 25$	1E6310-27630 4

Section	Item	Contont	Pick-up	sprocket	and	tension	Suited to	type: AW448T	
Cutting	1-5	Content	sprocket						
1 h			Star	ndard (mm)			Limit va	lue (mm)	
	P		Dia	meter 15			Diameter	r 16	
	Rep	lace them if	excess	ive wear b	between te	eth is found			
	الــــــــــــــــــــــــــــــــــــ	ĥ	No		Desc	ription		Part No	Q'ty.
			1	SPROCKE	ET 15			1E8550-13240	4
	Λ		2	SPROCKE	ET 13,1	TENSION		1E8559-14100	4

Section	Item	Contont		D: al-		Suite	d to type: AW448T	
Cutting	1-6	Content]	PICK	-up panel guide rail			
				Stan	dard (mm)	Limit	value (mm)	
				12		2		
				Mea	sure the thickness of panel	guide	rail and repair or	replace if
•	•	Ó		there	e is excessive wearing			
			9					
			-	No	Description			Q'ty.
				1	COVER R, PICK-UP CAS	E	1E8922-14210	1
				2	COVER L, PICK-UP		1E8922-14200	1
				3	COVER CL, PICK-UP		1E9060-14220	1
				4	COVER CR, PICK-UP		1E9060-14230	1

Section	Item	Contont		Woori	ng of nick up guide rail	Suite	d to type: AW448T	
Cutting	1-7	Content		wearr	lig of pick-up guide fait			
	111-6	6		Stan	dard (mm)	Limi	t value (mm)	
		A		3		1.5		
		AT \\		Mea	sure the thickness of pick-up	p finge	er guide rails both	upper and
		12h		lowe	er, repair or replace where the	ey are e	excessively worn	
		51 1	7					
	I₩ f		[No	Description		Part No	Q'ty.
1 LISA	8	EVT –	-	1	RAIL R, TINE		1E9060-13340	2
-AGP C				2	RAIL R, AUX.TINE		1E9060-13380	4
7 III				3	RAIL L, TINE		1E9060-13300	2
				4	RAIL L, AUX.TINE		1E9060-13350	4

Section	Item	Contont	Week	ing of	fniels un duising chaft leas	Suite	d to type: AW448T	
Cutting	1-8	Content	wear	ing o	i pick-up driving shall key			
		(Stan	dard (mm)	Limit	value (mm)	
1 DA	٦	$\langle \rangle$		5		4.5		
	Į,	DE-	-	Hold	the pick-up shaft still and	gently	turn the driving sp	rocket. If
	Le la	H-	-	one	feels it is very loose that me	ans tha	at the flat key is wo	orn. If the
	55	a		wear	ing is in early stage one ca	an turr	the flat key for 9	90 degree
	LJ RU			when	n mounting it. If it is excessive	vely wo	orn, it must be repla	lced
	\sim	1		No	Description		Part No	Q'ty.
L KILC	\square	2		1	Key 5×12		22550-050121	4
RIII	X	r		2	Key 5×15		22551-050150	4
				3	SPROCKET 15		1E8550-13240	4

