



OPERATION MANUAL

DIESEL GENERATOR

YTG5.0S

YTG6.5S

YTG10S

YTG5.0T

YTG6.5T

YTG9.0T

YTG12.5T

YTG15T

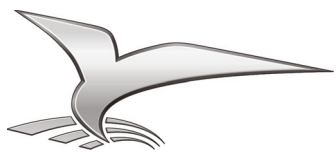
**California
Proposition 65 Warning**

Diesel engine exhaust and some of its constituents are known to the state of California to cause cancer, birth defects, and other reproductive harm.

**California
Proposition 65 Warning**

Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the state of California to cause cancer and reproductive harm.

Wash hands after handling.



YANMAR
®

YTG series

OPERATION MANUAL

Diesel Generators

YTG5.0S

YTG6.5S

YTG10S

YTG5.0T

YTG6.5T

YTG9.0T

YTG12.5T

YTG15T

P/N: 0AYTG-G00100

**INDUSTRIAL
ENGINES**

Disclaimers:

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TO THE OWNER OF THIS YTG DIESEL GENERATOR:

Welcome to the expanding brotherhood of YTG D.G. users, whom YANMAR is proud of serving. Your choice of this D.G. unit among many counterparts currently marketed is sincerely vouchsafed to be a right one, your YTG D.G. unit is to prove it.

This manual, dealing with the generator part of the unit, provides all the basic information necessary for you to obtain maximum benefits from your YTG generator. Please use this manual as a companion to the other manual covering the engine part.

Thank you.

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1. SPECIFICATIONS

1-1. Single Phase (2 Wire)

Alternator	Model		YTG5.0S	YTG6.5S	YTG10S
	Alternator Model		S16F180-A	S20FS160A	S20F200A
	Alternator Weight	kg	33.2	50	57
	Insulation Class		H		
	Operation Condition		Ambient temperature not exceeding 50°C		
Engine			Attitude not exceeding 1000m		
	YANMAR		TF90M	TF120M	TF160M
	Type		Horizontal water-cooled, 4-cycle diesel engine		
	Bore x Stroke	mm	85 x 87	92 x 96	102 x 105
	Displacement	liters	0.493	0.638	0.857
	Cont. output	kW (hp)	6.3 (8.5)	7.7 (10.5)	10.3 (14)
	Rated output	kW (hp)	7.0 (9.5)	8.8 (12)	11.8 (16)
	Revolutions	rpm	2400		
	Starting system		Hand Start		
	Cooling System		Radiator		
	Lubricating System		Fully sealed forced lubrication with trochold pump & hydraulic regulator valve		
	Combustion system		Direct injection		
	Fuel conumption	lit./h	2.2	2.8	3.5
	Fuel Tank Capacity	liters	10.5	11	14.3
Generator Set	Capacity	KVA	5	6.5	10
		kW	5	6.5	10
	Frequency	Hz	Available in either 50Hz or 60Hz		
	Revolutions	rpm	3000 for 50Hz/3600 for 60Hz		
	No. of phase		Single Phase		
	Power factor		1		
	Excitation system		Brushless, self-excitation system		
	Drive system		V-belt drive		
	Voltage (Standard)	V	220		
	Recommend cable dia	mm	6-16		
	Recommend earth cable		Equal to the conductor size		
Dimension	Ampere	A	22.7	29.5	45.5
	Dimension length	mm	1270	1360	1410
	Dimension width	mm	610	690	700
	Dimension height	mm	760	800	850
Net weight (dry)		kg	219	227	339

SPECIFICATIONS

1-2. Three Phase (4 Wire)

Alternator	Model		YTG5.0T	YTG6.5T	YTG9.0T	YTG12.5T	YTG15T
	Alternator Model		EC03-1S	EC03-1S	EC03-2S	EC03-3S	EC03-1L
	Alternator Weight	kg	57	57	63	69	78
	Insulation Class		H				
	Operation Condition		Ambient temperature not exceeding 50°C				
Engine			Attitude not exceeding 1000m				
	YANMAR		TF70M	TF90M	TF120M	TF160M	TS190R
	Type		Horizontal water-cooled, 4-cycle diesel engine				
	Bore x Stroke	mm	78 x 80	85 x 87	92 x 96	102 x 105	110 x 106
	Displacement	liters	0.382	0.493	0.638	0.857	1.007
	Cont. output	kW (hp)	4.4 (6)	6.3 (8.5)	7.7 (10.5)	10.3 (14)	11.8 (16)
	Rated output	kW (hp)	5.2 (7)	7.0 (9.5)	8.8 (12)	11.8 (16)	14.0 (19)
	Revolutions	rpm	2400				
	Starting system		Hand Start				
	Cooling System		Radiator				
	Lubricating System		Fully sealed forced lubrication with trochold pump & hydraulic regulator valve				
	Combustion system		Direct injection				
	Fuel consumption	lit./h	1.7	2.2	2.8	3.5	4
	Fuel Tank Capacity	liters	7.1	10.5	11	14.3	13.7
Generator Set	Capacity	KVA	5	6.5	9	12.5	15
		kW	4	5.2	7.2	10	12
	Frequency	Hz	Available in either 50Hz or 60Hz				
	Revolutions	rpm	3000 for 50Hz/3600 for 60Hz				
	No. of phase		3 Phase (4 wire)				
	Power factor		0.8				
	Excitation system		Brushless, self-excitation system				
	Drive system		V-belt drive				
	Voltage (Standard)	V	220/380				
	Recommend cable dia	mm	6-16				
	Recommend earth cable		Equal to the conductor size				
Dimension	Ampere	A	7.6	9.9	13.7	19	22.8
	Dimension length	mm	1270	1270	1360	1410	1530
	Dimension width	mm	610	610	690	700	740
	Dimension height	mm	760	760	800	850	920
Dimension	Net weight (dry)	kg	214	224	290	353	384

Optional:

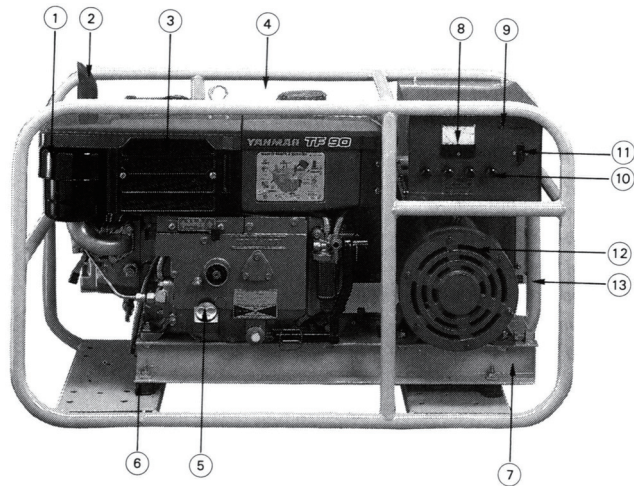
1. Voltage for 3 Phase model: 127/220V, 230/400V, 240/415V
2. Electric Starting
3. Battery and cables
4. Wheel Castors

Standard Scope of Supply:

1. Tool kits
2. Additional V-Belt
3. Element F.O Strainer
4. Instruction Manual

2. NAMES OF IMPORTANT PARTS AND COMPONENTS

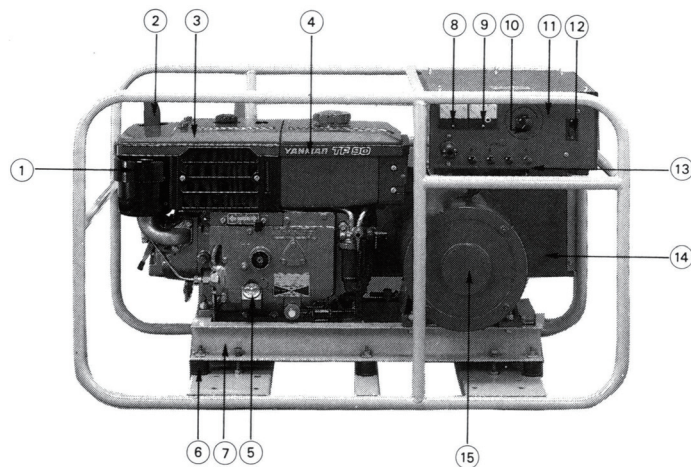
2-1. YTG-S (Single phase)



- 1 – Air cleaner
- 2 – Muffler
- 3 – Radiator
- 4 – Fuel tank
- 5 – Lube oil inlet port
- 6 – Rubber mount
- 7 – Common base
- 8 – Voltmeter
- 9 – Pilot lamp
- 10 – Output terminals
- 11 – Main switch
- 12 – AC Generator
- 13 – Belt cover

NAMES OF IMPORTANT PARTS AND COMPONENTS

2-2. YTG-T (Three phase)



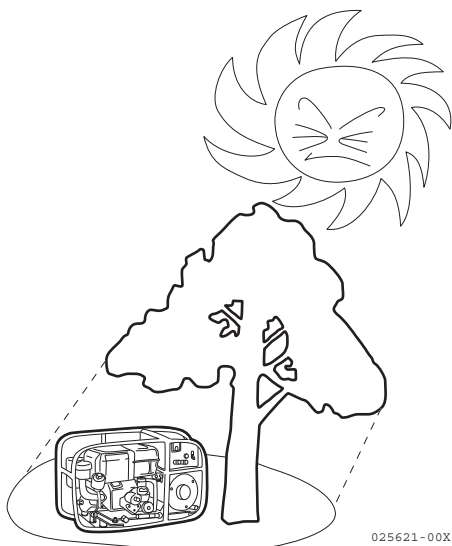
- 1 – Air cleaner
- 2 – Muffler
- 3 – Radiator
- 4 – Fuel tank
- 5 – Lube oil inlet port
- 6 – Rubber mount
- 7 – Common base
- 8 – Ammeter
- 9 – Voltmeter
- 10 – Voltage regulator
- 11 – Pilot lamp
- 12 – Main switch
- 13 – Out put terminals
- 14 – Belt cover
- 15 – AC Generator

3. PREPARATORY STEPS FOR OPERATION

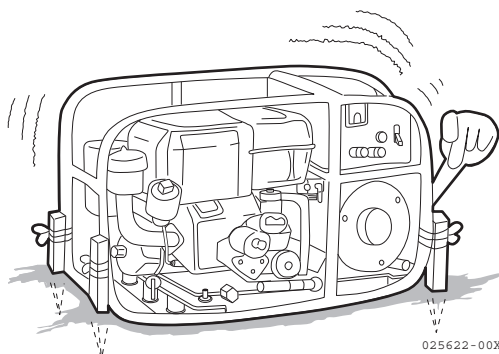
3-1. Environmental Requirements

3-1-1. Outdoor use

- (1) Place your YTG D.G. unit in a dry place, where the air is not stagnant.
- (2) Avoid the direct sun. Set your YTG D.G. unit in the shade, as necessary.

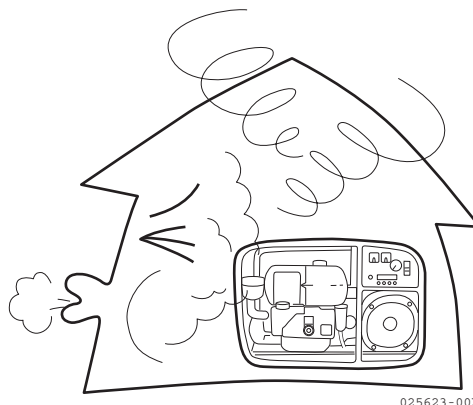


- (3) Stand your YTG D.G. unit on level ground so that the unit will not move about by itself. While running, secure it to the ground by pegging.



3-1-2. Indoor use

- (1) Secure good ventilation to let out the exhaust fume.
- (2) Use forced ventilation, as necessary, to hold down the room temperature.



- (3) Set up your YTG D.G. unit on a flat foundation having a sufficient mass to stay solid.