Section	Item	Contont	Wear	ing of nick up goot	Suited to	type: AW448T				
Cutting	1-9	Content	wear	ing of pick-up seat						
8			Stan	dard (mm)	Limit val	lue (mm)				
4										
	3 12		Repl	ace it when the shell has	cracks and	damages. When bea	arings are			
0 200		2	with	out oil or damaged it	needs to be replaced and if the chain					
290			spro	sprocket is excessively worn, it needs to be replaced						
~~~~ (C	2/2	To								
	U,	\$ 007	No	Description		Part No	Q'ty.			
	C	K CH	1	SEAT L		1E8920-13200	3			
		TOD .	2	SEAT, PICK-UP CL		1E8920-13210	1			
	1	0	3	Bearing 6203		24104-062034	4			
			4	SPROCKET 15		1E8550-13240	4			

Section	Item	Contont	Toma	an afniak un akain	Suited	d to type: AW448T	
Cutting	1-10	Content	Tens	on of pick-up chain			
			Stand	lard (mm)	Limit	value (mm)	
		-	223-2	228 (AW448T)			
	+	-Ch	Adju	st the tension length of the s	spring a	and the clearance A	so that it
		sprin	_{g pin} is 2-3	mm. Where there is no roo	om for t	tension, one has to	remove a
Cash 1		$\square$	numb	er of chain links before ad	djusting	. At the same tim	e all four
1 11X X VI	1		chain	s must to subjected to same	adjustn	nent	
spring length (It refers to the			No	Description		Part No	Q'ty.
reference value) re	etention screw	(2-3n	nm) 1	Pick-up chain 140		1E8920-13460	4

Section	Item	Contant	Week	ing of the star wheel	Suited to type: AW448T	
Cutting	1-11	Content	wear	ing of the star wheel		
4	I		Sta	undard (mm)	Limit value (mm)	
	1	$( \ )$	40	(tooth circle diameter)	36	
	<u> </u>	9	M	easure the width of the star wh	eel teeth. As the star whe	eel turns
	(f)		in	one direction, if wearing is not	t much, the wheel can be p	ut in
		26	- rev	verse side. But when wearing	g is serious they have to be	replaced
	D		as	that will lead to disorderly stal	lks, poor threshing effect a	nd
			clo	gging		
28						
	6 -		Ν	o Description	Part No	Q'ty.
			1	Star wheel 330	1E8550-21000	4

Section	Item	Contont	Ver	tical Nonalignment of star wheels	Suited to type	e: AW448T	
Cutting	1-12	Content					
		A	1	Standard (mm)	Limit value (	mm)	
-	Ìĕ		~	0-5	5		
▶ ) @	3			Check the star wheels engagem	ent and make	them alig	n to each
	$\geq$		***	other by adjusting the washer. W	here the vertic	al differenc	e exceeds
The second	····		_	5mm one can use washers for	fine adjustme	nt so that	difference
	$\mathbb{N}$	$\rightarrow \rightarrow$	~	drops below 5 mm. Where t	he star whee	el gear sup	oport has
$\langle \neg \rangle$		$\bigcirc$		deformation one has to put it righ	t		
		à	Σ				
	/	Y		No Description		Part No	Q'ty.
	<b>N</b>						

Section	Item	Contont	Weari	ng of outer star wheel	Suite	d to type: AW448T		
Cutting	1-13	Content		bearing				
			Star	ndard (mm)	Limit	Limit value (mm)		
Man-		h						
-CRO			Chewea	ck the wearing of the star ring is excessive.	wheel	bearing and repl	ace if the	
Solar	-		No	Description		Part No	Q'ty.	
				Bearing 6202UU		1E8552-06220	4	

Section	Item	Contont	Incn	aati	on of outting blades	Suited to	type: AW448T					
Cutting	1-14	Content	msp	ecu	on of cutting blades							
		16	ŝ	Stand	dard (mm)	Limit value (mm)						
	17 10	14 15		See f	igure							
1				Chec	k the cutting blades. If the b	olades are v	vithout any tooth	or broken				
3 13 12	//		(	or de	deformed already, replace them. If due to the deformation of rivets							
				the b	ne blades are slanting, one has to replace the rivets.							
ett.	State of the			No	Description		Part No	Q'ty.				
V and the second					Knife		1E8540-17530	28				
- Contractor	X	- 1			Knife 2		1E8540-17480	23				
		- 18 19			Knife 3		1E8540-17490	4				
					Rivet $5 \times 23$		1E8990-17540	12				
					RIVET 5.0X16, FLAT HD		22631-500160	46				

Section	Item	Contant	Cleara	nce between cutting	Suited to type	: AW448T				
Cutting	1-15	Content		blades						
li L-		. \\	Stand	Standard (mm)Limit value (mm)						
	0E	ĴĞ			0.7					
				Measure clearances between upper blade and fixed blade; where it is						
				excessive adjustment needs to be made using washers. After						
5 places	5 places for adjustment		adjus	adjusting, be sure to clean up ad apply lubricant and tighten M8						
	5 places for adjustment		bolts.	bolts. Move manually the moving cutting blade assembly to be sure						
adjusting by	Nut M8	Unnor	that it	t can operate normally.						
+		blades								
standar	d clearance		No	Description		Part No	Q'ty.			
limit at	below 0.7 r	nm								

Section	Item	Content	Weat	ring (	of bearing of the cutting	Suited	to type: AW448T	
Cutting	1-16	Content	l	blade	driving crankshaft			
0				Stand	dard (mm)	Limit v	alue (mm)	
Ĩ								
	Bearing			Judg serio shaft and l	e the bearings' wearing by t us it needs to be replaced, of may get damaged. Note: 4 eft	he bearir otherwise AW448T	ngs' operation. If we have bearing of the bearing bearing the bearing bear	vearing is ne driving s of right
	9. E			No	Description		Part No	Q'ty.
੍ਹਿਸ . ਪਤਾ				1	Bearing		24104-063034	2
	(I)	) í						

Section	Item	Contont	Wea	ring	of bearing of the cutter	Suited t	to type: AW448T	
Cutting	1-17	Content		bla	ade driving arm			
				Stand	lard (mm)	Limit v	alue (mm)	
	100°							
bearing of the second				If be beari two l	arings wear seriously it non- ng of the driving shaft may ocations of right and left.	eeds to y get dan	be replaced, othe naged. Note: AW	rwise the 448T has
	R)}	(اهــــــــــــــــــــــــــــــــــــ		No	Description		Part No	Q'ty.
	PD -			1	Bearing		24104-062034	2
• V								

Section	Item	Contont	Wearing	g of oil seal of cutting	Suited	to type: AW448T		
Cutting	1-18	Content		blade drive				
0			Stan	dard (mm)	Limit v	alue (mm)		
			See	figure				
ှ ဂိ			Chec	ck the wearing of the oil s	eals. Rep	place if wearing i	s serious.	
	9 * -2			Note: AW448T has two locations of right and left				
A C		0.1						
		Uil seal						
(P)				1				
- Contraction of the second seco	]. (0)		No	Description		Part No	Q'ty.	
				Oil seal VC254005		24430-254005	2	

Section	Item	Contont	Tongi	ion	of Cutting alutah halt	Suited	to type: AW448T		
Cutting	1-19	Content	Tensi		of Cutting clutch beit				
	0	-			lard (mm)	Limit v	alue (mm)		
				60 (c	lutch lever free play)				
				79-81 (spring length B)					
			C	Check cutting clutch lever free play. Standard free play is 60 mm.					
C D			A	Adjust clutch wire (I in the figure). Replace the belt if it is					
E	A A			serio	usly damaged.				
		reg	-						
G	ſ		⊇ON						
H	E		2						
			1	No	Description		Part No	Q'ty.	
				1	V-BELT LB60-AG6		1E8230-51600	1	

Section	Item	Contont	Mo	ovem	ent of Cutting clutch	Suited	to type: AW448T			
Cutting	1-20	Content			wire					
inspection: quarterly	oil annlic	pation: quarte	rlv	Stand	lard (mm)	Limit value (mm)				
				Smoo	Smooth movement					
				Chec apply	k the action of the Cutting	clutch v	wire. If seizure is	detected,		
	12-			No	Description		Part No	Q'ty.		
					Cutting clutch wire		1E8559-65180	1		
				2				1		

Section	Item	Contont	Tensio	n of the rake-in belt	Suited	to type: AW448T	
Cutting	1-21	Content					
Fastening nut fo	or		Stan	dard (mm)	Limit v	alue (mm)	
tension wheel			15-2	0			
K X HAR		Deflec	Pres	s with thumb the mid part of	of belt an	d adjust the belt d	leflection.
XV//		10-15	mm If it o	can not be adjusted, the belt	should b	e replaced	
1 actor		य प्या ।।					
-41 ×			No	Description		Part No	Q'ty.
			1	Rake-in belt A33		1E8559-22280	4

Section	Item	Contont	Tens	sion o	of left lower conveyor	Suited	to type: AW448T	
Cutting	1-22	Content			chain			
	<b>//</b> >			Stand	lard (mm)	Limit v	alue (mm)	
left side spring leng	th the	≩		95-98	3			
95-98mm	3		ግ	Adju	st the length of the tension	spring, so	o that it is between	n 95 to 98
	2	all the second	5	mm.	If the chain is excessively v	vorn, rep	lace it.	
	R		•					
		23						
S S A								
	63	R I						
The second secon	-5-	adjustmer	nt	No	Description		Part No	Q'ty.
IOCK HUL				1	Left lower conveyor chain	l	1E8550-23151	1
spring length				2				
79-81mm								

Section	Item	Contont	Te	nsion of right lower	Suited t	to type: AW448T			
Cutting	1-23	Content		conveyor chain					
right side spring l	ight side spring length adjustment 95-98mm nut		Sta	andard (mm)	Limit v	alue (mm)			
95-98			95	95-98					
				Adjust the length of the tension spring, so that it is between 95 to 98					
Z			<u></u> mi	n. If the chain is excessively v	vorn, rep	lace it.			
6 T			Ţ						
		È							
- Attager		2 =	· · · ·						
		- ma							
	lock nut		N	Description		Part No	Q'ty.		
		·	1	Right lower conveyor cha	in	1E8550-23161	1		
			2						

Section	Item	Contont	Re	eplaci	ing the head convey	Suited	to type: AW448T		
Cutting	1-25	Content		pick	-up tine in right				
				Stand	lard (mm)	Limity	value (mm)		
	Л	Hand convey re	i i i i i i i i i i i i i i i i i i i	_					
		flange	nary	Wher	n mounting the pick-up tin	es in rig	ght head convey, b	be sure to	
hommor in	Ha-	Pick-up	tine	hamn	ner in the tine pin 40 into p	pick-up	tine 100 and the h	ole in the	
direction $\rightarrow$		pin 40		rotary flange as shown in the figure.					
	₩ \	-Diale un tin	2						
right upper	H	r ick-up till	C						
conveyor	μ								
Į	J			No	Description		Part No	Q'ty.	
					TINE 100		1E8800-24400	3	
hammer- in direction		Head convey ro flange Pick-up pin 40 Pick-up tin	tine e	When hamn rotary No	n mounting the pick-up tin ner in the tine pin 40 into p y flange as shown in the fig Description TINE 100	es in rig pick-up ure.	ght head convey, b tine 100 and the h Part No 1E8800-24400	ole	

Section	Item	Contont	Ter	nsion	of left head convey	Suited t	to type: AW448T	
Cutting	1-26	Content			chain			
	<u>a</u>			Stand	lard (mm)	Limit v	alue (mm)	
	NX			3-7				
					st the fastening nut so that	when p	ressed with your	finger the
	<u> </u>			chair	has a deflection of 3-7 mm	at section	on A. adjust the ch	ain links.
A SPS			$\rightarrow$	If the chain is seriously worn, replace it				
	S 12	5 P	-					
THORE	3							
LLet	-							
	lock r	ut i		No	Description		Part No	Q'ty.
				1	Chain L60		1E8800-25800	1

Section	Item	Contont	Ten	sion	of right upper convey	Suited	to type: AW448T	
Cutting	1-27	Content			chain			
				Stand	dard (mm)	Limit v	alue (mm)	
adjustment fastening nut				2-3				
nut	$\geq$ [			Loos	en the fastening nut and	adjust tl	ne adjustment bo	lt so that
-Data -	A clearance 2-3mm				ance A is 2-3 mm. Replace t	the chain	if it is excessively	/ worn.
lock nut				No	Description		Part No	Q'ty.
				1	Upper convey chain 217, I	R	1E8550-26823	1

Section	Item	Contont	Clear	rance i	n guide rails of right upper	Suited t	to type: AW448T	
Cutting	1-28	Content	conve		n			
(1) 01	1 8 1			Stand	dard (mm)	Limit v	alue (mm)	
X Com		0		26		30		
~K.			$\sum$	Meas	sure the clearance between	the uppe	er and lower guid	le rails of
				the u	pper convey chain. If clean	rance is	excessive pick-up	tines are
1 1000		٢		likel	y to be derailed.			
		1	77					
		0	₽	No	Description		Part No	Q'ty.
>			イ	1	RAIL R, CASE TINE		1E8550-26450	1
				2	RAIL, CASE CORNER U	PR	1E8550-26480	1
				3	RAIL R, COVER TINE		1E8550-26780	1
				4	RAIL, CVR.CORNER UP	PPR	1E8550-26800	1

Section	Item	Contont	Clea	rance	in guide rails of left	Suited	to type: AW448T		
Cutting	1-29	upper		er conv	vey chain				
				Stand	dard (mm)	Limit v	alue (mm)		
			26	26 30					
				Measure the clearance between the upper and lower guide rails of					
				the upper convey chain. If clearance is excessive pick-up tines are					
An II				likely	y to be derailed.				
	- <u> </u>								
		=							
	71 -	T					<b>I</b>		
	/ \	, //	$\square$	No	Description		Part No	Q'ty.	
				1	RAIL L, CASE URETHA	NE	1E8550-25220	1	
				2	RAIL L, CVR.URETHAN	IE	1E8550-25260	1	

Section	Item	Contont	Deform	nation and wearing of upper	Suited	to type: AW448T	
Cutting	1-30	Content	convey	v chain pick-up tines			
				Standard (mm)	Limit v	alue (mm)	
	$   \setminus$						
		C d an	Check visually the upper ch leformation and wearing. If are affecting normal operation	ain pick `such de on, repla	-up tines for formation and w ice them.	vearing	
	-///	$\backslash$	Ν	No Description		Part No	Q'ty.
	111			1 Pick-up tine 129.5 (left)		1E8559-14291	10
			,	2 Pick-up tine 129.5 (right)		1E8559-14291	27

Section	Item	Contont	Wearing	of the upper convey	Suited	to type: AW448T	
Cutting	1-31	Content	chain ten	sion wheel			
			Stand	dard (mm)	Limit v	alue (mm)	
			15		16		
			Meas	sure the internal diameter of	of the te	nsion wheel, repl	ace if the
	Ŋ		wear	ing is serious enough.			
		<b>'Đ</b> '	No	Description		Part No	Q'ty.
			1	Pick-up wheel		1E8559-14350	2

Section	Item	Contant	Tens	sion o	of the vertical convey	Suited t	to type: AW448T	
Cutting	1-32	Content	chai	n				
adiu	istment	lock nut		Stand	dard (mm)	Limit v	alue (mm)	
	nut	ູຫ/ ໑	)	5-7				
242000 =//	. Y Ŀ	74		Loos	en the fastening nut, and	adjust t	he adjustment nu	t so that
			5	clear	ance A is 5-7 mm, replace th	he chain i	if it is seriously we	orn out.
D D D D D D D D D D D D D D D D D D D			4					
A Car	-TA	2/2/4						
FIRE		The second	$\langle$					
	CH-	FA	(					
	A clea	rance y	/	No	Description		Part No	Q'ty.
	<b>₹</b> ,5 ² /mm	. ,		1	Chain 30×46 L		1E8559-27151	1

Section	Item	Contont	Wearing	of vertical convey	Suited t	to type: AW448T	
Cutting	1-33	Content	chain rol	ler bearing			
			Stan	dard (mm)	Limit v	alue (mm)	
			Repl	ace the bearing if it is witho	ut oil and	l damaged.	
$\bigcirc$	$\bigcirc$						
الحي کا	Š						
	M						
	9))						
				1			
			No	Description		Part No	Q'ty.
			1	Bearing 6203 UU		24104-062034	1

Section	Item	Contont	Wea	ring	of vertical convey	Suited t	to type: AW448T	
Cutting	1-34	Content	chai	n guide plate				
				Stand	lard (mm)	Limit v	alue (mm)	
		Ц	38					
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ARTER			Inspe	ect the guide plate for ware	e and tea	r. If it is excessiv	vely worn
				out, 1	epair or replace it.			
				No	Description		Part No	Q'ty.
				1	PLATE, CHAIN GUIDE		1E8559-27310	1

Section	Item	Contont	Content Tensio		of aggist converse shain	Suited t	to type: AW448T	
Cutting	1-35	Content	Ten	SION	of assist convey chain			
	re	etention		Stand	dard (mm)	Limit v	alue (mm)	
lock nut		TIT		177-	183			
		ALL	F	Adju	st the spring tension length	so that it	is between 177 to	183mm.
			6	If cha	ain is excessively worn, repl	lace it.	Check the assist c	onvey
			r &	chair	n for deformation and make	repairs.		
			F					
spring	length -		ጣ					
adjustment nut	5511111		∮- '	No	Description		Part No	Q'ty.
				2	Assist convey roller 80x29)	1E8559-27140	1

Section	Item	Contont	Rete	ntion	pin at the joint of shaft 1	Suited	to type: AW448T	
Cutting	1-36	Content	and	shaft 2	2 of the cutting section			
			11	Stand	lard (mm)	Limit v	alue (mm)	
			//					
Retention	Retention pin			In ca	se the retention pin comes o	out, hamn	ner it to its right p	lace.
	Z	- //	,	No	Description		Part No	Q'ty.

Section	Item	Contont	Inspect	ion of the bevel gear	Suited to type: AW448T	
Cutting	1-37	Content	a	nd the O-ring		
			Stand	dard (mm)	Limit value (mm)	
		0	Whe	n such defects as obvious s	tepped wearing on the tool	th surface
			and c	cracks in the tooth and dama	nged corners, it should be re	eplaced.
•						
				1		
			No	Descr	iption	Q'ty.
			1	Bevel gear		1
			2	O-ring		1

Section	Item	Contont	Wearing	g of pick-up horizontal	Suited to type: AW448T				
Cutting	1-38	Content		bevel gear					
			Stand	dard (mm)	Limit value (mm)				
6		-							
		0)	Whe	When such defects as obvious stepped wearing on the tooth surface					
	\frown	Π	and o	cracks in the tooth and dama	iged corners, it should be re	eplaced.			
	\Box	/							
	\sim	_							
	9/		No	Descri	ption	Q'ty.			
			1	Bevel gear	-	1			

Section	Item	Contont	Wearing	g of pick-up lengthwise	Suited to type: AW448T					
Cutting	1-39	Content	2	shaft bevel gear						
			Stan	dard (mm)	Limit value (mm)					
	_		Whe	When such defects as obvious stepped wearing on the tooth surface						
				cracks in the tooth and dama	ged corners, it should be re	eplaced.				
	D/		No	Descri	iption	Q'ty.				
			1	Bevel gear		1				

Section	Item	Contont	Cleara	nce b	etween the vertical convey	Suited t	to type: AW448T		
Cutting	1-40	Content	chain a	and th	e assist convey chain				
Assis	t convey	chain		Stand	lard (mm)	Limit v	alue (mm)		
110010	Free Free D								
				Measure the clearance between the vertical convey chain and the					
		J.		assist	t convey chain the clearar	nce at th	e deepest feed-in	n location	
T				should be 50-55 mm and at the shallowest location clearance should					
	\Rightarrow			be 420-520 mm. Adjust by the vertical conveying stroke adjustment					
-0-0		LŞ -		screw so that it is in a proper place and the vertical conveying					
				reach	es the above-mentioned lim	nit.			
				No	Description		Part No	Q'ty.	
Vertical convey chain				1					

Section	Item	Contont	Cleara	nce between assist convey	Suited to type: AW	V448T	
Cutting	1-41	Content	ch	ain and the guide rod			
			Sta	andard (mm)	Limit value (mm)		
Guid	le rod	1	6-	8			
Guide rou				neck and adjust the clearance nide rod. Improper clearance tting volume is small and w ogging. The guide rod should b	between assist conv will miss the stalk then volume is larg be at the middle of t	rey chai s of str ge, ther he chain	in and the raw when e will be n.
the season		convey cl	hain N	o Description	Part N	No	Q'ty.
יייייייייייייייייייייייייייייייייייייי		3					

Section	Item	Contont	Ch	eck th	e picł	k-up	speed s	shift	Suite	ed to	o typ	e: AW448	3T	
Cutting	1-42	Content												
				Stand	lard (m	m)			Limi	t val	lue (mm)		
AA	A A A A													
			K.	Make	sure	that	pick-up	speed	shift	is	set	at "high	speed'	and
			Į	"stan	dard".									
// /														
	·	\mathbb{D}	9											
				No			Descript	ion]	Part No	Q	Q'ty.

Section	Item	Contont	Chaf	ff disc	harge lever, upper cover	Suited t	to type: AW448T	
Threshing	2-1	Content		of t	hreshing chamber			
				Stand	lard (mm)	Limit v	alue (mm)	
	0 8							
	≥⊬∥∘	HEH	80	Chec	k to see if the chaff dischar	ge lever	moves smoothly.	In case of
			a	seizu	re, dismount it and clean up	and app	ly oil. In case the	threshing
			/	charr	ber upper cover is worn thro	ough be s	sure to repair by w	velding.
				No	Description		Part No	Q'ty.
				10	VALVE, SCAVENGING		1E8550-38820	1

Section	Item	Contont	Г	ust housh	Suited	l to type: AW448T	
Threshing	2-2	Content	L	Dust prush			
			Stan	dard (mm)	Limit	value (mm)	
	<u></u>	- 70.		ring or bristle fall-off can o	cause lo	osses that grains an	re thrown
			with	discharge straw.			
	TUT	I I I I I I I I I I I I I I I I I I I					
House and the second	ر م ا	$\gamma' \setminus \mathcal{I}'$	/				
CCC.							
	[)) /	d	1		r	
1 11 11		Dust brus	sh No	Description		Part No	Q'ty.
			1	BRUSH, PROTECT		1E8380-39584	1

Section	Item	Contont	Weal	ring o	r deformation of	Suited t	to type: AW448T	
Threshing	2-3	thres		shing	tooth			
	\ \		_	Stand	lard (mm)	Limit v	alue (mm)	
- ALA						3		
	KAKA	10	-	Chec	k wearing of threshing teeth	n. As a th	reshing tooth wea	ring is on
191		A AMARS		one s	side only, it can invert. How	vever wh	en wearing or de	formation
- (9) (5) (1) (2) (3)				is ex	cessive, it has to be replaced	l.		
0000	E E		2	No	Description		Part No	Q'ty.
JA I		BR	2	8	Threshing tooth O		1E8559-39310	12
A SI			2	9	Threshing tooth S		1E8559-39320	8
-0 2/0	Ð	27/S	-	10	Threshing tooth T7		1E8559-39330	12
					Threshing tooth R7		1E8559-39340	108
				15	Threshing tooth S		1E8559-39400	56

Section	Item	Contont	Cov	er of	the mounting hole of	Suited t	to type: AW448T			
Threshing	2-4	Content	thre	shing drum						
11 1	П		11	Stand	lard (mm)	Limit v	alue (mm)			
					the front/rear mounting h	ers at every 400 h	nours and			
	Hole cover			tighte	en the fastening bolt of the	e threshing drum shaft. Failing that				
				will increase the threshing drum's radial and axial bouncing, thereby						
					ng damage.					
	Y	γ								
	þ			No	Description		Part No	Q'ty.		
				1	Mounting hole cover		1E8559-39820	2		
	б	\sim								

Section	Item	Contont	Wearing	of the threshing	Suited t	to type: AW448T			
Threshing	2-5	Content	drum fro	ont case					
			Stan	dard (mm)	Limit v	alue (mm)			
	0								
			The	front case serves to prevent	winding	straw. When it is	worn out,		
°			be su	re to repair by welding or re	eplace it.				
			No	Description		Part No	Q'ty.		
			1	CASE CMP.		1E8559-39900	1		

Section	Item	Contont	Wea	ring	of the threshing	Suited	d to type: AW448T	
Threshing	2-6	drun		m's fi	ront end cover			
				Stand	dard (mm)	Limit	value (mm)	
) L					
		1 K	/	Chec	k up on the wearing of the t	threshi	ng drum front-end co	ver. If it
	7////	$\langle A \rangle$		is in	an early stage, repair by	weldir	ng is possible. If we	earing is
	\sim	20) /		serio	us, replace it.			
Hala		¥ '	k	No	Description		Part No	Q'ty.
Hole	\mathcal{T}	M	l.	16	Threshing drum front cove	er	1E8550-39500	1
3	II V		/)	25	Reinforcement plate A		1E8552-39860	3
				26	Reinforcement plate B		1E8559-39870	1
				20	Right scraper		1E8540-39780-1	1

Section	Item	Content	Wearin	g of inlet port of	Suited t	to type: AW448T	
Threshing	2-7	Content	threshi	ng chamber			
			Sta	ndard (mm)	Limit v	alue (mm)	
V	1		ÿ				
		<u></u>	Ch	eck up on the wearing of inle	et port of	threshing chambe	er. In case
				worn-out, repair by welding o	on an iron	plate.	
Threading	TTIN	AN THE	No	Description		Part No	Q'ty.
i nresning inlet							

Section	Item	Contont	Clea	aranc	e between threshing	Suited	to type: AW448T	
Threshing	2-8	Content	dru	drum and rear retention plate				
				Stand	dard (mm)	Limit v	alue (mm)	
IN INAN				9-11				
/1 /1///1			4	Chec	k up on clearance between t	the thresh	ning drum and rea	r
	\widehat{A}			reten	tion plate. If clearance is o	out of sta	ndard, the threshi	ng knives
6 6	/	NI ¥	Rear	do no	ot pass in the center of the th	reshing	teeth.	
\square	$\langle \rangle$	re	plate					
	\mathbb{V}		\ \					
	Q] L)					
				No	Description		Part No	Q'ty.

Section	Item	Content	Weari	ng of 2nd (tailings)	Suited	to type: AW448T	
Threshing	2-9	content	r	eturning port			
			Stand	lard (mm)	Limit v	alue (mm)	
			Check	k the wearing of the port, ing on an iron plate.	in case	of worn-through,	repair by
	Careford Contraction))	No	Description		Part No	Q'ty.

Section	Item	Contont	We	aring	of threshing knife of	Suited	to type: AW448T	
Threshing	2-10	Content	tl	hresh	ing drum chamber			
				Stand	dard (mm)	Limit	value (mm)	
		2		2		1		
Threshing knife		E La	A	Whe	n the tooth height of knife is	below	1 mm, it should be	;
The second	\sum		Ϋ́	sharp	bened or replaced.			
		Threshing נ	knife	Note	check on the sharpness of	the knif	e at every 50 hours	s, sharpen
				or rej	place when necessary.			
	K Q O	L		No	Description		Part No	Q'ty.
	-			1	KNIFE F, THRESHER SA	W	1E6692-33240	4

Section	Item	Contont	3:	aring	of the concave	Suited	l to type: AW448T			
Threshing	2-11	Content	thre	shing	g knife					
				Stan	dard (mm)	Limit	value (mm)			
Threshing knife Fixing	g bolt									
			•	Whe	n the tooth height of knife is	below	1 mm, it should be			
				sharp	bened or replaced.					
					Note: check on the sharpness of the blades at every 50 hours,					
		3		sharp	oen or replace when necessa	ry.				
		Threshing k	111fe							
		T T		No	Description		Part No	Q'ty.		
	File	18	\mathbb{N}	1	KNIFE F, THRESHER SA	W	1E6692-33240	5		
			-							

Section	Item	Contont	Wearin	ng of concave screen	Suited	to type: AW448T	
Threshing	2-13	Content					
			Stan	dard (mm)	Limit v	alue (mm)	
		— <i></i>	3.0				
• • • • • • • • • • • • • • • • • • •	ejejej	[]9]0[]9])	Take	out the concave check on t	he damag	ge or wearing of th	ne screen.
			If the	e grid width is below 2 mm,	replace i	t.	
	╈╋╢╄		No	Description		Part No	Q'ty.
│ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │	╶╢┊║┧┽	│ 	1	Screen		1E8922-33503	1

Section	Item	Contont	Wearin	ng of concave screen	Suited	to type: AW448T	
Threshing	2-14	Content		retainer			
			Stan	dard (mm)	Limit v	alue (mm)	
			25		23		
			If the loss	e retainers are excessively (not threshed and remain on	worn, rep head) m	place them, otherwi	se grain
			No	Description		Part No	Q'ty.
	8		1	Retainer A		1E9060-33301	2
			2	Retainer B		1E9060-33321	1

Section	Item		W	•	af an dharah ina damar	Suited	to type: AW448T			
Threshing	2-15	Content	vv ea	aring	of re-threshing drum					
			teeth	ı						
					lard (mm)	Limit v	alue (mm)			
ACAC				As the teeth get worn on just one side, it can be inverted. When						
					wearing is serious, replace them. Make sure that the bolts must be in					
a texter texter texter	Martarlartartartartar			the right direction.						
		replace								
wear	ing 💊 🚽	7								
	<i>b</i>	5								
	\ <i>"</i> ≁									
	threshing	teeth		No	Description		Part No	Q'ty.		
				1	Re-threshing drum tooth		1E8552-41560	24		
				2	Bolts M6×16		1E8559-35380	48		

Section	Item	Contont	Dam	age to link plate of	Suited t	to type: AW448T	
Threshing	2-16	Content	re-thr	eshing drum bearing			
			Star	ndard (mm)	Limit v	alue (mm)	
		N III					
	_		Wh	en damage is found in the	link plate	e of the re-thresh	ing drum
				ring, repair must be made in	time by w	velding.	
			No	Description		Part No	Q'ty.
1//		1					

Section	Item	Contont	Re-thr	eshing drum shaft	Suited	to type: AW448T	
Threshing	2-17	Content					
			Stan	dard (mm)	Limit v	alue (mm)	
			Dian	neter 20	Diamet	er 19.9	
			Whe	n the re-threshing drum sh	naft get	worn where the b	bearing is
			mou	nted, it must be replaced.			
			D				
			No	Description		Part No	Q'ty.
			1	Re-threshing drum shaft		1E8230-41262	1
			2	Bearing		24104-062044	2

Section	Item	Contont	Wearin	g of the re-threshing	Suited	to type: AW448T		
Threshing	2-18	Content	dru	m concave frame				
			Stand	Standard (mm) Limit value (mm)				
o								
			Chec	Check the wearing of the re-threshing drum concave frame. If there				
			is we	orn-through, repair by weld	ling an	iron plate on or re	place the	
			fram	e.				
			No	Description		Part No	Q'ty.	
				Frame		1E8559-41300		

Section	Item	Contont	Wea	aring	of the straw holder	Suited	to type: AW448T	
Threshing	2-19	Content	bed	plate				
				Stand	lard (mm)	Limit v	alue (mm)	
			6	53		48		
		<u> </u>		Adju	st clearance of the straw ho	lder bed	and feed chain to	0 mm. If
00 000	0)0	<u>3</u>	it is 1	not possible to adjust, replac	e the pla	te.	
	ŹΦ	J						
T	FUNCTION							
Stu	raw holde	er bed plate						
				No	Description		Part No	Q'ty.
					Plate		1E8559-49340	4

Section	Item	Contont	Clea	ranc	e between straw	Suited t	to type: AW448T	
Threshing	2-20	Content	hold	er be	d and feed chain			
				Stand	lard (mm)	Limit v	alue (mm)	
	64	1		0				
			2	Chec	k the clearance on a daily	basis. V	When clearance is	detected,
				loose	n bolts to make adjustme	nt. Parti	al plate clearanc	e can be
			\rightarrow	adjus	ted by loosening the faste	ning bo	It of the straw he	older bed
10		â		plate				
		TP	_					
	- J		F	No	Description		Part No	Q'ty.
		<u> </u>		1	Straw keep plate		1E8922-49000	1

Section	Item	Content	Ul	p/dov	vn movement of the	Suited t	to type: AW448T	
Threshing	2-21	stra		aw h	older bed guide pole			
				Stand	lard (mm)	Limit v	alue (mm)	
	A A A A A A A A A A A A A A A A A A A			Chec dism clogg	k the straw holder bed mo ount it and clean up and ging to the threshing drum.	apply o	If any seizure is il. Failing that m	detected, hay cause
	JE N.			No	Description		Part No	Q'ty.
(1000		4						

Section	Item	Contont	Wea	aring	of the feed chain stay	Suited	to type: AW448T	
Threshing	2-22	Content						
				Standard (mm)			alue (mm)	
			4.5		3			
man of a			Chec	Check wearing of the feed chain stay and replace it if wearing is				
1 Add	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			seriou	1S.			
			5					
A A			Ē					
- St	Stay	AL	\leq					
		11 11	_	No	Description		Part No	Q'ty.
				3	Feed chain stay		1E8550-48200	1

Section	Item	Contont	Γ	ensio	on of the feed chain	Suited t	to type: AW448T				
Threshing	2-23	Content									
				Stand	lard (mm)	Limit v	alue (mm)				
chain Bolt M8											
and the st	Mode de de de Sprocket				Adjust the tension spring plate so that sprocket and the						
	s°./k	Sprocket	4	chai	n have no loose part in b	etween	them.				
Feed chain		SCALL I	à								
spring			ĺσ –								
			Ď								
the seate ste) ()	K.F./	ϵ								
	V	Spring pla	ite	No	Description		Part No	Q'ty.			
Adjust so that n	o loosene	ess is		1	Feed chain 58×116		1E8559-48001	1			
between it and	the sproo	cket		2	Sprocket		1E8550-37500	1			

Section	Item	Contant	Toncion	of food abain	Suited	to type: AW448T		
Threshing	2-24	Content	Tension	Ision of feed chain				
			Stan	dard (mm)	Limit v	value (mm)		
		= If th	If the chain cannot be tensioned, remove a certain number of chain					
			links	s. If the roller is worn out rep	blace the	e chain in time.		
			No	Description		Part No	Q'ty.	
			1	Feed chain		1E8559-48001	1	

Section	Item	Contont	Cl	earan	ce of fins in shaking	Suited t	to type: AW448T	
Threshing	2-25	Content			sieve			
				Stand	ard (mm)	Limit v	alue (mm)	
		╢║║┾┿╢┿╍╌	 	Fin cl	earance 15.3			
			┝╌┥	Set th	e clean selection lever to 5	5 and me	asure fins clearan	ce. Make
с, о					ments where necessary.			
о			[No	Description		Part No	Q'ty.
			Π					

Section	Item	Contont	Clea	rance	in between the link-pins	Suited t	to type: AW448T			
Threshing	2-26	Content	Content		shaking sieve fins					
14 - 497				Stand	lard (mm)	Limit v	alue (mm)			
				Diam	Diameter 8 Diameter 7.5					
~ ~ ~ ~	~			Chec	k the clearance between the	e link pla	te and the suppor	ting hole.		
N 000	0 0 0 0 0				In serious cases it needs to be replaced. The figure shows the					
					measuring of outer diameter of the link plate.					
) p Ø	c c		Õ							
Supporting hole	Q	Link	plate	No	Description		Part No	Q'ty.		
)===	=	17	Seal, swing side		1E8230-42822	2		