! DANGER:

- **Using a generator indoors CAN KILL YOU IN MINUTES.**
- **Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.**
- **NEVER use inside a home or garage, EVEN IF doors and windows are open.**



- **Only use OUTSIDE and far away from windows, doors, and vents.**

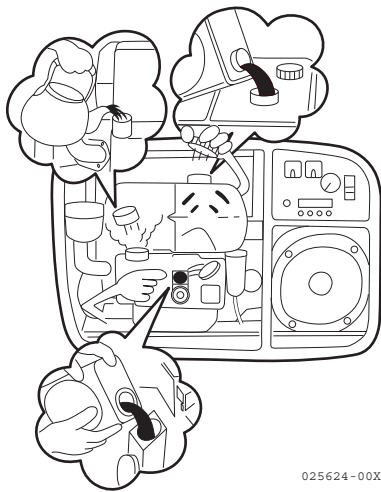


- **Avoid other generator hazards. READ MANUAL BEFORE USE.**

PREPARATORY STEPS FOR OPERATION

3-1-3. Readyng the Engine

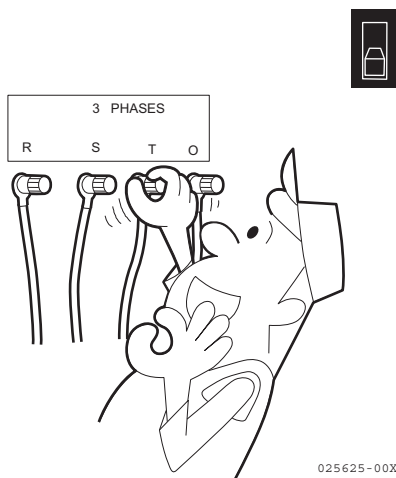
- (1) Make sure that fuel, lube oil and cooling water are all up to level in the engine part of the unit.



- (2) Check to be sure that all major securing bolts on the unit are tight.

3-1-4. Electrical Connection with Load

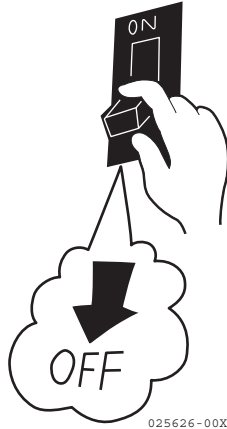
- (1) Make sure that the load to be supported does not exceed the power capacity of your YTG D.G. unit. Make the electrical connection only after you made sure of this.
- (2) Make all terminal connections good and tight in tying the load to the generator.



4. STARTING-UP PROCEDURE

4-1. YTG-S (Single-Phase)

- (1) Check to be sure that the main switch is off.



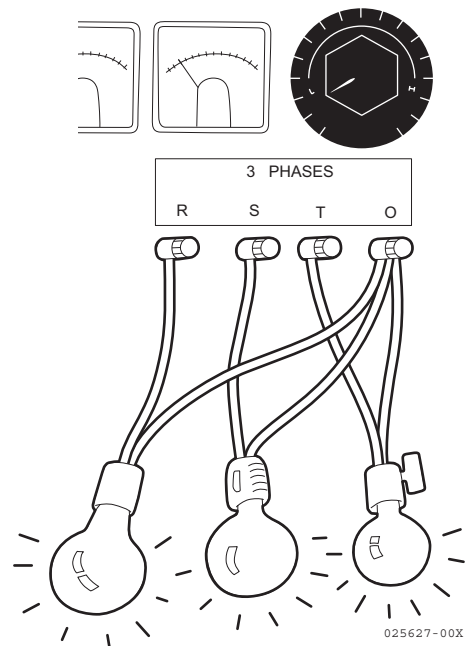
- (2) Open the fuel cock.
- (3) Start up the engine, and warm it up by idling it. About 5 minutes or so of warm-up run will be necessary.
- (4) After the warm-up run, raise engine speed slowly while observing the voltmeter indication. Set the engine running at the prescribed speed.
- (5) Turn on the main switch.

4-2. YTG-T (Three-Phase)

- (1) Check to be sure that the main switch is off.
- (2) Open the fuel cock, and set the engine regulator lever in middle position.
- (3) Start up the engine. Carry out a 5-minute warm-up run.
- (4) While referring to the voltmeter, operate the voltage regulator to bring the voltage to the prescribed level.

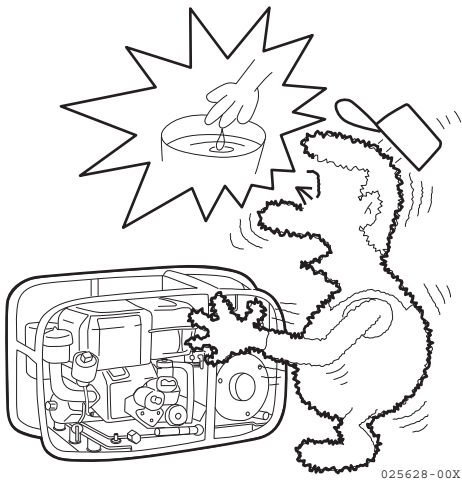
Note: If the voltage regulator will not hold the voltage at the prescribed level, adjust engine speed by the engine regulator lever to the prescribed rpm value.

- (5) Turn on the main switch.
- (6) Output voltage may change more or less: if it does, adjust it to the prescribed level by operating the voltage regulator.
- (7) A three-phase load is assumed in the foregoing sequence. If one or more single-phase loads are to be supported, connect the load between "R", "S" or "T" phase and the neutral (O) terminal, as shown below: Distribute the single-phase loads in such a way as to minimize the difference in phase current.



5. LOAD-SUPPORTING RUN

- (1) Exercise common-sense precautions for avoiding "shock." Do not touch the generator or any part of the load with your bare hand, let alone wet hands.



- (2) While your YTG D.G. unit is supporting the load, check the engine for evidence of malfunction. To be checked now and then are these:

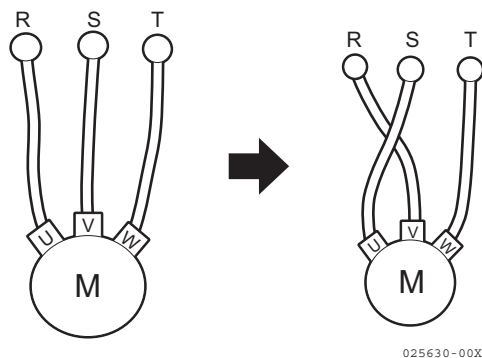
- Fuel leakage and fuel level
- Lube-oil circulation
- Cooling water level
- Abnormal noise
- Exhaust gases
- Vibration



- (3) Always be sure that output voltage is pegged to the prescribed level and that the current being drawn is not in excess of the specified limit.

Note: Tips on supporting a motor load.

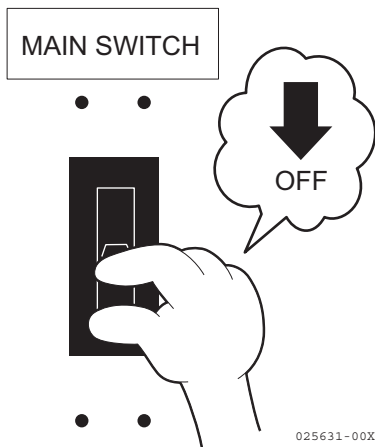
- (4) If you are not sure whether a three-phase inductor motor load will run in normal direction or not, close the main switch momentarily to spin the motor for trial. If the motor runs in reverse direction, swap any two phase conductors as shown here:



- (5) An induction motor draws a very high starting current and demands the power source to have a KVA capacity large enough to supply this current. For example, a 1.5-kW three-phase motor with efficiency of 0.8, whose power factor is 0.8, requires a starting power input of about 2.3 kVA ($1.5 \div 0.8 \div 0.8$).

6. SHUTTING-DOWN PROCEDURE

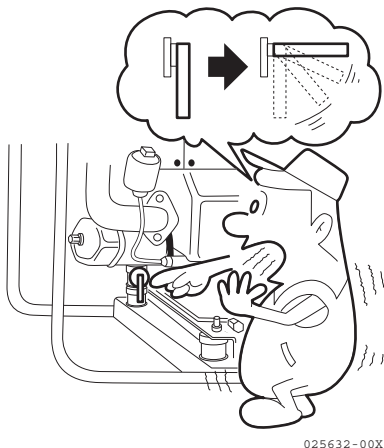
- (1) Turn off the main switch.



- (2) Lower engine speed a little, and allow it to run in no-load condition for several minutes. Then, bring the regulator lever to "STOP" position to stop the engine.

Note: "Decompressing" the engine by means of the decompression lever is one way of stopping the engine but this method is not recommended.

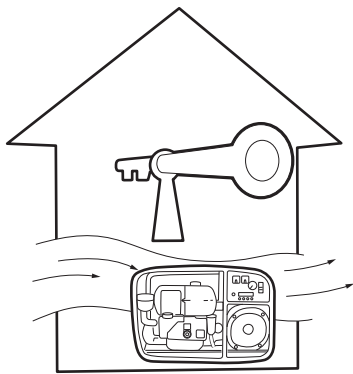
- (3) Close the fuel cock.
- (4) If freezing temperatures are expected, drain out the cooling water by opening the drain cock, which is located on the lower part of cylinderhead.



7. STORING THE D.G. UNIT

To place the D.G. unit in a long storage, proceed as follows:

- (1) Remove the cooling water from the engine by draining.
- (2) Clean the D.G. unit by wiping, removing stains.
- (3) Check important bolts and nuts for tightness, and retighten if necessary.
If the D.G. unit is in need of any repair, complete the repair work before placing it in storage, so that, at the end of the storage, the D.G. unit will be ready to go into service in best possible condition.
- (4) Turn the flywheel by hand to bring the intake and exhaust valves into fully seated condition. Refer to the engine manual.



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- (5) For the place of storage, select a location where you can be sure of adequate ventilation and dryness. Moisture is bad on the D.G. unit in storage.
- (6) Cover up the D.G. unit in storage for protection against dust.

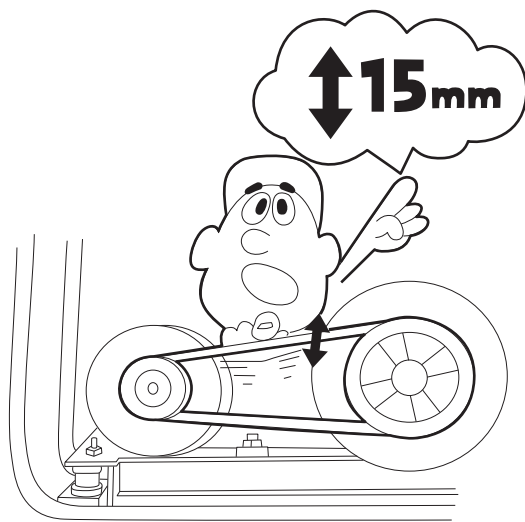
8. PERIODICAL INSPECTION

A little time spent at regular intervals in inspecting the D.G. unit for signs of malcondition will pay off richly in the form of a trouble-free, dependable power generation. In this regard, the engine needs more and closer attentions, which are described in the engine manual. The generator and its associated components do not require more attentions than ordinary electrical devices. In short, they should be regularly inspected for signs of insulation failure (due to overheating or to moisture), tightness of electrical connections, etc. The YTG D.G. unit is built so sturdy that this inspection will take but a little time.

Before starting the use of your D.G. unit for the day, check on the generator part to make sure that:

(1) V-belt is in proper tension.

Give a thumb pressure to the belt between the two pulleys to see how much it will deflect. A deflection of about 15mm means that the belt is properly tensioned.



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(2) Cooling fins are clean.

The stator coils dissipate heat to the passing air, and the cooling fins too get rid of excess heat similarly. Do not allow dust to accumulate on these parts, for dust accumulations interfere with passage of air and obstruct the flow of heat to the air. Cleaning the cooling fins and stator coils regularly will materially extend service life of the generator. Remember, dirty fins raise the internal temperature of the generator, high temperature weakens the insulation, and a weakened insulation easily "ruptures" to result in a failed generator.