, , , , , , , , , , , , , , , , , , ,		<i>,</i>								

Section	Item	Contont	Wea	aring	of link pin hole of the	Suited t	to type: AW448T	
Threshing	2-27	Content		sh	aking sieve fins			
				Stand	dard (mm)	Limit value (mm)		
	0		0	0		1.0		
9				Whe	When the plastic supporting shaft of the seats of shaking sieve			
	0		0	blade	es has displacement leftwa	rd and r	ightward exceeds	1mm, it
000 0 0 000 0 0 0000			$\frac{\sqrt{2}}{\sqrt{2}}$	shou	ld be replaced.			
ZANDAN	K K	0000	00	No	Description		Part No	Q'ty.
	y	0	Œ	1	PIPE AF, CHAFF A.CON	N	1E8990-42700	2
00	0	0	<u>0</u>	2	PIPE AR, CHAFF A.CON	N	1E8559-42710	2
				3	JNT.,CHAFF CONN.PIPE	-	1E8559-42720	2
				5	CONNECTOR B, CHAF. A	ADJ	1E8559-42740	2
× \\ /				11	BEARING,FIN		1E8559-43860	48

Section	Item	Contant	Dan	nage	of rubber seal of the	Suited t	to type: AW448T	
Threshing	2-28	Content	shal	cing s	ieve			
(ट्ड) – I					lard (mm)	Limit v	alue (mm)	
	ã.		.0					
			1.P	Chec	k on the damage of the ru	ibber sea	l, replace if the d	lamage is
60.51 61 	\sim		2	serio	us.			
Frank Street	s l	R		No	Description		Part No	Q'ty.
	S L			5	SEAL,2ND FRONT		1E8230-42240	1
				7	SEAL,1ST		1E8559-42470	1
	and the second s	18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	1	8	SEAL,2ND		1E8559-42480	1
0-50-5	29	The second se	"	20	SEAL,SWING REAR		1E8559-42890	1
	ø	1		25	SEAL, SORTING WIND		1E8380-42980	1

Section	Item	Contont	Dam	nage	of shaking sieve guide	Suite	d to type: AW448T	
Threshing	2-29	Content		:	and lubricate			
					lard (mm)	Limit	value (mm)	
16 0	16 0 (12)-3 (12)-3				y grease from time to time	in or	der to reduce weari	ng of the
				guide	es and bearings to reduce no	ise ger	nerated by the shakir	ng sieve.
	17	7		No	Description		Part No	Q'ty.
	Ş- 5	0		1	Guide, front fulcrum		1E8990-42000-1	2
(7)-1 b 12				2	Bearing L, swing rear		1E8230-42030	1
	g- 13			3	Bearing R, swing rear		1E8230-42040	1

Section	Item	Contant	Sea	aling-	off at the two ends of	Suited t	to type: AW448T	
Threshing	2-30	th		e win	nower fan chamber			
				Stand	dard (mm)	Limit v	alue (mm)	
		6						
			•	Chec	k up from time to time a sealing-off is found.	nd make	timely repair by	/ welding
				No	Description		Part No	Q'ty.

Section	Item	Content	De	formation of the	Suited to type: AW448T	
Threshing	2-32	Content		winnower fan		
			Sta	ndard (mm)	Limit value (mm)	
		N A				
000			Ch.	eck up on the blades of the	winnower fan and replac	e them if
			the	re are cracks that may affect t	the operation.	
	Ć		No	Description	Part No	Q'ty.
11	e	111	۲ 1	Winnower fan	1E8550-44440-1	4

Section	Item	Contont	Deferme	tion of the quotion for	Suited	to type: AW448T	
Threshing	2-33	Content	Deforma	ation of the suction ran			
			Stan	idard (mm)	Limit v	alue (mm)	
			Che may	ck up on the suction fan ar	nd replac	e it if there are c	racks that
222 A. L.	VVV		No	Description		Part No	Q'ty.
				Suction fan		1E8559-47402	1

Section	Item	Contont	XX /:		way fan anaustian	Suited	to type: AW448T			
Threshing	2-34	Content	VV I	IUUO	mower ran operation					
				Stand	lard (mm)	Limit v	alue (mm)			
0		T								
				Rota	te the winnower fan manual	ly. If rota	ation is not smooth	, check		
		N NM		the w	vinnower fan shaft bearing.	Replace	the bearing in case	of		
				serio	serious wearing. Straw can easily wind shaft end and give damage to					
				beari	ngs. Remove winding stra	aw.				
TOTICE		Hot								
AL										
	~			No	Description		Part No	Q'ty.		
				1	Bearing		24104-063034	2		

Section	Item	Contont	Sucti	on fan shaft opera	tion	Suited t	to type: AW448T		
Threshing	2-35	Content							
			St	tandard (mm)		Limit v	alue (mm)		
		C	Check suction fan operation and wearing of the spline. Apply						
))o	~	gi	rease in time.					
	\sim) =	<u>-</u>						
			N	No Descrip	tion		Part No	Q'ty.	
			1 Bearing 6202UU			1E8552-06240	1		

Section	Item	Contont		Wea	ring of the spiral	Suited	to type: AW448T	
Threshing	2-36	Content		co	nveyor gutter			
				Stand	lard (mm)	Limit v	alue (mm)	
		~ \		~ 1				
			Chec	k the wearing of the spiral	l convey	or gutter and mal	ke repairs	
653			wher	e it is worn through by weld	ling on ir	on sheet.		
			Ĩ	No	Description		Part No	Q'ty.
LL								

Section	Item	Contont	Waa	anin	x of the 1st converge	Suited t	to type: AW448T			
Threshing	2-37	Content	wea	arınş	g of the 1st conveyor					
			e c	Stand	lard (mm)	Limit v	alue (mm)			
				31 (c	entral part)	28 (c	28 (central part)			
	-0		1	Measure the height of the spiral blade and check on the wearing of						
100				the spiral. In the early stage of wearing it is possible to weld on steel sheet or steel bar along the blade by way of repair, but when wearing						
KARAS			S							
	HABBBB.		i and i	is serious it has to be replaced.						
		太兄り	y "							
		\rightarrow								
				No	Description		Part No	Q'ty.		
				1	1st conveyor		1E8559-45052	1		

Section	Item	Content	W	earii	ng of 2nd (tailings)	Suited t	to type: AW448T	
Threshing	2-38	Content			conveyor			
				Stand	lard (mm)	Limit v	alue (mm)	
	F		V	36 (c	entral part)	entral part)		
Н			le	Measure the height of the spiral blade and check on the wearing of				
			Va	the sp	piral. In the early stage of w	earing it	is possible to wel	d on steel
			alt	sheet or steel bar along the blade by way of repair, but when wearing				
S	The for the second second)K	is ser	ious it has to be replaced			
			=					
				No	Description		Part No	Q'ty.
			1	2nd (tailings) conveyor		1E8550-46200	1	

Section	Item	Contont	Grain l	ift conveyor wearing	Suited t	to type: AW448T			
Threshing	2-39	Content							
			Stan	dard (mm)	Limit v	alue (mm)			
			36 (central part)	33 (c	entral part)			
			Mea	sure the height of the spir	al blade	and check wearing	ng of the		
$\cap \cap$	Λ	A	spira	al, especially the root part.	In the e	arly stage of wea	aring it is		
D. A.A.		— poss	possible to weld on steel sheet or steel bar along the blade by way of						
	Ø][−¬	717	😇 repa	repair, but when wearing is serious it has to be replaced.					
)	\bigcirc							
			No	Description		Part No	Q'ty.		
			1	Conveyor, grain ele.		1E8559-45401	1		

Section	Item	Contont	We	eari	ng of the grain lift	Suited t	to type: AW448T		
Threshing	2-40	Content		C	onveyor vane				
			S	Stand	lard (mm)	Limit v	alue (mm)		
	Conveyor vane			36 20					
			N	Measure the height of the grain lift conveyor vane. In its early stage					
	ť	0	of wearing it is possible to repair by welding on steel plate, but when						
			W	veari	ing is serious, be sure to repl	lace it.			
		-	١	No	Description		Part No	Q'ty.	
				1	Blade, grain elevat'g		1E8559-45390	2	

Section	Item	Contont	We	arir	ng of 2nd (tailings)	Suited t	to type: AW448T		
Threshing	2-41	Content		ret	turn conveyor				
			5	Stand	lard (mm)	Limit v	alue (mm)		
			3	36 33					
			N	Measure the height of the spiral blades and check on their we				wearing.	
\sim	Λ	TH A	Ι	In its	early stage of wearing it	is possib	le to repair by w	elding on	
		s s	steel sheet or steel bar along the edge of the blade, but when wearing						
Ill The state	9/		⊆ i	is ser	ious, be sure to replace it.				
		\sim							
]	No	Description		Part No	Q'ty.	
				1	conveyor		1E8559-46500	1	

Section	Item	Contont	Lu	brica	ant at conveyor gear	Suited t	to type: AW448T	
Threshing	2-42	Content			box			
			/	Stand	dard (mm)	Limit v	alue (mm)	
	<u> </u>	R		Appl	y grease at every 200 hours.			
	/			No	Description		Part No	Q'ty.

Section	Item	Contont	Wearin	g of the 1st conveyor	Suited to type: AW448T	
Threshing	2-43	Content		end cap		
,	, ,		Stand	dard (mm)	Limit value (mm)	
	AN	>>>				
			Chec	ek wearing of the 1st conv	eyor end cap. In the early	v stage of
			wear	ing repair by welding is po	ssible but in case of seriou	s wearing
G			it mu	ist be replaced.		
0/))	13				
		0				
		<u> </u>	No	Description	Part No	Q'ty.
			1	1st conveyor	1E8559-45052	1

Section	Item	Contant	We	aring	of the shaft spline in	Suit	ed to type: AW448T	
Threshing	2-44	Content		cor	nveyor gear box			
					dard (mm)	Lim	it value (mm)	
				Dian	neter 20			
			Repla	ace the spline when it is seri	ously	worn.		
	spline :spline		oline					
				No	Description		Part No	Q'ty.
				1	Shaft, vert.drive 1st		1E8552-45230	1
				2	Shaft		1E8552-45240	1

Section	Item	Contont	2	nd a	anvoyan haaring	Suited to type: AW448	Г
Threshing	2-45	Content	2	na c	onveyor bearing		
28	-37			Stan	dard (mm)	Limit value (mm)	
	-40 -26						
5434	34 39 20 333 53				se of damage of the bearin	g 26 as shown in the fig	ure, replace
- A -	П	- Alar	-53 45	it.			
1 CAR							
8	\mathbf{H}	à	- 10				
36			. 33 - 53		Γ		
48			45	No	Description	Part No	Q'ty.
		- G	>	1	Bearing	24104-062044	1
	-	/T					

							2. The Threshi	ng Section
Section	Item	Contont	tent Wearin		of straw cutter disc	Suited t	o type: AW448T	
Threshing	2-46	Content						
	994 (M	12 T	• •	Stand	lard (mm)	Limit va	alue (mm)	
		: .				1		
Wearing of cutter disc replace with new dis			w disc	Check up on the wearing of the cutter disc. Replace when the tooth				
ARTICLE STATISTICS			5	heigh	nt is below 1mm. Normally	discs at t	the side of high sp	beed shaft
		C	Mannary.	wear early	out first, so one may swap t stage of wearing.	them with	h discs at the ear s	ide in the
···· ·	1	·		No	Description		Part No	Q'ty.
			-	1	Cutter disc 180×27		IJ3810-21050	30

Section	Item	Contont	Cle	earan	ce of the straw cutter	Suited	to type: AW448T	
Threshing	2-47	Content			discs			
	50 Y (10.1	· .e	Stand	lard (mm)	Limit v	alue (mm)	
	-			3-5				
	=	Straw cutter		Chec	k up on the matching clea	arance in	n between the str	aw cutter
grinding side	speed	discs		discs	. Adjust clearance by the ad	ljusting 1	nut at the high spe	ed shaft's
(outer side)				right	side			
low speed cutter	· rinding sid	e VII						
	outer side)	Clearar 3-5mi	nce n					
· · · · · · · · · · · · · · · · · · ·	=- _#	<u></u>						
	- ::-:	3.9.4.47		No	Description		Part No	Q'ty.
· · · · ·	$0_{j_{i_{j_{j_{j_{j_{j_{j_{j_{j_{j_{j_{j_{j_{j_$	stef i Skip						

Section	Item	Content		Stray	Straw cutter bearing		Suited to type: AW448T		
Threshing	2-48	content		Stitu					
	two. WAT the		Standard (mm) Limit value (mm)						
171	$\Delta p p^{2}$	l. This gale	i at	Mak	e timely replacement when	it is worn	out/damaged.		
No CE	, c	┊┙┟┑╸┲╧╼╴		No	Description		Part No	Q'ty.	
		AQ.		1	Bearing 6206UU		1E8552-06260	4	

Section	Item	Contont	Tens	sion (of the straw discharge	Suited t	to type: AW448T	
Threshing	2-49	Content			chain			
Adjust nut Lock nut				Stand	lard (mm)	Limit v	alue (mm)	
				3				
				Adju	st clearance to 3 mm by the	adjust nu	ıt.	
	earance			No	Description		Part No	Q'ty.
			~	1	Straw discharge chain 25>	<70	1E9060-49200	1
				2	Tension roller 60		1E9060-49300	1

Section	Item	Contont	Str	aw d	ischarge chain guide	Suited	l to type: AW448T	
Threshing	2-50	Content			rail			
		· .		Stan	dard (mm)	Limit	value (mm)	
55555°			· .					
。 。	0	0	 	Mak	e timely repair by welding v	when the	e rail is worn/damag	ged.
			8					
	8	٠		No	Description		Part No	Q'ty.
					Straw discharge chain guid	de	1E9060-49152	1
		-						

Section	Item	Contont	Stra	aw d	ischarge guide rod	Suit	ed to type: AW448T		
Threshing	2-51	Content							
\ /// / // KOL				Stand	ard (mm)	Lim	it value (mm)		
		ليشتقن أستنته	·						
				Confirm the position of the guide pole.					
1	БĨ́								
			=						
		19 Miles							
	<u>WWW</u>		<u>@</u> =					1	
	1000			No	Description		Part No	Q'ty.	
i de la companya de l		1	·	1	Guide, strw.dsc.aux.		1E8380-49851	1	
/ . `				2	Rod		1E8550-49752	1	
				3	Rod, straw dschrg. aux		1E8559-49790	1	

Section	Item	Contont	Straw	discharge tension	Suited	to type: AW448T	
Threshing	2-52	Content		roller			
			Stan	dard (mm)	Limit	value (mm)	
			Chee	ck wearing of the tension i	roller a	nd replace when w	vearing is
			serio	pus.			
			No	Description		Part No	Q'ty.
			1	Tension roller 60		1E9060-49300	1

Section	Item	Contont	Tension	of the threshing drum	Suited to type: AW448T	
Threshing	2-53	Content	drive be	lt		
			Star	ndard (mm)	Limit value (mm)	
adjust nut		128	E-132 (AW448T)			
	adjust nut			ust the tension spring length	and check on the damage	of the belt.
	lock nut		Rep	place it when damage is seriou	us.	
	the	ring length se e Standards	No	Description	Part No	Q'ty.
				V-belt LB97-AG8	1E8559-35750	2

Section	Item	Contont	Tensio	n of separator input belt	Suited	to type: AW448T	
Threshing	2-54	Content					
			Sta	andard (mm)	Limit v	alue (mm)	
Adjust nut Lock	nut Se	eparator input	t belt 10	07-111			
				ake adjustment to the tension mage of the belt. Replace it w	on spring hen dama	length and chec age is serious.	k on the
- •			Ν	o Description		Part No	Q'ty.
			1	V-belt SC79W600		1E8559-35760	1

Section	Item	Contont	Son	oroto	or drive balt tension	Suite	d to type: AW448	T		
Threshing	2-56	Content	Sepa	Separator drive belt tension						
	1	lock nut			Standard (mm) Limit value (mm)					
adjustment nut	lock nut			132-	136					
- // 🔨				Mak	Make adjustment to the tension spring length and check on the					
		for ter spring See the Standa	nsion length e ards	dama	nge of the belt. Replace it wl	hen dar	mage is serious.			
	╼╴╒		-	No	Description		Part No	Q'ty.		
San	- <u> </u> -	ve belt		2	Conveying belt SC88W60	0	1E8559-35770	1		
Sepa		ve belt								

Section	Item	Contont	Tensio	n of straw discharge	Suited to type: AW4	48T
Threshing	2-57	Content		drive belt		
adjustment			Stan	dard (mm)	Limit value (mm)	
KAR BA	A.	nut				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RU -	lock nut				
7		Tope (96-1	00 (AW448T)		
	~\/		Mak	e adjustment to the tensio	n spring length and	check on the
all a straight and a straight and a straight			dama	age of the belt. Replace it wl	nen damage is serious	3.
		4,7				
		spring length		1		•
and a second		see the Standards	No	Description	Part No	Q'ty.
\F-			2	V-belt LB41	25123-004101	1 (AW448T)
12						

Section	Item	Contont	Ten	sion	of shaking sieve drive	Suit	ed to type: AW448	3T
Threshing	2-58	Content			belt			
	19. j	÷		Stand	dard (mm)	Lim	it value (mm)	
adjustment	nut	lock nu	t	84-8	8			
	(())			Mak	e adjustment to the tensio	n spi	ring length and c	heck on the
84-88				dama	age of the belt. Replace it wh	hen d	amage is serious.	
		X.	et.	No	Description		Part No	Q'ty.
L OX C				2	V belt LB37		25123-003700	1 (AW448T)
	r 1							

Section	Item	Contont	Tensio	n of threshing clutch	Suited to type: AW448	3T
Threshing	2-59	Content		belt		
			Stan	dard (mm)	Limit value (mm)	
Ē			145-	148 (AW448T)		
			Thre	shing clutch lever has a fre	e play of 25-35 mm. A	Adjust clutch
			rod l	B in the figure. Check for	damage of the belt and	l replace if it
	<u> </u>		is set	rious.		
C ON			[No	Description	Part No	Q'ty.
^ 25-35mm		вС	2	V belt SB44W800	1E8559-51240	2 (AW448T)

Section	Item	Contont	Tension	of straw cutter drive	Suited	to type: AW448T	
Threshing	2-60	Content		belt			
	· .'	· · ·	Stan	dard (mm)	Limit	value (mm)	
grass cutter transmi	ssion bel	t ·	· 140-	144			
			Adju repla	ist the length of spring A, ace if they are serious.	check	for the belt's dar	mages and
	l – otanhina	spring lengt	th No	Description		Part No	Q'ty.
adjustment	lock n	138-142mn ut	n 1	V-belt 60		25123-006001	1
nut	d nee		1.1				

Section	Item	Content	Thr	echir	ng gear box	Suited	to type: AW448T	
Threshing	2-62	Content	1 111	CSIIII	ig gear box			
				Stan	dard (L)	Limit v	alue (L)	
(~- n-			–	1 litt	er			
Oil supply port				Repl	ace at every 400 hours.			
1 1221				No	Description		Part No	Q'ty.
					Yanmar gear oil #90			

Section	Item	Contont	Thres	hing drum gear box	Suited	to type: AW448T	
Threshing	2-63	Content					
	_	?	Stan	dard (L)	Limit v	alue (L)	
	₹ 		0.51	itter			
Oil port	A A A A A A A A A A A A A A A A A A A		First	replacement shall be at 50 l	hours and	l thereafter at 400	hours.
		$f = \langle \rangle$	No	Description		Part No	Q'ty.
		→ → → Drain plug		Yanmar gear oil #90			

Section	Item	Contont	Fe	ed ch	ain gearmission box	Suited t	to type: AW448T	
Threshing	2-64	Content						
				Stand	lard (L)	Limit v	alue (L)	
· MEN	1111			0.3 li	tter			
Oil supply port				Repl	ace at every 400 hours.			
		/	177	No	Description		Part No	Q'ty.
	((.)/		Yanmar transmission box	oil #90		
		Drain plug						

Section	Item	Contont	Tension	of tra	Insmission drive belt	Suited to type: AW	448T		
Driving	3-1	Content							
		4		Stand	lard (mm)	Limit value (mm)			
		5		181-	181-188				
		3	Ţ	Loos	Loosen the fastening nut and adjust the length of the tension spring,				
			6	at the	e same time check for the da	amage of the belt. Re	eplace in serious		
	1			cases	5.				
	90.			No	Description	Part No	Q'ty.		
				3	V belt LB50AG6	1E8990-51260	2		

Section	Item	Contant	Tension a	rm b	earing of	Suited t	to type: AW448T	
Driving	3-2	Content	transmiss	sion d	rive belt			
				Stand	dard (mm)	Limit v	alue (mm)	
		Care and Car						
				Appl	y grease from time to time.			
		111		No	Description		Part No	Q'ty.

Section	Item	Contant	Inc	naatio	an of the energies	Suited to type: AW448T	
Driving	3-3	Content	1115	pecuo	on of the crawler		
				Stand	dard (mm)	Limit value (mm)	
لاحقاص ال	4 themes	and the second	17-24-2				
			Ø	Chec widtl	k for their damage and repl h of the crawler is 400 mm, ir	ace when serious. Note: 42 links.	AW448T
				No	Description	Part No	Q'ty.
				1	Crawler	1E8800-73903	2



Section	Item	Contont	Та	ncion of	f the anomalon	Suited t	to type: AW448T	
Driving	3-5	Content	Ie		the crawler			
				Standar	d (mm)	Limit value (mm)		
	tension bolt 50 nut 14							
1 - 1 - 1		·	File	No	Description		Part No	Q'ty.
/ second track r	oller							

Section	Item	Contont	Ta	ncion	of the energies	Suited t	to type: AW448T	
Driving	3-6	Content	Ie	nsion	of the crawler			
	Δdiust	screw	Lock nut	Stand	dard (mm)	Limit v	alue (mm)	
\sum				10-1	5			
		. Čim		Lift	combine as above described	ł. Check	and adjust the ter	nsion bolt
		<u> </u>		so tl	hat the 3rd track roller ha	s a clea	rance of 10~15m	im to the
- M M	an))'	Ŵ.		craw	ler.			
		ſ		Note	: Do not lift the fuel tank.	It cause	s deformation of	the tank.
TAN	//			Be s	ure to lift the machine	at a lev	el place. Use a	a jack of
1				capa	city over 3 tons.			
		-						
				No	Description		Part No	Q'ty.

Section	Item	Contont	Incne	ation	of anomion quido	Suited t	to type: AW448T	
Driving	3-7	Content	Inspe	ction	of crawler guide			
				Stand	lard (mm)	Limit v	alue (mm)	
			Ţ	Chec wear	k up on the wearing of the original serious.	crawler g	uide and replace w	/hen such
				No	Description		Part No	Q'ty.
				1	Crawler guide		1E8555-73450	4

Section	Item	Content	Wearing	of th	ne crawler sprocket	Suited	to type: AW448T	
Driving	3-10	Content	wearing	or u	ie clawiei spiockei			
			;	Stand	lard (mm)	Limit	value (mm)	
				30		20		
8			1] 1	Chec sproc right. Meas tooth	k up on the wearing of th ket's wearing is in one, spu When wearing is in serious oure at the point where toor width should be more than	e crawl rocket c s condit th top i 20 mm	er sprocket. As the can be exchange the ion replace them. s 15 mm from the	e crawler e left and base, the
	\sim	+		No	Description		Part No	Q'ty.
				1	Sprocket, 90-7T175		1E8922-73010	2

Section	Item	Contont	Wooring	a of	Etha idling whas	Suited t	to type: AW448T			
Driving	3-11	Content	wearing	g oi	the fulling wheel					
			S	Stand	lard (mm)	Limit v	alue (mm)			
			2	250 240						
	(555 F 3	- States	Ν	Measure the diameter of the idling wheel. If it is excessively worn						
			У	you need to replace it. When the bearing is seriously worn you need						
				to replace it. Check also on the wearing of the idling wheel tension						
l I		6)) //	a	arm.						
	(l, z)	₹Y/	·							
			1	No	Description		Part No	Q'ty.		
				1	Idling wheel		1E8550-73180	2		
				2	Bearing		24104-062064	4		
				3	Oil seal		1E8559-73060	2		

Section	Item	Contant	Wearing	oftwa	al nollon	Suite	d to type: AW448T			
Driving	3-15	Content	wearing		ick roner					
				Stand	dard (mm)	Limit	value (mm)			
				220						
					Measure the diameter of the track roller and replace it if wearing is					
				exce	ssive.					
				No	Description		Part No	Q'ty.		
			1	ROLLER 220B		1E8550-73100	6			
			2	ROLLER 220B		1E8550-73110-1	2			

Section	Item	Contont	Waa		of Courier vollor	Suited	to type: AW448T			
Driving	3-17	Content	vvea	ring	ing of Carrier Toner					
				Stand	dard (mm)	Limit v	alue (mm)			
				138						
	JIMEL			Meas	Measure the diameter of the carrier roller and replace it if wearing is					
- Control of					ssive.					
))								
\sim										
	\longrightarrow									
-67	1 72	< 11		No	Description		Part No	Q'ty.		
≝_/	[//		, Al	1	Carrier roller		1E8559-73500	2		
				2	Bearing		24010-060044	4		
				3	Oil seal $28 \times 42 \times 9$		1E8420-73150	2		

Section	Item	Contont	Wearing	of the	e transmission axle oil	Suited to type: AW448T	
Driving	3-18	Content			seal		
				Stan	dard (mm)	Limit value (mm)	
0				Repl	ace when oil leak is found.		
		1	-	No	Description	Part No	Q'ty.
	Oil	seal	71		SEAL, QLFY548016	1E8540-55460	2

Section	Item	Contont	Wearing	g of t	he axle shaft spline	Suite	d to type: AW448T				
Driving	3-19	Content									
				Stand	lard (mm)		Limit value (mm)				
				Inter	nal diameter of spline Dia						
				31.7							
					When exchanging the crawler sprockets, be sure to apply grease						
					evenly at the spline. When spline is seriously worn out, replace axle						
					shaft.						
	T										
	1	9)									
				No	Description		Part No	Q'ty.			
				1	SHAFT L, AXLE		1E9300-55410	1			
				2	SHAFT R, AXLE		1E9300-55440	1			

Section	Item	Contont	Inspecti	ion of	the transmission oil	Suited to type: AW448T		
Driving	3-20	Content						
				Stand	lard (L)	Limit value (L)		
lub oil port co	ver	X (b)	1	8.3 li	tter			
	40	K-						
			य <u>ा</u>	Change oil at every 400 hours.				
	Dec	J_						
	No 67							
		oil insj	pection plug	No	Descr	iption	Q'ty.	
	oil drain	n plug		1	Yanmar transmission oil			

Section	Item	Contont	Increatio	n of	the one way alutah	Suited t	to type: AW448T			
Driving	3-22	Content	Inspectio	011 01	the one way clutch					
				Stand	dard (mm)	Limit v	Limit value (mm)			
			16							
	50°			Dism	Dismount the clutch, and check on its wearing. It excessively worn,					
					eds to be replaced.					
				Note: assemble as per sequence shown in figure and do not assemble						
		7(18)	in w	in wrong direction, which will damage the machine and make it					
6.2	O C	J 5 (17)		impo	ssible to operate normally.					
- COON	р в(19	1								
	13			No	Description		Part No	Q'ty.		
				1	Clutch, one way S B		1E9300-54710	1		
я	9				Clutch, one way cover		1E9300-54750	1		

Section	Item	Content	Insp	ectio	n of HST lever	Suited to type: AW448T		
Driving	3-23		msp					
	~			Stand	Standard (mm) Limit value (mm)			
	E)							
A Contraction	faste	ning nut	link lever	Set t clute lengt turni	he range shift lever to "N" h belt pulley turns, looser h of the link lever until th ng. Tighten up the fastening	and HS n the fas e one w nut agai	T lever at "N". If stening nut and a ay clutch belt pu n.	f one way adjust the lley stops
for	<u> </u>	96		No	Description		Part No	Q'ty.
			~ # Q					

Section	Item	Contont	Ingnosti	on of	the range shift lover	Suited t	to type: AW448T	
Driving	3-24	Content	Inspecto	011 01	the range shift lever			
				Stan	dard (mm)	Limit v	alue (mm)	
	-11	<u> </u>	(a					
			1 🔟 👌	Conf	Confirm the action of the range shift lever.			
			2 IN /	No	Description		Part No	Q'ty.
n-			=1//					

Section	Item	Contont	Inspectio	on of	the steering actuator	Suited to	type: AW448T			
Driving	3-25	Content								
				Stand	dard (mm)	Limit value (mm)				
				0-0.5						
				Mov	Move almighty steering lever to left and right and check crawler of					
7-00		ີ້ 🎯 ີ	(MAN HI I	turni	turning direction is locked. If not, check clearance A of actuator					
	5.	(a	34PJ	0-0.5	0-0.5 mm. The steering adjusting wire needs constant cleaning up					
				and lubricating. When steering is malfunctioning, check the contact						
		YF	< A	swite	ch.					
	11/									
	AJ 19	. 2	JL-							
	at -			No	Description		Part No	Q'ty.		
			1	Steering adjusting wire			1			
		2	Switch 161061			2				

Section	Item	Contant	Wearing	g of t	he range shift gears	Suited t	to type: AW448T			
Driving	3-26	Content								
				Stand	dard (mm)	Limit v	alue (mm)			
					Replace when surface of the teeth have obvious steps of wearing and					
<u>s</u>				defec	defects like cracks and damaged corners are seen in the teeth.					
				Repla	ace the bearing in time whe	n it is dar	naged.			
))							
	<u>r</u> han	e Mer	V		r					
				No	Description		Part No	Q'ty.		
				1	Shaft, change assy		1E9300-54400	1		
				2	Gear 23		1E9300-54450	1		

Section	Item	Contont	Friction d	lisk o	of steering brake and	Suited t	to type: AW448T		
Driving	3-28	Content		pres	ssure plate				
				Stand	lard (mm)	Limit v	alue (mm)		
Replace the friction disk and pressure plate when						ate when they hav	ve serious		
					wearing, deformation or cracking. Replace the bearing 6207 when it				
damaged.									
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~							
(	) (	$\langle ( ) \rangle$	_						
	$\bigcirc$			No	Description		Part No	Q'ty.	
				1	Friction disk		1E8270-52481	14	
			2	Pressure plate		1E6740-55210	14		
			3	Bearing 6307RSH2		174842-13730	2		

Section	Item	Content	Incn	octio	n of the chassis	Suited t	to type: AW448T	
Driving	3-29	Content	msp	ectio	ection of the chassis			
				Stand	dard (mm)	Limit v	alue (mm)	
$\sim$	~~///							
		Chec repla	k from time to time the ch cement when necessary	assis for	cracking. Make	repairs or		
	C			No	Description		Part No	Q'ty.
////								

Section	Item	Content	Incn	oction	of the fuel filter	Suited t	to type: AW448T	
Engine	4-1	Content	Inshe	ection	I of the fuel inter			
1	_			Stand	dard (mm)	Limit v	alue (mm)	
	₩ <u>3</u>							
F.C.				Replace the filter at every 200 hours. Be sure to use genuine spare part, otherwise premature wearing may result in for injection pump and injection nozzle.			e Yanmar or engine,	
hand	57 6		1 (65	No	Description		Part No	Q'ty.
	1			1	Fuel filter		119802-55801	1
2	4							

Section	Item	Contont	Ingnosti	on of	the water concreter	Suited t	to type: AW448T			
Engine	4-2	Content	Inspect	011 01	the water separator					
/				Stand	dard (mm)	Limit v	alue (mm)			
/										
					Drain the dirt every 50 hours and clean up every 100 hours. Replace					
				filter	element every 200 hours.					
L.S.				Note: When replacing element, be sure to check the o-ring and apply						
	ËG1		制污牲	greas	se. If it is worn, replace it. B	e sure to	use genuine Yann	nar parts,		
			HE R	other	wise premature wearing ma	y result i	n for engine, injec	ction		
	Y			pump	o and injection nozzle.					
	T	-/ / AR		No	Description		Part No	Q'ty.		
Drain plug			ann Mar	1	Element, fuel oil		120324-55760	1		
Drain plug										

Section	Item	Contont		E.	ual tank	Suited t	Suited to type: AW448T		
Engine	4-3	Content		Г	Fuel talk				
				Stand	dard (mm)	Limit v	alue (mm)		
	FT FELS				tter				
				Use care every Note the t warn	good quality diesel fuel. about dirt in depositing co / 100 hours to drain the sedi : let the diesel-oil settle for ank. When the tank has o ing.	If you d ontainer. ments in over 48 nly 12 1	eposit fuel by yo Remove the oil of the fuel tank. hours before filli iters of fuel it w	urself, be lrain plug ing it into ill give a	
	चेर्च।/		$\square$	No	Description		Part No	Q'ty.	
, D	rain plug	bt							

4. The Engine Section

Section	Item	Content	Inspaction	n	of the pro- alconor	Suited t	to type: AW448T	
Engine	4-4	The speed		tion of the pre-cleaner				
			Sta	and	ard (mm)	Limit v	alue (mm)	
	0	<u>م</u>						
				Constantly clean up the filter and keep it clean and dry.				
	/		No	0	Description		Part No	Q'ty.
			1		Pre-cleaner		121975-12601	1

Section	Item	Contont	Incne	ontion	a of the oir filter	Suited	to type: AW448T			
Engine	4-6	Content	mspe							
				Stand	dard (mm)	Limit v	alue (mm)			
(An				The	The filter element needs to be cleaned up everyday. Use compressed					
hit				air a	t pressure of 7.0kg/cm ² to b	olow out	dust from the inte	ernal side.		
					Replace it after one working season or every 400 hours.					
			S	Note	: Do not clean filter eleme	ent in oi	l or water. Be su	ire to use		
N N			54	genu	ine Yanmar parts, otherwis	se prema	ture wearing may	result in		
	1	-		for e	ngine.					
\	J ^e			No	Description		Part No	Q'ty.		
				1	Air filter		129065-12500	1		

Section	Item	Cont			in of radiator	Suited t	to type: AW448T		
Engine	4-7	COL		ean u	ip of radiator				
				Stand	dard (mm)	Limit value (mm)			
	radiator inside filter mesh before the		before the						
					Flush the dust out with compressed air from inside on daily basis.				
				Note	: Be sure to open the hydred part.	lraulic o	il cooler and cle	an up the	
1			111 4	No	Description		Part No	Q'ty.	

Section	Item	Contont	Inspe	ction	of the cooling fan	Suited t	to type: AW448T		
Engine	4-8	Content							
				Stan	dard (mm)	Limit v	alue (mm)		
	L	>5H/(							
				Chec	Check the fan blades for damage and cracks. When serious, replace				
	$\square$		A	it.					
		8° 🕅							
	- 📡		D D						
A	I) ~	TK *	R Y		I				
	72	$(\underline{b})$		No	Description		Part No	Q'ty.	
	$\sim$	r me			Fan, cooling		29436-44740	1	

Section	Item	Contont	,	Tensio	on of fan belt	Suited	to type: AW448T		
Engine	4-9	Content							
				Stand	dard (mm)	Limit v	alue (mm)		
g	enerator fa	istening bolt							
~~~L				Apply a force of 10 kgf at the center the belt and adjust the					
		IN N		gene	rator's fastening bolt so that	at the bel	t has a deflection	of 10-15	
					mm. At the same time, check the belt for damage. When serious,				
				repla	ce it.				
			\$~						
)))))/	\mathcal{K}_{Γ}						
		62		No	Description		Part No	Q'ty.	
		Deflecti	on 10-15mm	1	Fan belt A40		25152-004000	1	