9. SIMPLIFIED TROUBLESHOOTING GUIDE

Troubleshooting assumes a shooter capable of discriminating between "normal" and "abnormal." The following guide assumes you to be such a troubleshooter not equipped with testing or measuring instruments:

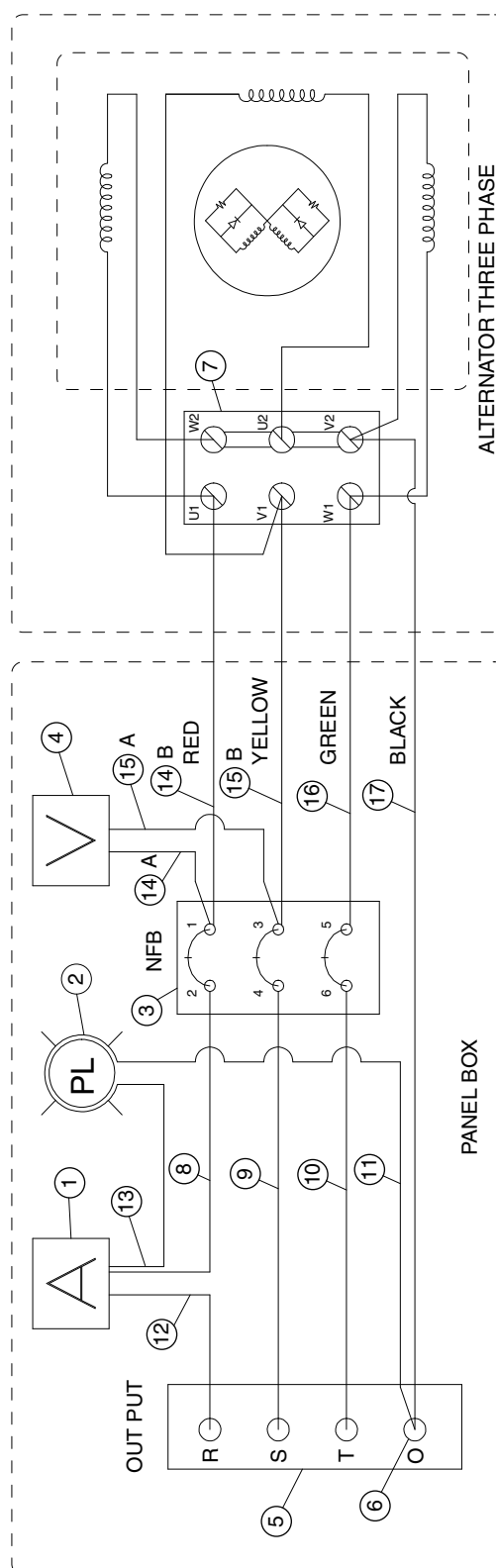
Measuring instruments are needed to diagnose most of the parts within the controller. If any trouble is suspected of the controller and if you cannot determine the cause by visual inspection, you should get in touch with your YANMAR dealer or service shop for advice.

Complaint	Possible causes	Remedy
No power, or not enough power.	(a) Engine rpm too low. (b) Circuit is decreased.	(a) Raise the speed setting to the specified level. (b) Fixing break point.
Power is available but falls upon loading.	(a) V-belt is too slack. (b) Too long a line is used between generator and load. (c) The load is too large.	(a) Adjust the belt to proper tension. (b) Relocate the D.G. unit as close as possible to the load. (c) Reduce the load to and below the capacity limit of the D.G. unit.
Loading trips off the main switch instantly.	(a) Overloading. (b) Fault on the load side.	(a) Reduce the load. (b) Check to locate the faulted circuit, and repair.
Pilot lamp stays off.	(a) Bulb failure.	(a) Replace.

Single Phase

	YTG5.0S	YTG6.5S	YTG10S
1	Ampere Meter (30A)	Ampere Meter (50A)	Ampere Meter (50A)
2	Pilot Lamp (220V)	Pilot Lamp (220V)	Pilot Lamp (220V)
3	Volt Meter (300V)	Volt Meter (300V)	Volt Meter (300V)
4	Breaker (20A)	Breaker (30A)	Breaker (50A)
5	Terminal Board	Terminal Board	Terminal Board
6	Ebonit (80 x 35 x 5)	Ebonit (80 x 35 x 5)	Ebonit (80 x 35 x 5)
7	Bending Phase Red	Bending Phase Red	Bending Phase Red
	Bending Phase Black	Bending Phase Black	Bending Phase Black
8	Nut M5	Nut M5	Nut M5
9	Cable (Red)	Cable (Red)	Cable (Red)
10	Cable (White)	Cable (White)	Cable (White)
11	Cable (Yellow)	Cable (Yellow)	Cable (Yellow)
12	Cable (Green)	Cable (Green)	Cable (Green)
13A	Cable (Red)	Cable (Red)	Cable (Red)
13B	Cable (Red)	Cable (Red)	Cable (Red)
14	Cable (Black)	Cable (Black)	Cable (Black)
15	Cable (Yellow)	Cable (Yellow)	Cable (Yellow)
16	Cable (Red)	Cable (Red)	Cable (Red)
17A	Cable (Black)	Cable (Black)	Cable (Black)
17B	Cable (Black)	Cable (Black)	Cable (Black)
18	Cable (Red)	Cable (Red)	Cable (Red)

10-2. Three Phase



WIRING DIAGRAMS

Three Phase (220/380)

	YTG6.5T	YTG9.0T	YTG12.5T	YTG15T
1	Ampere Meter (15A)	Ampere Meter (15A)	Ampere Meter (30A)	Ampere Meter (30A)
2	Pilot Lamp (220V)	Pilot Lamp (220V)	Pilot Lamp (220V)	Pilot Lamp (220V)
3	Breaker (10A)	Breaker (10A)	Breaker (20A)	Breaker (20A)
4	Volt Meter (500V)	Volt Meter (300V)	Volt Meter (500V)	Volt Meter (500V)
5	Ebonit (150 x 50 x 5)	Ebonit (150 x 50 x 5)	Ebonit (150 x 50 x 5)	Ebonit (150 x 50 x 5)
6	Bending Phase Red	Bending Phase Red	Bending Phase Red	Bending Phase Red
	Bending Phase Black	Bending Phase Black	Bending Phase Black	Bending Phase Black
7	Terminal Board	Terminal Board	Terminal Board	Terminal Board
8	Cable (Red)	Cable (Red)	Cable (Red)	Cable (Red)
9	Cable (Yellow)	Cable (Yellow)	Cable (Yellow)	Cable (Yellow)
10	Cable (Blue)	Cable (Blue)	Cable (Blue)	Cable (Blue)
11	Cable (Black)	Cable (Black)	Cable (Black)	Cable (Black)
12	Cable (Red)	Cable (Red)	Cable (Red)	Cable (Red)
13	Cable (Yellow)	Cable (Yellow)	Cable (Yellow)	Cable (Yellow)
14A	Cable (Red)	Cable (Red)	Cable (Red)	Cable (Red)
14B	Cable (Red)	Cable (Red)	Cable (Red)	Cable (Red)
15A	Cable (Yellow)	Cable (Yellow)	Cable (Yellow)	Cable (Yellow)
15B	Cable (Yellow)	Cable (Yellow)	Cable (Yellow)	Cable (Yellow)
16	Cable (Green)	Cable (Green)	Cable (Green)	Cable (Green)
17	Cable (Black)	Cable (Black)	Cable (Black)	Cable (Black)

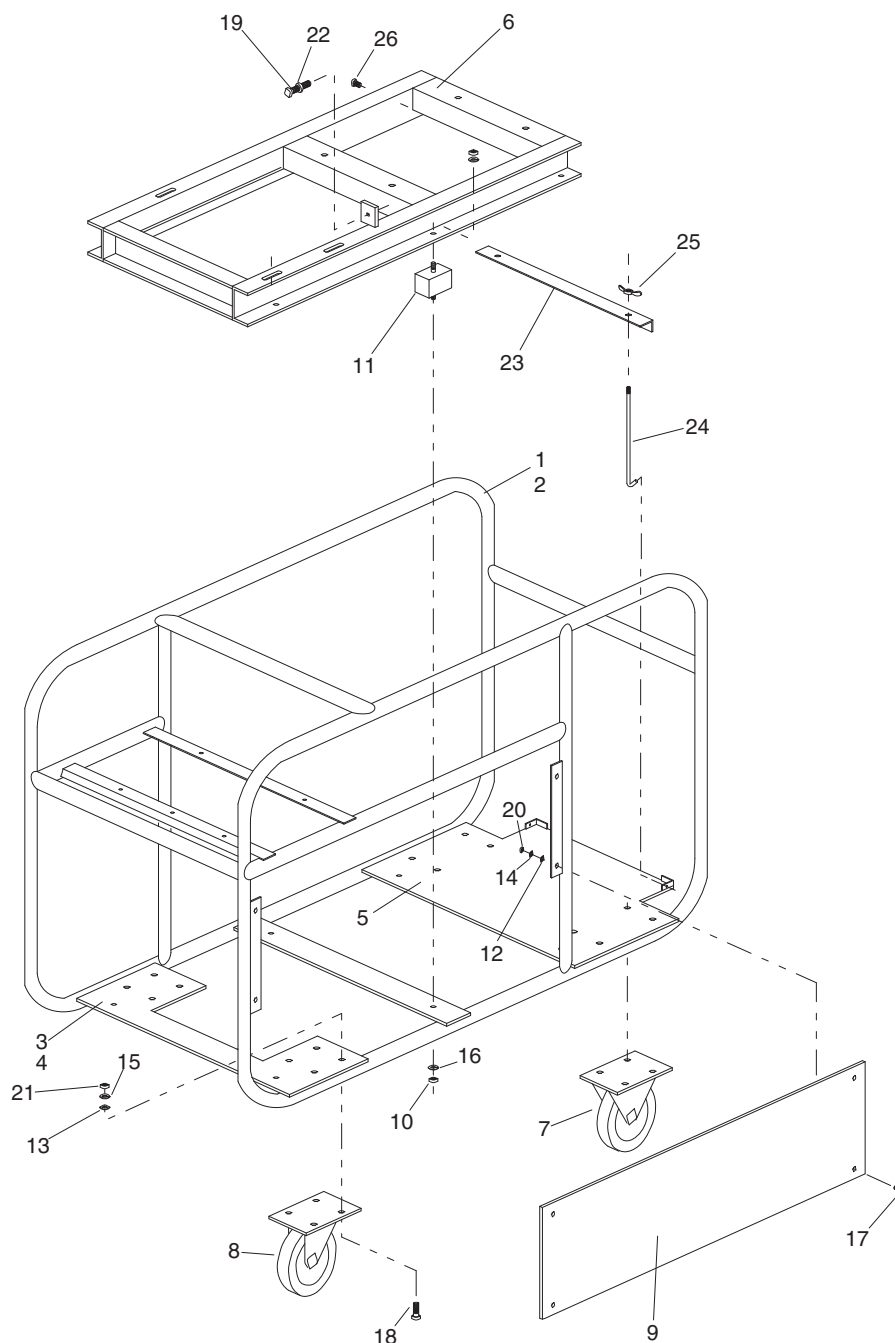
Three Phase (127/220)

	YTG6.5T	YTG9.0T	YTG12.5T	YTG15T
1	Ampere Meter (15A)	Ampere Meter (15A)	Ampere Meter (50A)	Ampere Meter (50A)
2	Pilot Lamp (220V)	Pilot Lamp (220V)	Pilot Lamp (220V)	Pilot Lamp (220V)
3	Breaker (15A)	Breaker (15A)	Breaker (30A)	Breaker (30A)
4	Volt Meter (300V)	Volt Meter (300V)	Volt Meter (300V)	Volt Meter (300V)
5	Ebonit (150 x 50 x 5)	Ebonit (150 x 50 x 5)	Ebonit (150 x 50 x 5)	Ebonit (150 x 50 x 5)
6	Bending Phase Red	Bending Phase Red	Bending Phase Red	Bending Phase Red
	Bending Phase Black	Bending Phase Black	Bending Phase Black	Bending Phase Black
7	Terminal Board	Terminal Board	Terminal Board	Terminal Board
8	Cable (Red)	Cable (Red)	Cable (Red)	Cable (Red)
9	Cable (Yellow)	Cable (Yellow)	Cable (Yellow)	Cable (Yellow)
10	Cable (Blue)	Cable (Blue)	Cable (Blue)	Cable (Blue)
11	Cable (Black)	Cable (Black)	Cable (Black)	Cable (Black)
12	Cable (Red)	Cable (Red)	Cable (Red)	Cable (Red)
13	Cable (Yellow)	Cable (Yellow)	Cable (Yellow)	Cable (Yellow)
14A	Cable (Red)	Cable (Red)	Cable (Red)	Cable (Red)
14B	Cable (Red)	Cable (Red)	Cable (Red)	Cable (Red)
15A	Cable (Yellow)	Cable (Yellow)	Cable (Yellow)	Cable (Yellow)
15B	Cable (Yellow)	Cable (Yellow)	Cable (Yellow)	Cable (Yellow)
16	Cable (Green)	Cable (Green)	Cable (Green)	Cable (Green)
17	Cable (Black)	Cable (Black)	Cable (Black)	Cable (Black)