Section	Item	Contant		Г	ngino oil	Suited t	o type: AW448T		
Engine	4-10	Content		E	ingine on				
at an	oil fill	ling port		Stand	dard (L)	Limit va	alue (L)		
	\searrow			6 litt	er				
upper limit lower limit Co-114	l gauge	oil dra	in plug	Repl hours of en API	ace at 50 hours at the first s. Be sure to genuine Yanm gine and oil injection pump grade CD or better and SAE	time. A ar produc may resu 30 or 40	fter that replace e ct, otherwise early alt in.	every 100 y wearing	
			(E))(D)	No	Description		Part No	Q'ty.	

Section	Item	Content		Enoi	ne oil filter	Suited t	to type: AW448T		
Engine	4-11	content		LIISI					
				Stand	lard (mm)	Limit v	alue (mm)		
	filte	r element for er	ngine oil						
	HK.	toot	$A \setminus I$	First	time change is at 50 hours.	After th	at will be every 2	00 hours.	
		5 X - 19	$\lambda $ λ	Whe	n changing to new product,	apply no	ew oil on surface	of O-ring	
	DA	Self		of the filter. Be sure to use genuine Yanmar product, otherwise early					
	PEN	BHJ	HV	wear	ing of engine and oil injection	on pump	may result in.		
							-		
			\langle / \rangle						
	11.		TFOF	No	Description		Part No	Q'ty.	
H			T boz		FILTER 80X80L		129150-35160	1	