11. EXPLODED VIEWS OF CONTROLLER AND GENERATOR

11-1. Single Phase

YTG 5.0S: Frame

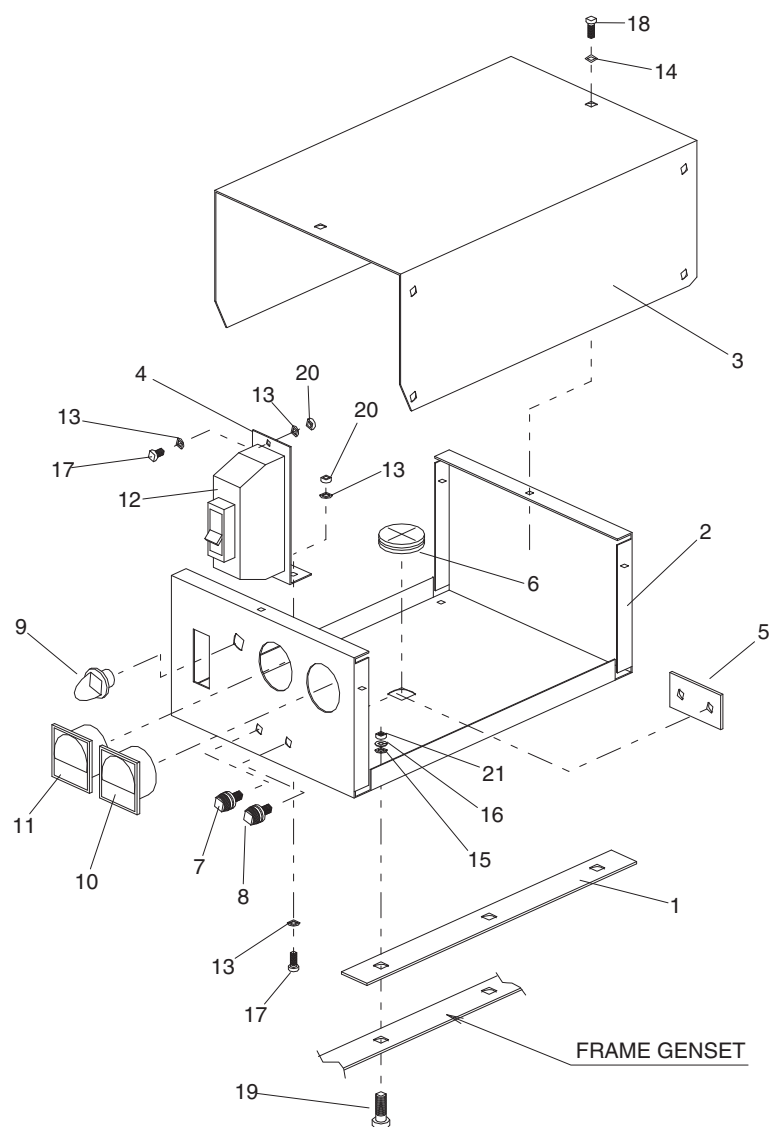


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG5.0S-ME		YTG5.0S-EE	
		5H	6H	5H	6H
1	FRAME CMP	1	1		
2	FRAME CMP			1	1
3	BRACKET	1	1		
4	BRACKET			1	1
5	RUBBER MATTRESS	1	1	1	1
6	BED	1	1	1	1
7	RODA EDLY NBKJK-125	2	2	2	2
8	RODA EDLY NBLJ-125	2	2	2	2
9	NAME PLATE	1	1	1	1
10	NUT	8	8	8	8
11	RUBBER MOUNTING	4	4	4	4
12	WASHER, 6	4	4	4	4
13	WASHER, 8	16	16	16	16
14	WASHER, 6	4	4	4	4
15	WASHER, 8	16	16	16	16
16	WASHER, 10	8	8	8	8
17	BOLT, 6 X 20	4	4	4	4
18	BOLT, 8 X 20	16	16	16	16
19	BOLT, 12 X 60	1	1	1	1
20	NUT, 6	4	4	4	4
21	NUT, 8	16	16	16	16
22	NUT, 12	1	1	1	1
23	STOPPER ACCU			1	1
24	BOLT STOPPER ACCU			2	2
25	NUT, WING			2	2
26	BOLT, 8 X 25			1	1

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 5.0S: Panel

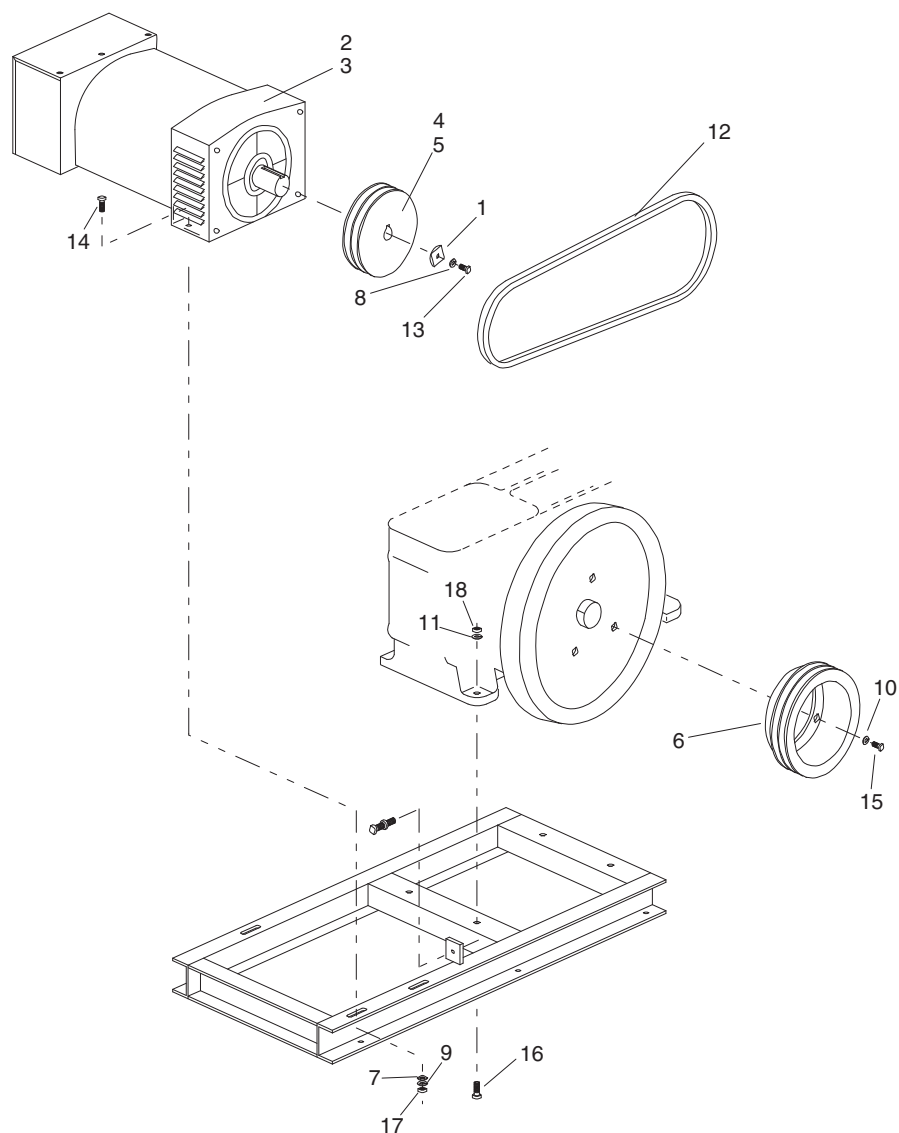


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG5.0S-ME		YTG5.0S-EE	
		5H	6H	5H	6H
1	RUBBER MATTRESS	2	2	2	2
2	KOTAK PANEL(BAWAH)	1	1	1	1
3	KOTAK PANEL(TUTUP)	1	1	1	1
4	BRACKET S,BREAKER	1	1	1	1
5	EBONIT 80X35X5	1	1	1	1
6	RUBBER CABLE HOLE	1	1	1	1
7	BENDING PAST MERAH	1	1	1	1
8	BENDING PAST HITAM	1	1	1	1
9	PILOT LAMP MM-220V	1	1	1	1
10	AMPEREMETER HELES 30	1	1	1	1
11	VOLTMETER HELES 300V	1	1	1	1
12	NFB 1 PHASE 20 AMPER	1	1	1	1
13	WASHER, 5	8	8	8	8
14	WASHER, 5	12	12	12	12
15	WASHER, 6	6	6	6	6
16	WASHER, 6	6	6	6	6
17	BOLT, 5 X 12	4	4	4	4
18	BOLT, 5 X 12	12	12	12	12
19	BOLT, 6 X 20	6	6	6	6
20	NUT, 5	4	4	4	4
21	NUT, 6	6	6	6	6

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 5.0S: Generator

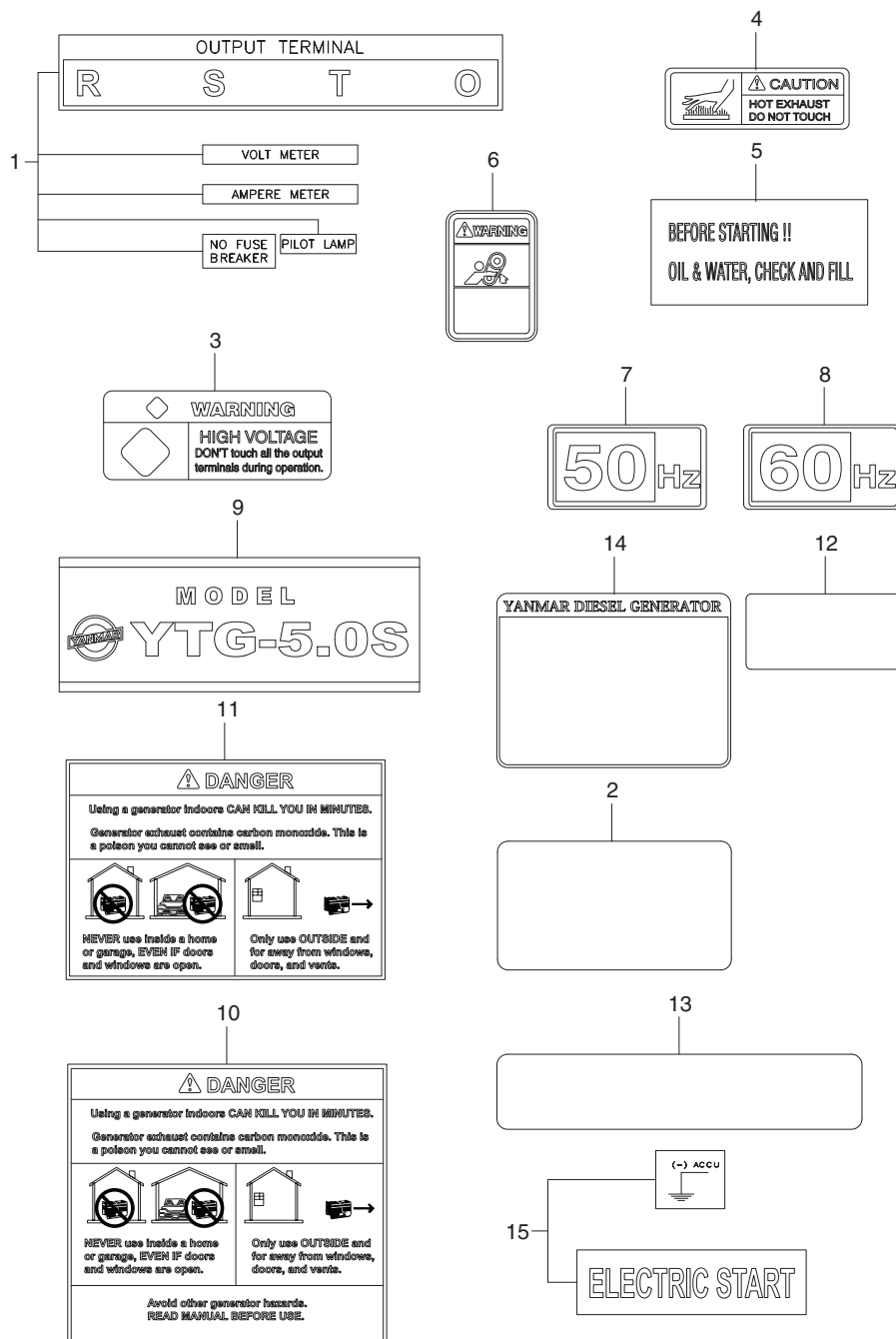


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG5.0S-ME		YTG5.0S-EE	
		5H	6H	5H	6H
1	WASHER, SHAFT	1	1	1	1
2	GEN S16F 180/A 50HZ	1		1	
3	GEN S16F 180/A 60HZ		1		1
4	V-PULLEY	1		1	
5	V-PULLEY		1		1
6	V-PULLEY	1	1	1	1
7	WASHER, 10	3	3	3	3
8	WASHER, 8	1	1	1	1
9	WASHER, 10	3	3	3	3
10	WASHER, 12	3	3	3	3
11	WASHER, 12	4	4	4	4
12	V BELT, SB 51	2	2	2	2
13	BOLT, 8 X 20	1	1	1	1
14	BOLT, 10 X 30	3	3	3	3
15	BOLT, 12 X 35	3	3	3	3
16	BOLT, 12 X 40	4	4	4	4
17	NUT, 10	3	3	3	3
18	NUT, 12	4	4	4	4