Section	Item	Contont	Б	ngino	oil filling nort	Suited t	o type: AW448T	
Engine	4-12	Content		igine	on ming port			
0	il filling p	ort		Stand	dard (mm)	Limit va	alue (mm)	
		oil filling por	t.	Ther	e are two oil filling ports wi erly tighten them.	th covers	in yellow color.	Be sure to
	1000							
	AU			No	Description		Part No	Q'ty.
	oil gauge		5. 11/1					

Section	Item	Contont	Cooli	ing w	vater in sub-tank	Suited t	to type: AW448T	
Engine	4-13	Content						
· D I			~~	Stand	dard (mm)	Limit v	alue (mm)	
	ver	FULL	-in port = -	Ex-fa cooli Wate cooli cap, wate cooli engin	actory standard: 70% of wa ng water is consumed, rep r level must be between t ng water is unusually con- and water pipeline for the r, mineral water etc as th ng system pipeline and le ne.	ater, 30% plenish p the "full' sumed, c sealing. 1 at is eas ead to p	o of anti freezing ure water in the ' and "low" marl check the radiator Never use river w sy to cause scalin poor heat diffusio	agent. As sub-tank. ks. When , radiator ater, well ng in the on of the
				No	Description		Part No	Q'ty.
		'						

Section	Item	Contont	En	ain a a	ilanaan damaga	Suited	to type: AW448T	
Engine	4-14	Content	СП	gine s	snencer uamage			
				Stand	dard (mm)	Limit v	alue (mm)	
N)	~ II							
	D O			Be s Crac other	ure to check the engine si k, burnt hole must be n wise fire accident may resu	ilencer b repaired lt in.	efore operation e by welding or	very day. replaced,
		//@		No	Description		Part No	Q'ty.
¥//	11 / ///	$\langle \rangle \rangle$		1	Silencer		129467-13510	1

Section	Item	Contont	Crackin	g of t	hreshing belt holder	Suite	d to type: AW448T	
Engine	4-15	Content						
				Stan	dard (mm)	Limi	t value (mm)	
				Chec repai dama	k for the cracking of the h r by welding is possible. W age can be caused to the belt	older. Then se	In its early stage of rious, it has to be re	cracking
J.	() (* /)/	//~		No	Description		Part No	Q'ty.
-5//	U YWYX		1	Retainer		1E8559-51530-1	1	

Section	Item	Contont	Inica	tion nozzla	Suited to type: AW4	48T			
Engine	4-16	Content	Injec						
	/	7	Stan	Standard (mm)Limit value (mm)					
	Ę	(P							
	6 —		Whe	n the engine gives inadequa	ate power and the ex	haust gas is in			
			the form of white smoke, be sure to check the injection nozzle to see						
	13 —		if inj	if injection pressure is 220-220kgf/cm2 and its atomizing status. If					
	9 —		they	they are not OK replace nozzle assy or valve assy					
	10 — 12 — 11 —								
	2 —	jÛ							
	2	LO Y	No	Description	Part No	Q'ty.			
	5 — 🦳		1	Nozzle assy, fuel inject	129100-53000	4			
No.				Valve assy, fuel inject	729100-53100	4			

5. The Electric Section

Section	Item	Contont	Sp	ecific	gravity of battery	Suited t	to type: AW448T	
Electric parts	5-1	Content			electrolyte			
-				Stand	dard (g/ml)	Limit v	alue (g/ml)	
battery		\geq		1.28		1.24		
				The limit charg charg Note first the re	electrolyte level must be l s. When combine is stored ged once a month. When charge. Charge it for 8-10 hours : When disconnecting the b and follow with the positive everse sequence.	kept betw d for lor arging th with 7A (attery, d termina	ween the upper a ng period, battery te battery, avoid fr current. isconnect negative 1. When connectir	nd lower must be om quick e terminal ng, follow
	liquid	level	L	No	Description		Part No	Q'ty.
	upper/le	ower L		1	Battery, 95D31R-MF		1E8809-83200	1

Section	Item	Contont		Con	anaton shaft	Suited t	to type: AW448T	
Electric parts	5-2	Content	Gen		erator shalt			
				Stand	lard (mm)	Limit v	alue (mm)	
SAN DALS		10 1	i					
ET P	18 million and the second seco	\$6, 0 "		Disas	ssemble the generator ever	y 200 h	ours to clean up	the dust.
Weger ((the second	S Share		Check the bearings to see they are rotating flexibly. If not, replace it.				
			الألم					
		ag- 28						
O BE	12		SI -					
			24					
	69		r.	No	Description		Part No	Q'ty.
i		ίχ 		1	Ball bearing		24104-062010	2
				2	Ball bearing		24104-062010	2

Section	Item	Contont	Dogid	iona	nd action of Laonaca	Suited t	to type: AW448T		
Electric parts	5-3	Content	POSI	.1011 a	nd action of L sensor				
				Stand	dard (mm)	Limit v	alue (mm)		
	Sensor (]	ы //	, ,	22-32	2				
"///	/ <u>) </u>			Chee	ck up on and adjust the	e transv	erse difference	between	
	ASK			the I	L sensor and vertical con	vey cha	in. Check to see	e if the L	
L P/B	P/ A A				sensor is in its right position and in normal contact.				
4/25	AX.	(FRD)	>						
27	-5 25	NX A	(
	XÆ								
\$ 2023	\sim		/	No	Description		Part No	Q'ty.	
J M V.	n - //	//\//\\\		1	Sensor switch L		1E6740-81850	1	

5. The Electric Section

Section	Item	Contont	м п	conco	n position and action	Suited t	to type: AW448T		
Electric parts	5-4	Content			r, position and action				
				Stand	Standard (mm) Limit value (mm)				
					8-12				
		a		Check and adjust the clearance between the covers of conveying				onveying	
				chair	n on upper right of the M-H	sensor.			
		/		No	Description		Part No	Q'ty.	
	<i>7 1</i>			1	M-H sensor		1E8555-86550	1	

Section	Item	Contant	Fu	inctio	n of the automatic	Suited t	to type: AW448T			
Electric parts	5-5	Content	t	hresh	ing depth control					
	,		4	Stand	dard (mm)	Limit va	alue (mm)			
			_£	To co	onfirm					
) <u>Le</u>			Set t	he key switch to "ON" pos	sition. Se	t the threshing an	nd cutting		
				clute	h levers "ON" position. Pre-	ss autom	atic threshing dep	th control		
					switch and push HST lever to "forward". Push L and move M-H					
		23785	/	sense	ors to confirm the action of v	vertical c	onvey chain.			
auto threshing dep	hLl// ot switch			Note	: There will be warning sour	nd. It is n	ormal.			
sensor (L)		turning knob								
			_ ·	No	Description		Part No	Q'ty.		
			1							
920-9-> SANKI,	S	ensor (H) sens	or(M)							

Section	Item	Contant	Warr	ning s	setup for straw cutter	Suited t	to type: AW448T		
Electric parts	5-6	Content			jamming				
				Standard (mm)			Limit value (mm)		
170	IA				onfirm				
50				Adju	st the switch to appropriate	position	so that the warni	ng comes	
$\sum / $	Switch				off just when the straw cutter gets jammed and engine comes to a				
				stop.					
NG) (BA)				No	Description		Part No	Q'ty.	
		1	Switch		1J3780-47000	1			

5. The Electric Section

Section	Item	Contont	Fun	ction	of warning setup for	Suited t	to type: AW448T	
Electric parts	5-7	Content	aux	conv	eying chain clogging			
				Stan	dard (mm)	Limit v	alue (mm)	
	M	5		50				
				Chec chair senso so th stop	ek up on and adjust the cle n guide pole's upper and low or. When the engine is in no nat it comes into contact wi now.	earance b wer press rmal ope th sensor	between the aux of sure plates and the ration, move the g	conveying e warning guide pole come to a
		$ \setminus $	7	No	Description		Part No	Q'ty.