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 5.0S: Sticker

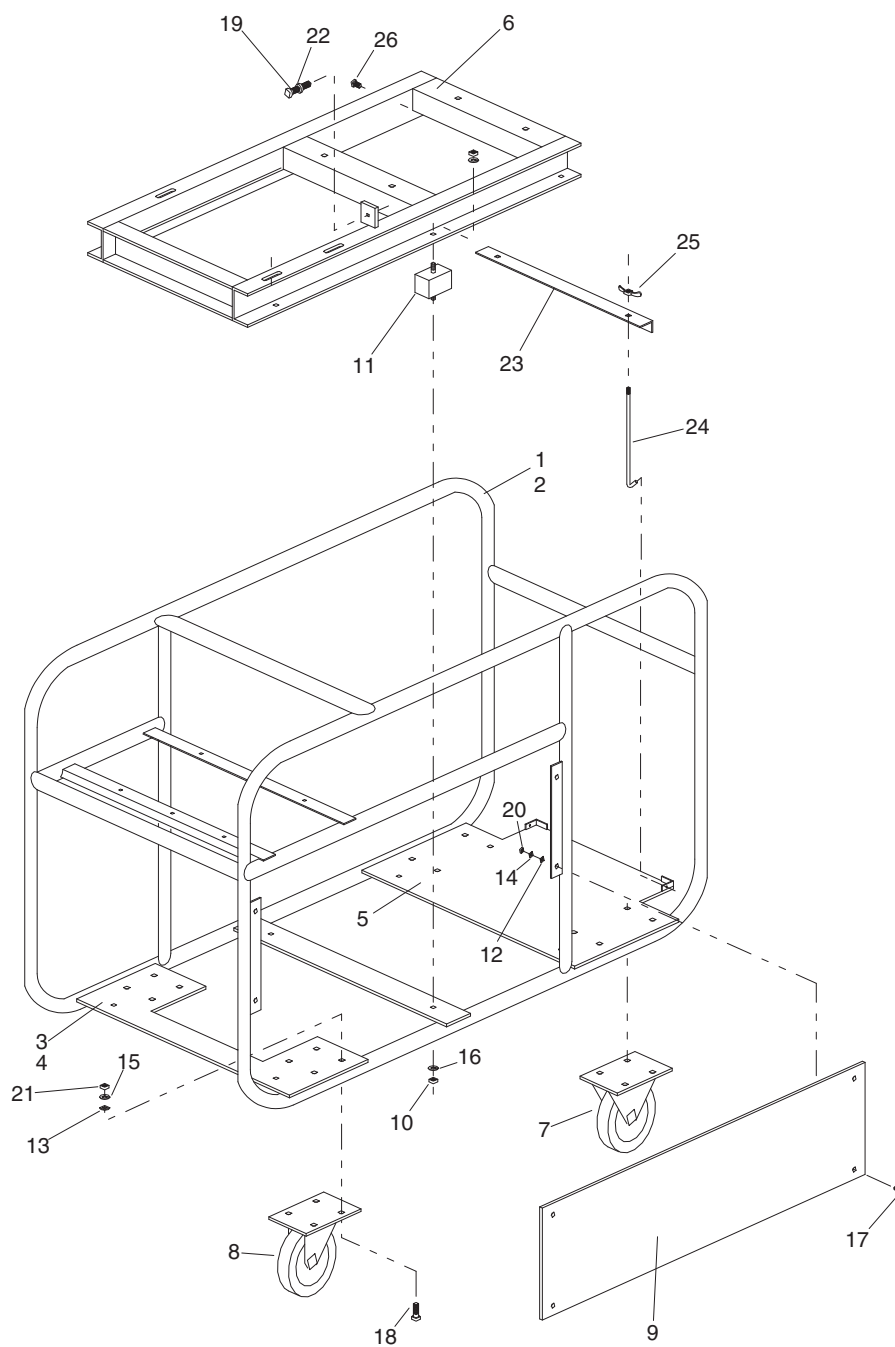


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG5.0S-ME		YTG5.0S-EE	
		5H	6H	5H	6H
1	STICKER PANEL SET	1	1	1	1
2	STICKER WIRING DIAGR	1	1	1	1
3	STICKER HIGH VOLT	1	1	1	1
4	STICKER DONT TOUCH	1	1	1	1
5	STICKER BEFORE START	1	1	1	1
6	STICKER WARNING F/W	1	1	1	1
7	STICKER 50HZ	1		1	
8	STICKER 60HZ		1		1
9	STICKER YTG5-S-M(E)	1	1	1	1
10	STICK. HAZARD FOR CA	2	2	2	2
11	STICK. HAZARD FOR PL	1	1	1	1
12	STICKER GS.BRUSHLESS	1	1	1	1
13	STICKER ABDUL HASYIM		1		1
14	STICKER SASO YTG5S		1		1
15	STICKER ELECTRIC STR			1	1

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 6.5S: Frame

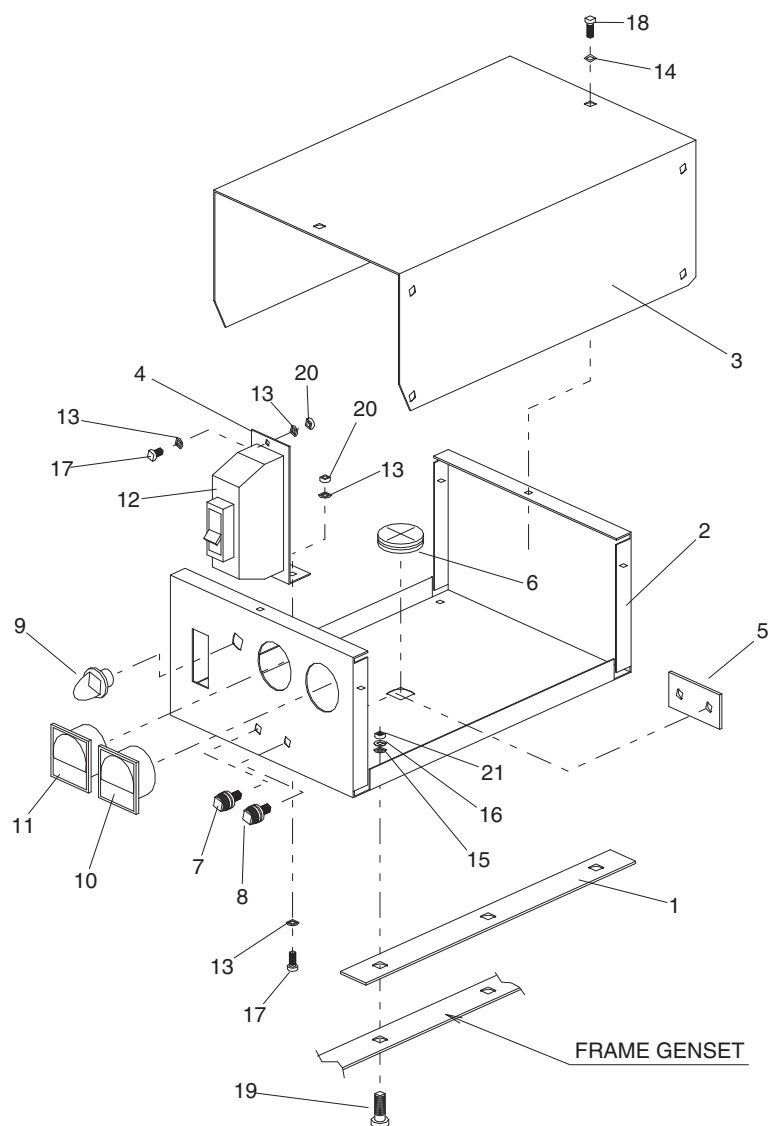


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG6.5S-ME		YTG6.5S-EE	
		5H	6H	5H	6H
1	FRAME CMP	1	1		
2	FRAME CMP		1	1	
3	BRACKET	1	1		
4	BRACKET		1	1	
5	BRACKET	1	1	1	1
6	BED	1	1	1	1
7	RODA EDLY NBJ-130	2	2	2	2
8	RODA EDLY NBK-130	2	2	2	2
9	NAME PLATE	1	1	1	1
10	NUT	12	12	12	12
11	RUBBER MOUNTING	6	6	6	6
12	WASHER, 6	4	4	4	4
13	WASHER, 10	16	16	16	16
14	WASHER, 6	4	4	4	4
15	WASHER, 10	16	16	16	16
16	WASHER, 10	12	12	12	12
17	BOLT, 6 X 20	4	4	4	4
18	BOLT, 10 X 20	16	16	16	16
19	BOLT, 12 X 60	1	1	1	1
20	NUT, 6	4	4	4	4
21	NUT, 10	16	16	16	16
22	NUT, 12	1	1	1	1
23	STOPPER ACCU	1	1		
24	BOLT STOPPER ACCU	2	2		
25	NUT, WING		2	2	
26	BOLT, 8 X 25		1	1	

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 6.5S: Panel

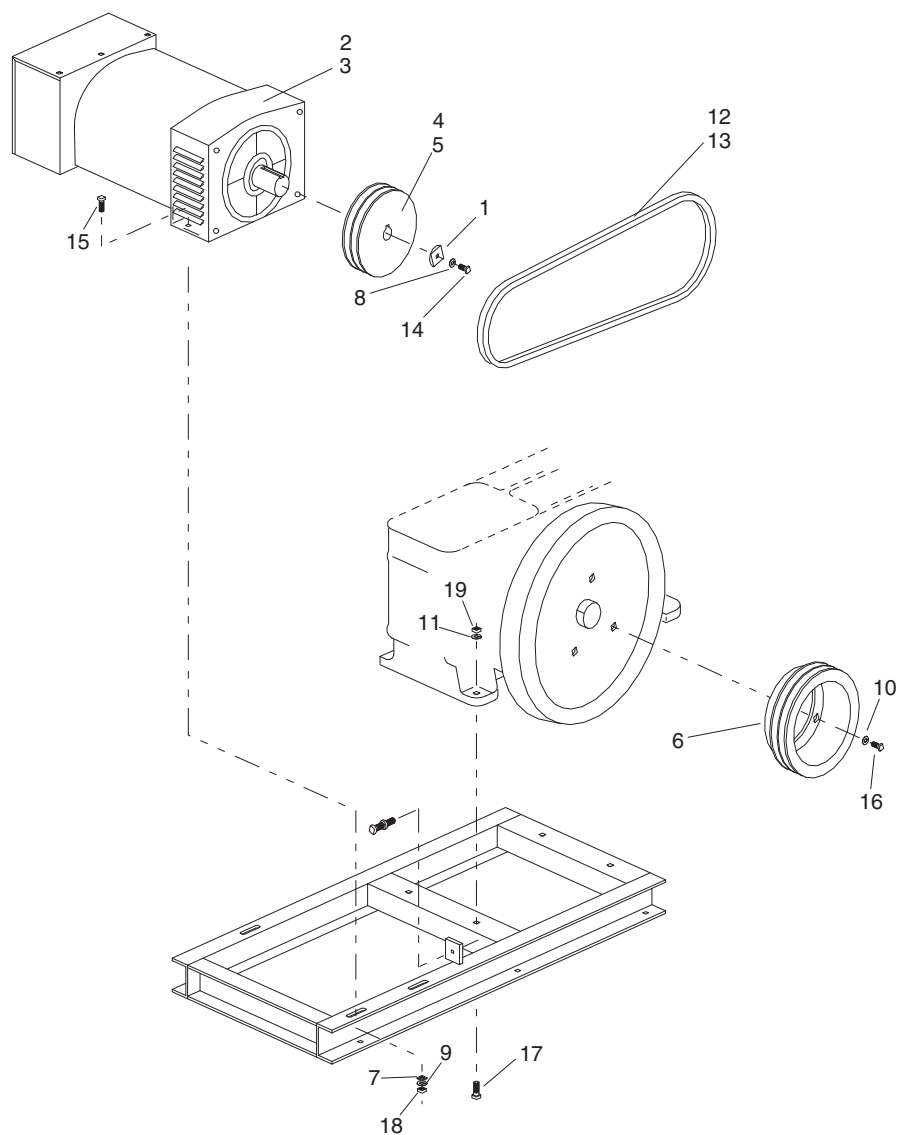


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG6.5S-ME		YTG6.5S-EE	
		5H	6H	5H	6H
1	RUBBER MATTRESS	2	2	2	2
2	KOTAK PANEL(BAWAH)	1	1	1	1
3	KOTAK PANEL(TUTUP)	1	1	1	1
4	BRACKET S,BREAKER	1	1	1	1
5	EBONIT 80X35X5	1	1	1	1
6	RUBBER CABLE HOLE	1	1	1	1
7	BENDING PAST MERAH	1	1	1	1
8	BENDING PAST HITAM	1	1	1	1
9	PILOT LAMP MM-220V	1	1	1	1
10	AMPEREMETER HELES 50	1	1	1	1
11	VOLTMETER HELES 300V	1	1	1	1
12	NFB 1 PHASE 30A FUJI	1	1	1	1
13	WASHER, 5	8	8	8	8
14	WASHER, 5	12	12	12	12
15	WASHER, 6	6	6	6	6
16	WASHER, 6	6	6	6	6
17	BOLT, 5 X 12	4	4	4	4
18	BOLT, 5 X 12	12	12	12	12
19	BOLT, 6 X 20	6	6	6	6
20	NUT, 5	4	4	4	4
21	NUT, 6	6	6	6	6

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 6.5S: Generator

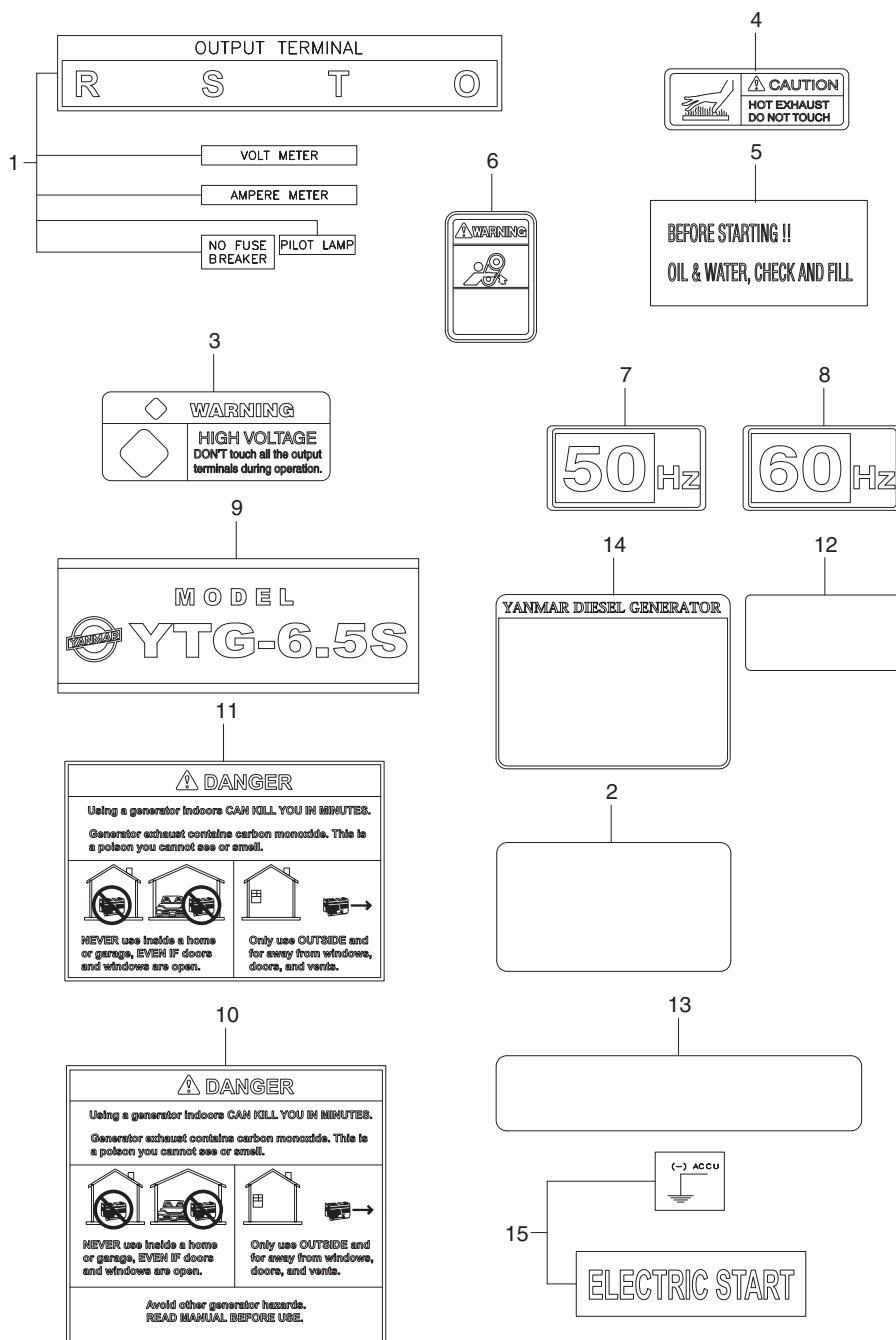


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG6.5S-ME		YTG6.5S-EE	
		5H	6H	5H	6H
1	WASHER, SHAFT	1	1	1	1
2	GEN S20FS 160/A 50HZ	1		1	
3	GEN S20FS 160/A 60HZ		1		1
4	V-PULLEY	1		1	
5	V-PULLEY		1		1
6	V-PULLEY	1	1	1	1
7	WASHER, 10	3	3	3	3
8	WASHER, 10	1	1	1	1
9	WASHER, 10	3	3	3	3
10	WASHER, 12	3	3	3	3
11	WASHER, 12	4	4	4	4
12	V BELT, SB 55	2		2	
13	V BELT, SB 54		2		2
14	BOLT, 10 X 20	1	1	1	1
15	BOLT, 10 X 30	3	3	3	3
16	BOLT, 12 X 35	3	3	3	3
17	BOLT, 12 X 40	4	4	4	4
18	NUT, 10	3	3	3	3
19	NUT, 12	4	4	4	4

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 6.5S: Sticker

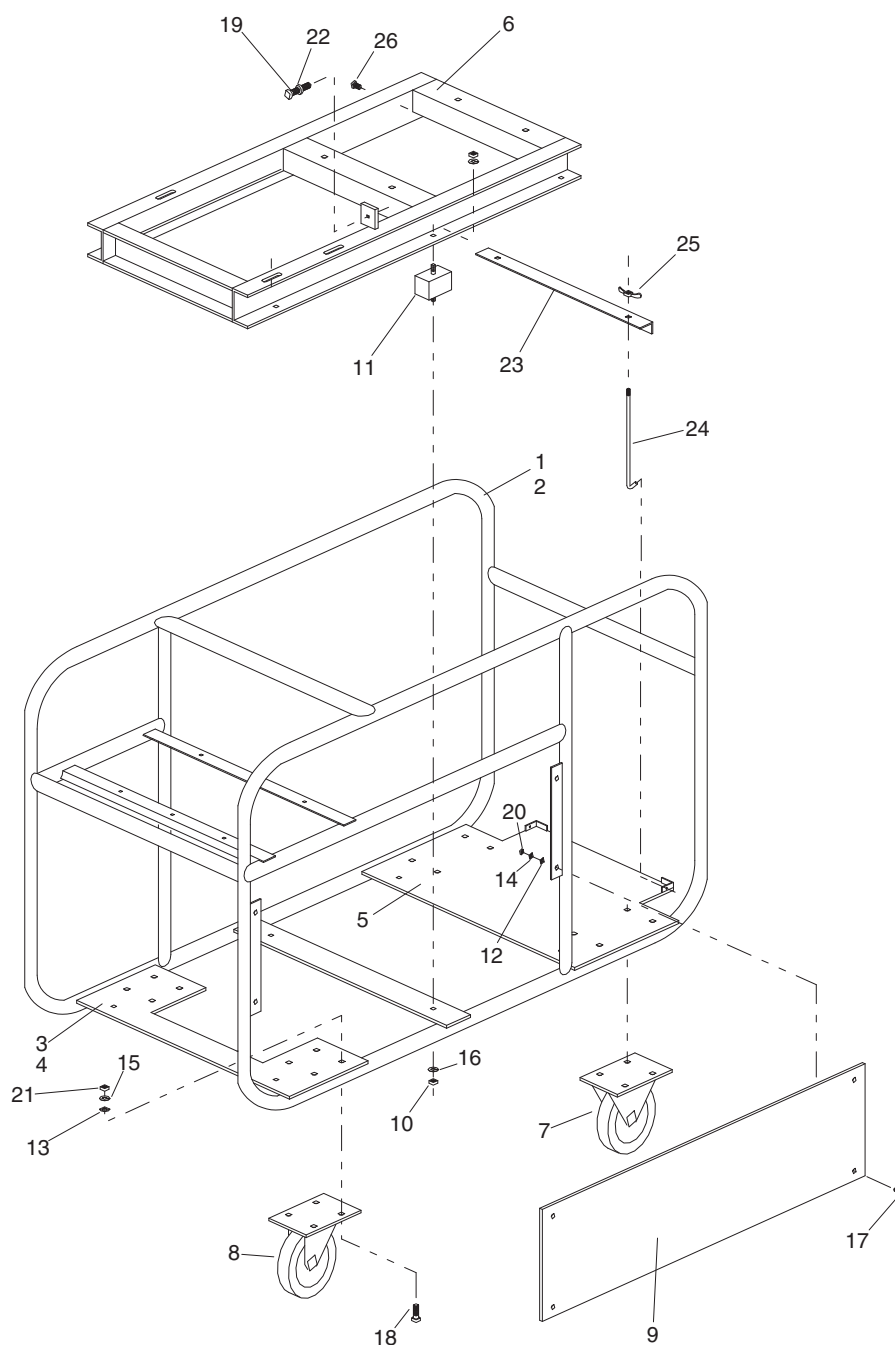


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG6.5S-ME		YTG6.5S-EE	
		5H	6H	5H	6H
1	STICKER PANEL SET	1	1	1	1
2	STICKER WIRING DIAGR	1	1	1	1
3	STICKER HIGH VOLT	1	1	1	1
4	STICKER DONT TOUCH	1	1	1	1
5	STICKER BEFORE START	1	1	1	1
6	STICKER WARNING F/W	1	1	1	1
7	STICKER 50HZ	1		1	
8	STICKER 60HZ		1		1
9	STICKER YTG65-S-M(E)	1	1	1	1
10	STICK. HAZARD FOR CA	2	2	1	2
11	STICK. HAZARD FOR PL	1	1	1	1
12	STICKER GS.BRUSHLESS	1	1	1	1
13	STICKER ABDUL HASYIM		1		1
14	STICKER SASO YTG6.5S		1		1
15	STICKER ELECTRIC STR			1	1