6. HST

Section	Item	Content	CL	000 11	n of UST oil goolor	Suited to type: AW448T				
HST	6-1	Content	CI	ean u						
	111	$\wedge \setminus /$		Stand	dard (mm)	Limit va	llue (mm)			
	1	₽ <u>₹</u>								
	H	ATT	_	Use	a clean brush to clean aw	vay dust e	every day. Clear	n up on a		
	L	THAT	V,	quart	quarterly basis using low- pressure compressed air. Failing that can					
		BIIN	K	damage the HST due to overheating.						
			Ļ	No	Description		Part No	Q'ty.		
Lo	। wer side co	over								

Section	Item	Content	UST filtor		Content HST filter Suited to		HST filter Suited to type: AV		o type: AW448T	
HST	6-2	Content								
-				Stand	lard (mm)	Limit va	alue (mm)			
	HST filter		HST filter must be replaced e hydraulic oil.		every 400) hours together	with the			
- Into open		No	Description		Part No	Q'ty.				
			11 N	1 Hydraulic oil filter			1E8130-66791	1		

Section	Item	Contont	Ouar	antity of hydraulic oil		Quantity of hydraulia ail		Suited to type: AW448T	
HST	6-3	Content	Quar						
hydraulic oil tank			Stand	Standard (L) Limit value (L)					
7 1 00009			ē.	17	17				
				Oil t	ype shall be Yanmar supe	er hydrau	ulic oil VG46. C	hange oil	
The second secon				every 400 hours.					
IFS		\frown							
			\sim						
N. Start	Y			No	Description		Part No	Q'ty.	
profit utan plug		1	O-ring P16		24311-000160	1			

Checklist of main consumable parts

No	Description of part	Q'ty.	Remarks
1	Cutting driving belt	1	
2	Threshing driving belt	2	
3	Threshing belt shaft bearing	2	
4	Threshing drum driving belt	2	
5	Sorting feed-in conveying belt	1	
6	Sorting belt	1	
7	Shaking sieve driving belt	1	
8	Straw discharge driving belt	1	
9	Driving transmission belt	2	
10	Grass cutter driving belt	1	
11	Cooling fan/generator driving belt	1	
12	Rake-in belt	4	
13	Pick-up chain	4	
14	Pick-up chain rubber buffer	4	
15	Pick-up tine lower guide rail R	2	
16	Pick-up tine lower guide rail L	2	
17	Upper left conveying chain	1	
18	Upper right conveying chain	1	
19	Ear-Section (left) Type AW448T	1	
20	Pick-up tine for type AW448T	3	
21	Lower left conveying chain	1	
22	Lower right conveying chain	1	
23	Lengthwise conveying chain	1	
24	Lengthwise conveying chain shaft bearing	1	
25	Aux conveying chain	1	
26	Feed in chain	1	
27	Straw discharge chain	1	
28	Cutting blades assembly	1	
29	Moving blades assembly	1	
30	Stationary blades assembly	1	
31	Cutter rocker arm bearing	2	
32	Threshing inlet port rubber A	1	
33	Threshing inlet port rubber B	1	
34	Threshing inlet port rubber C	5	
35	Threshing knife	5	
36	Threshing knife	6	
37	Threshing tooth L 7	4	
38	Threshing tooth R7	4	
39	Threshing tooth O	8	
40	Threshing tooth S	4	
41	Threshing tooth T7	8	
42	Threshing tooth R7	44	
43	Pick-up tine	94	
44	Pick-up tine pin	94	
45	Threshing tooth R68	4	
46	Threshing tooth KL	4	
47	Threshing tooth S	44	
48	Threshing tooth R	41	
49	Hole cover of re-threshing drum	2	

Checklist of main consumable parts

No.	Description of part	Q'ty.	Remarks
50	Rack teeth	24	
51	Hood of fixation hole	2	
52	Winnower fan shaft bearing	2	
53	Threshing drum front cover	1	
54	Threshing drum bolt	14	
55	Threshing drum bolt washer	20	
56	Anti dust brush	1	
57	Threshing chamber bolt M8x 16	6	
58	Reinforcement plate A	3	
59	Reinforcement plate B	1	
60	Grass scraper	1	
61	Aux grass pressing plate	4	
62	Primary spiral	1	
63	2nd (tailings) spiral	1	
64	Elevation spiral	1	
65	Elevation spiral grain scraper	2	
66	Bevel spiral	1	
67	Bevel spiral shaft bearing	1	
68	Oil pipe (for oil drain)	1	
69	Machine oil filter element	1	First replacement at 50 hours, replacement afterward at 200 hours.
70	Diesel oil filter element	1	Replacement at 200 hours.
71	Air filter element	1	Clean up everyday, replacement at 400 hours.
72	HST hydraulic oil filter element	1	Replacement at 400 hours.
73	Vehicle axle seal ring	2	
74	One-way clutch	1	
75	Crawler	2	
76	Crawler sprocket	2	
77	Carrier roller	2	
78	Crawler guide rail	4	
79	Concave plate sieve frame	1	
80	Concave sieve wire mesh	1	
81	Concave sieve reinforcement ribs (long)	1	
82	Concave sieve reinforcement ribs (short)	1	
83	Sieve mesh pressure plate	47	
84	Sieve mesh bolt	5	
85	Concave sieve screw	52	
86	Accelerator wire	1	
87	Cutting clutch wire	1	
88	Crop-pushing planetary gear	4	
89	Crop-pushing planetary gear shaft bearing	4	
90	Battery	1	
91	Straw cutter discs	36/30	AW448T 30 blades
92	Filter element of diesel oil settling cup	1	Replace at 200 hours
93	Shaft bearing of gearbox	all	Maintenance at 1000 hours
94	Oil seal of gearbox	all	Maintenance at 1000 hours
95	Steering clutch friction disk	all	Maintenance at 1000 hours
96	Steering clutch mid pressure plate	all	Maintenance at 1000 hours

3. Appendices

Descript of chain	No.	Total length (mm)	Number of links	Pitch (mm)	Number of removable links	specs
Pick-up chain	1E8920-13460	1778	140	12.7	2	140
Upper right conveying chain	1E8550-26823	2755.9	217	12.7	2	R217
Upper left conveying chain	1E8550-25553	825.5	65	12.7	6	L65
Lower right conveying chain	1E8550-23161	2079	63	33	2	63R
Lower left conveying chain	1E8550-23151	1353	41	33	2	41L
Aux conveying chain	1E8559-28241	112	34	33	2	$30 \times 34L$
Lengthwise conveying chain	1E8559-27151	1518	46	33	2	36×46
Feed in chain	1E8559-48001	3430	98	35	2	58×98
Straw discharge chain	1E9060-49200	2310	70	33	2	25×70

1. Parameters of AW448T chains of different Sections

3. Parameters of tightening torque N-m (kg-m) for bolts/nuts of different Sections:

	4T (grade 4.8)	7T (grade 8.8)
M3	-	-
M6	4.90-6.86 (0.5-0.7)	10.78-13.72 (1.1-1.4)
M8	12.74-16.66 (1.3-1.7)	22.54-29.40 (2.3-3.0)
M10	24.50-34.36 (2.5-3.5)	44.10-58.80 (4.5-6.0)
M12	44.10-58.80 (4.5-6.0)	78.40-98.00 (8.0-10)
M14	68.80-83.30 (7.0-8.5)	117.60-147.00 (12-15)
M16	107.80-137.20 (11-14)	166.60-205.80 (17-21)
M18	156.80-186.20 (16-19)	235.20-284.20 (24-29)
M20	215.60-246.60 (22-27)	323.40-401.80 (33-41)

Note: 4T, 7T are indicated at the ends of the bolts.

4. AW448T commonly used bearings

Section	Location of bearing	Figure in page	Bearing No	Quant.	remarks
Cutting Section	Cutter crank shaft	45-35	24104-063034	2	Symmetrical
	Center of rocker arm holder	45-34	24104-062044	2	
	One side of rocker arm holder	45-33	24104-062034	2	Driving the cutter
	Crop-pushing planetary gear (outer left, outer right)	50.51-8	24104-062024	4	
	Crop-pushing planetary gear (inner left, inner right)	55-24	24104-060034	4	
	Lower right conveying roller	59-23	24104-062034	1	
	Lower right conveying tension wheel80	59-24	24104-062034	1	

	Lower left conveying tension wheel 23 $\times 80$	60-19	24104-062034	1	
	Lower left conveying tension wheel 80	60-20	24104-062034	1	
	Lengthwise conveying expanding roller80x29	70-18	24104-062034	1	
	Aux conveying expanding roller	73-24	24104-062034	1	
	Aux conveying tension sprocket	73-25	24104-062034	1	
	Cutting belt tension wheel 70	133-15	24104-062034	1	
	Cutting belt tension arm	133-14	24104-062024	2	
	One-way clutch	143-7	1E8379-54180	1	BB6303 UU NR
	One-way clutch	143-15	24104-060074	1	
	Sorting feed-in belt tension wheel 85	89-10	24104-062024	2	
	Sorting feed-in belt tension wheel 70	90-16	24104-063034	1	
	Sorting belt tension wheel 70	91-18	24104-063034	1	
	Shaking sieve belt tension wheel 65-B1	92-16	24104-062024	1	
	Threshing drum belt tension wheel 120	95-31	24104-062044	2	
	Threshing drum belt tension wheel 80	95-30	24104-062034	2	
	Threshing drum belt tension wheel 80	95-29	24104-062024	2	
	Straw discharge belt tension wheel 65-B1	97-11	24104-062024	1	
	Threshing belt tension wheel 80×49	99-17	24104-062044	2	
	Threshing clutch tension arm	99-16	24104-060034	2	Linked to threshing driving belt tension wheel
	Threshing clutch arm	158-24	24104-062024	2	Linked to threshing clutch link lever
	Threshing drum shaft end bearing seat	109-6	24104-062054	1	
Section	Re-threshing drum driving shaft mounting seat	112-5	1E8540-41280	1	BB2306 2RS
eshing	Re-threshing drum driving shaft	112-14	24104-062044	2	One driving shaft at front and one at the rear
Th	Re-threshing drum driving shaft support	113-4	1E8230-41590	1	BB6204DDU
	Shaking sieve driving shaft holder	115-9	24104-062034	2	
	Winnower fan shaft bearing seat	118-8	24104-062034	2	
	Primary spiral shaft bearing holder	119-7	24104-062034	1	
	Bevel spiral driving shafts 1, 2	120-21	24104-062034	3	2 at shaft 1, and 1 at shaft 2
	Bevel spiral driving shaft 2	120-20	24104-062034	1	
	Upper cover of elevation spiral	121-7	24104-062034	2	
	Primary spiral bearing holder	123-4	24104-062034	1	
	Bevel spiral top	124-26	24104-062044	1	
	Suction fan bearing holder	125-13	24104-062024	1	
	Feed-in port roller holder	126-22	24104-062024	2	At the front end of feed chain guide rail
	Feed chain guide rail side	126-23	24104-062024	2	At the center of feed chain guide rail
	Straw discharge chain tension wheel 60	129-19	24104-062024	1	
	Grass cutter belt tension wheel 82	209-16	24104-062020	1	

	Grass cutter belt tension arm	209-21	24104-062014	2	
	Grass cutter low speed axle (front)	210-19	24104-062064	2	
	Grass cutter high speed axle (rear)	211-21	24104-062064	2	
	Driving tension arm bearing	152-4	24104-062044	2	
	Driving belt tension wheel 80	152-23	24104-062034	2	
ion	Idling wheel shaft	169-12	24104-062064	4	
Sect	Track roller axle 1	170-12	24104-062064	12	6 wheels
ving	Track roller axle 2	170-27	24104-062064	4	2 wheels
Dri	Carrier roller axle	172-11	24104-062044	4	
	Hydraulic oil pump	7-22	24105-060064	2	
	Oil injection pump (cam shaft)	12-8	129155-51050	1	Thrust ball bearing
ion	Oil injection pump (cam shaft)	12-86	24101-063034	1	
Sect	Starting motor rotor (front)	16-9	129129-77240	1	
gine	Starting motor rotor (rear)	16-8	129129-77230	1	
Eng	Generator	17	24104-062010	1	BB6201 UUC3

Published by Yanmar Agricultural Machinery (Thailand) Co., LTD.

20-01-2007