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 10S: Frame

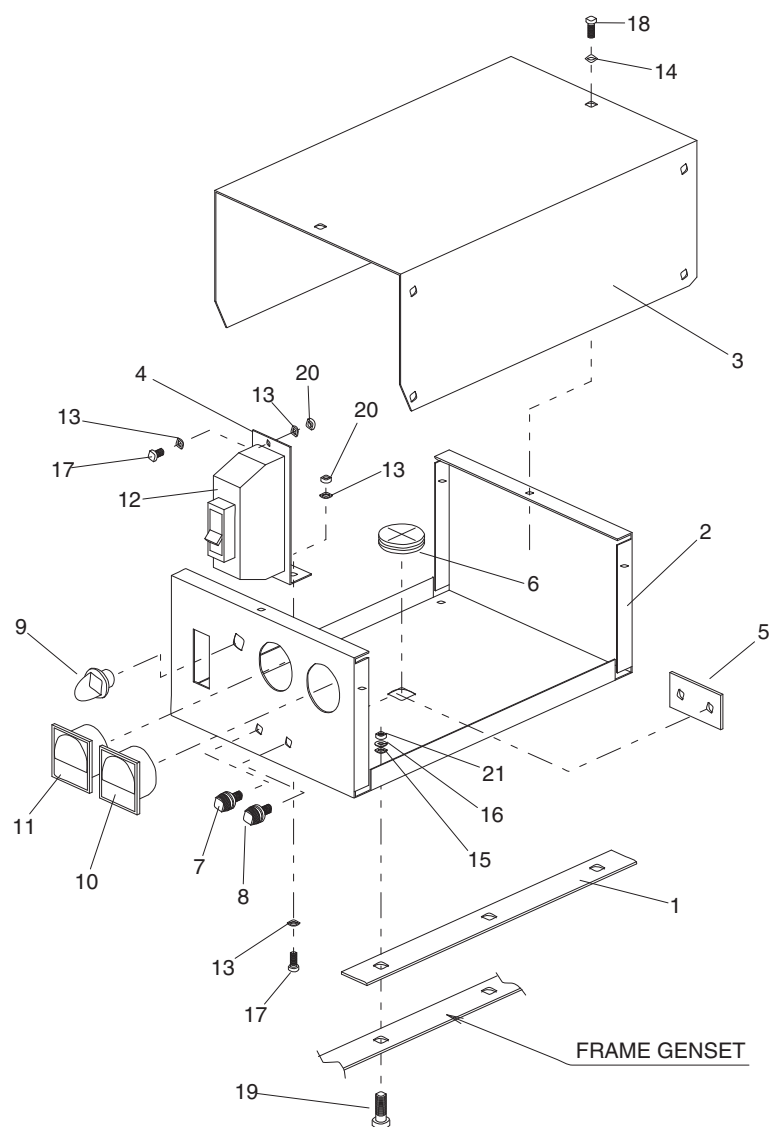


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG10S-ME		YTG10S-EE	
		5H	6H	5H	6H
1	FRAME CMP	1	1		
2	FRAME CMP			1	1
3	BRACKET	1	1		
4	BRACKET			1	1
5	BRACKET	1	1	1	1
6	BED	1	1	1	1
7	RODA EDLY NBJ-130	2	2	2	2
8	RODA EDLY NBK-130	2	2	2	2
9	NAME PLATE	1	1	1	1
10	NUT	12	12	12	12
11	RUBBER MOUNTING	6	6	6	6
12	WASHER, 6	4	4	4	4
13	WASHER, 10	16	16	16	16
14	WASHER, 6	4	4	4	4
15	WASHER, 10	16	16	16	16
16	WASHER, 10	12	12	12	12
17	BOLT, 6 X 20	4	4	4	4
18	BOLT, 10 X 20	16	16	16	16
19	BOLT, 12 X 60	1	1	1	1
20	NUT, 6	4	4	4	4
21	NUT, 10	16	16	16	16
22	NUT, 12	1	1	1	1
23	STOPPER ACCU			1	1
24	BOLT STOPPER ACCU			2	2
25	NUT, WING			2	2
26	BOLT, 8 X 25			1	1

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 10S: Panel



EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG10S-ME		YTG10S-EE	
		5H	6H	5H	6H
1	RUBBER MATTRESS	2	2	2	2
2	KOTAK PANEL(BAWAH)	1	1	1	1
3	KOTAK PANEL(TUTUP)	1	1	1	1
4	BRACKET S,BREAKER	1	1	1	1
5	EBONIT 80X35X5	1	1	1	1
6	RUBBER CABLE HOLE	1	1	1	1
7	BENDING PAST MERAH	1	1	1	1
8	BENDING PAST HITAM	1	1	1	1
9	PILOT LAMP MM-220V	1	1	1	1
10	AMPEREMETER HELES 50	1	1	1	1
11	VOLTMETER HELES 300V	1	1	1	1
12	NFB 1 PHASE 50A	1	1	1	1
13	WASHER, 5	8	8	8	8
14	WASHER, 5	12	12	12	12
15	WASHER, 6	6	6	6	6
16	WASHER, 6	6	6	6	6
17	BOLT, 5 X 12	4	4	4	4
18	BOLT, 5 X 12	12	12	12	12
19	BOLT, 6 X 20	6	6	6	6
20	NUT, 5	4	4	4	4
21	NUT, 6	6	6	6	6

YTG 10S: Generator

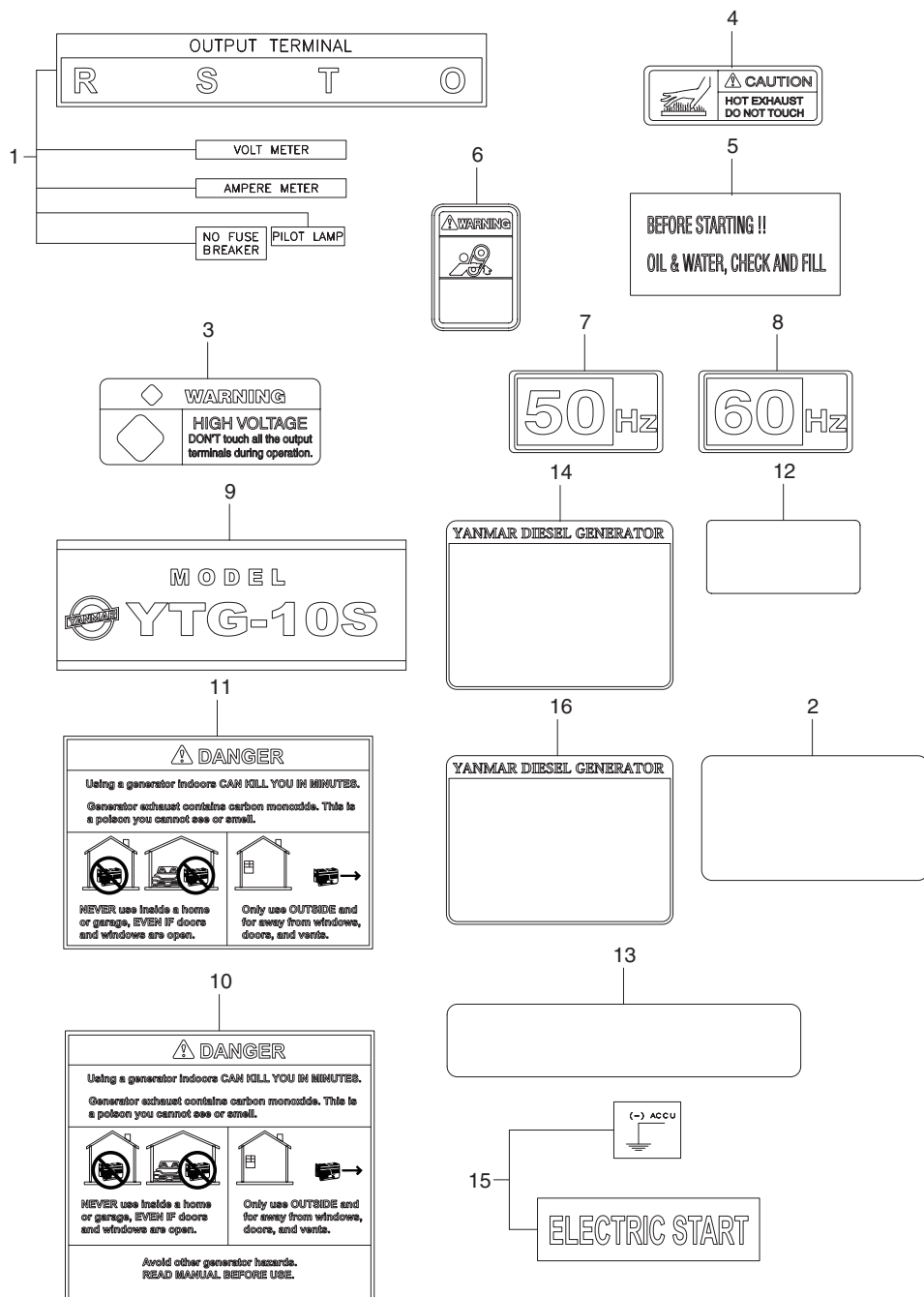


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG10S-ME		YTG10S-EE	
		5H	6H	5H	6H
1	WASHER, SHAFT	1	1	1	1
2	WASHER, SHAFT	1	1	1	1
3	GEN S20F 200/A 50HZ	1		1	
4	GEN S20F 200/A 60HZ		1		1
5	V-PULLEY	1		1	
6	V-PULLEY		1		1
7	V-PULLEY,ENGINE	1	1	1	1
8	STUB SHAFT	1	1	1	1
9	WASHER, 10	3	3	3	3
10	WASHER, 10	1	1	1	1
11	WASHER, 10	1	1	1	1
12	WASHER, 10	3	3	3	3
13	WASHER, 12	3	3	3	3
14	WASHER, 12	4	4	4	4
15	V BELT, SB 56	3		3	
16	V BELT, SB 55		3		3
17	BOLT, 10 X 20	1	1	1	1
18	BOLT, 10 X 20	1	1	1	1
19	BOLT, 10 X 30	3	3	3	3
20	BOLT, 12 X 35	3	3	3	3
21	BOLT, 12 X 40	4	4	4	4
22	NUT, 10	3	3	3	3
23	NUT, 12	4	4	4	4

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 10S: Sticker



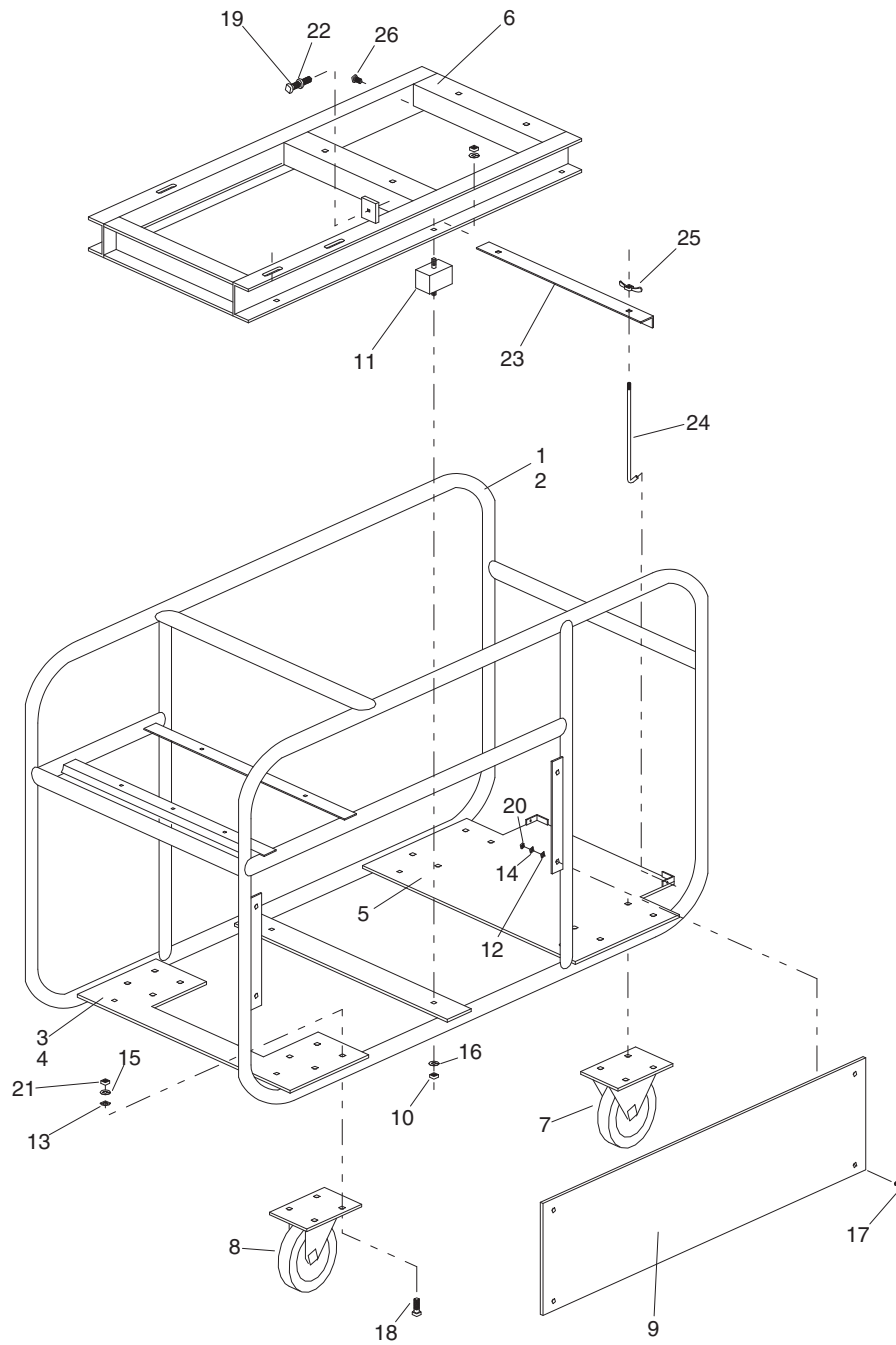
EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG10S-ME		YTG10S-EE	
		5H	6H	5H	6H
1	STICKER PANEL SET	1	1	1	1
2	STICKER WIRING DIAGR	1	1	1	1
3	STICKER HIGH VOLT	1	1	1	1
4	STICKER DONT TOUCH	1	1	1	1
5	STICKER BEFORE START	1	1	1	1
6	STICKER WARNING F/W	1	1	1	1
7	STICKER 50HZ	1		1	
8	STICKER 60HZ		1		1
9	STICKER YTG10S-M(E)	1	1	1	1
10	STICK. HAZARD FOR CA	2	2	2	2
11	STICK. HAZARD FOR PL	1	1	1	1
12	STICKER GS.BRUSHLESS	1	1	1	1
13	STICKER ABDUL HASYIM		1		1
14	STICKER SASO YTG5S		1		
15	STICKER ELECTRIC STR			1	1
16	STICKER SASO (60HZ)				1

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

11-2. Three Phase

YTG 6.5T: Frame

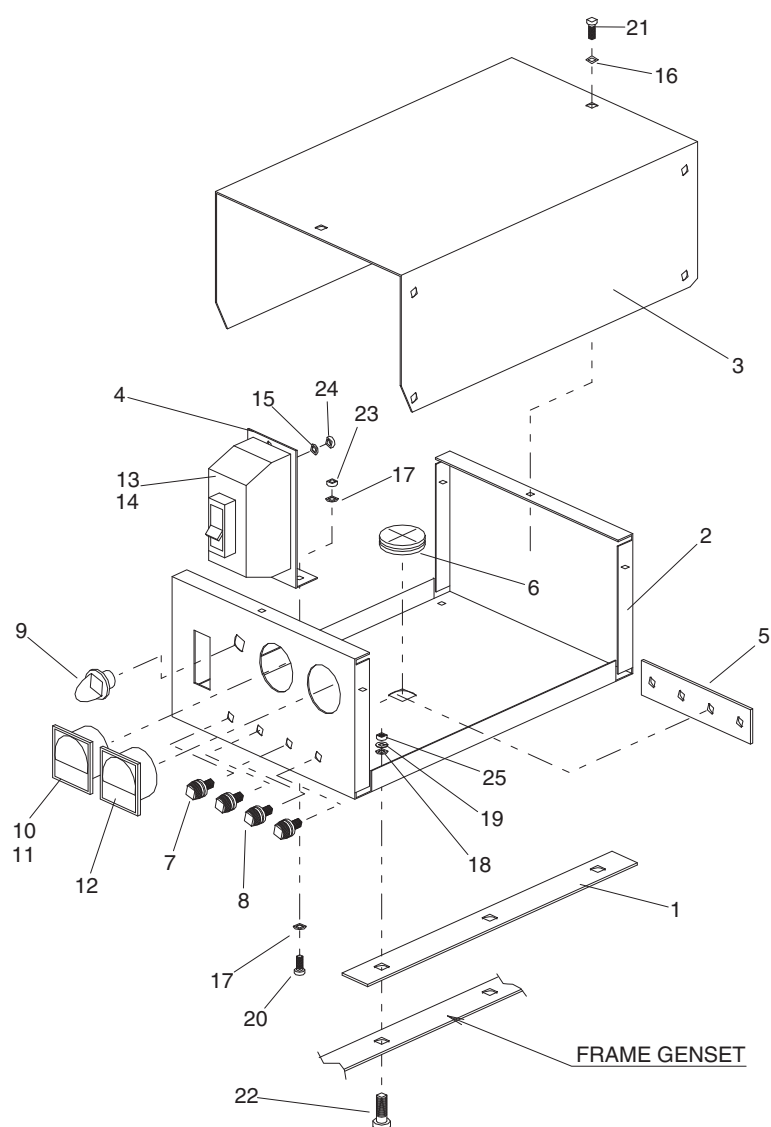


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG6.5T-ME			YTG6.5T-EE		
		5H	6H	6F	5H	6H	6F
1	FRAME CMP	1	1	1			
2	FRAME CMP				1	1	1
3	BRACKET	1	1	1			
4	BRACKET				1	1	1
5	BRACKET	1	1	1	1	1	1
6	BED	1	1	1	1	1	1
7	RODA EDLY NBJ-130	2	2	2	2	2	2
8	RODA EDLY NBK-130	2	2	2	2	2	2
9	NAME PLATE	1	1	1	1	1	1
10	NUT	8	8	8	8	8	8
11	RUBBER MOUNTING	4	4	4	4	4	4
12	WASHER, 6	4	4	4	4	4	4
13	WASHER, 10	16	16	16	16	16	16
14	WASHER, 6	4	4	4	4	4	4
15	WASHER, 10	16	16	16	16	16	16
16	WASHER, 10	8	8	8	8	8	8
17	BOLT, 6 X 20	4	4	4	4	4	4
18	BOLT, 10 X 20	16	16	16	16	16	16
19	BOLT, 12 X 60	1	1	1	1	1	1
20	NUT, 6	4	4	4	4	4	4
21	NUT, 10	16	16	16	16	16	16
22	NUT, 12	1	1	1	1	1	1
23	STOPPER ACCU				1	1	1
24	BOLT STOPPER ACCU				2	2	2
25	NUT, WING				2	2	2
26	BOLT, 8 X 25				1	1	1

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 6.5T: Panel

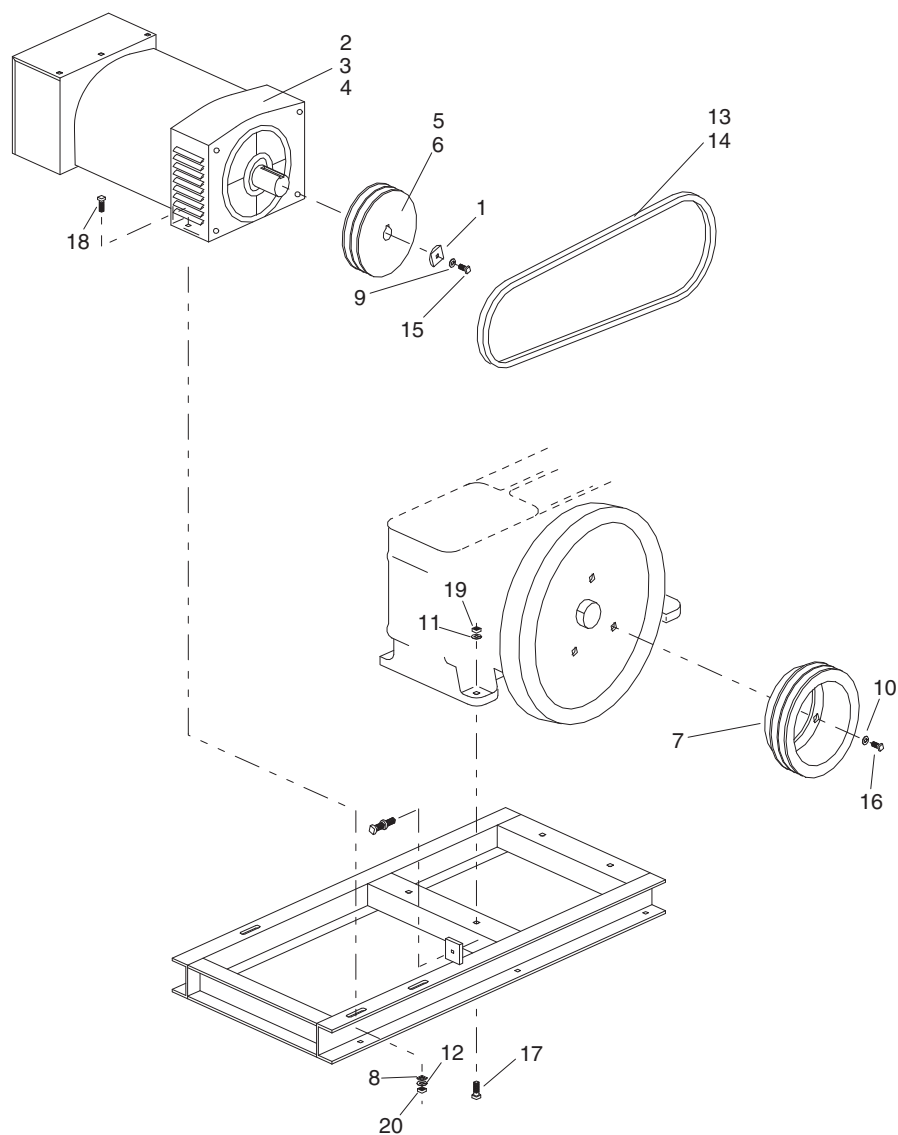


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG6.5T-ME			YTG6.5T-EE		
		5H	6H	6F	5H	6H	6F
1	RUBBER MATTRESS	2	2	2	2	2	2
2	KOTAK PANEL(BAWAH)	1	1	1	1	1	1
3	KOTAK PANEL(TUTUP)	1	1	1	1	1	1
4	BRACKET S,BREAKER	1	1	1	1	1	1
5	EBONIT 150X50X5	1	1	1	1	1	1
6	RUBBER CABLE HOLE	1	1	1	1	1	1
7	BENDING PAST MERAH	3	3	3	3	3	3
8	BENDING PAST HITAM	1	1	1	1	1	1
9	PILOT LAMP MM-220V	1	1	1	1	1	1
10	VOLTMETER HELES 500V	1	1		1	1	
11	VOLTMETER HELES 300V			1			1
12	AMPEREMETER HELES 15	1	1	1	1	1	1
13	NFB 30 CS 3 PHASE 10	1	1		1	1	
14	NFB 30 CS 3 PHASE 15			1			1
15	WASHER, 5	2	2	2	2	2	2
16	WASHER, 5	12	12	12	12	12	12
17	WASHER, 5	4	4	4	4	4	4
18	WASHER, 6	6	6	6	6	6	6
19	WASHER, 6	6	6	6	6	6	6
20	BOLT, 5 X 12	2	2	2	2	2	2
21	BOLT, 5 X 12	12	12	12	12	12	12
22	BOLT, 6 X 20	6	6	6	6	6	6
23	NUT, 5	2	2	2	2	2	2
24	NUT, 5	2	2	2	2	2	2
25	NUT, 6	6	6	6	6	6	6

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 6.5T: Generator

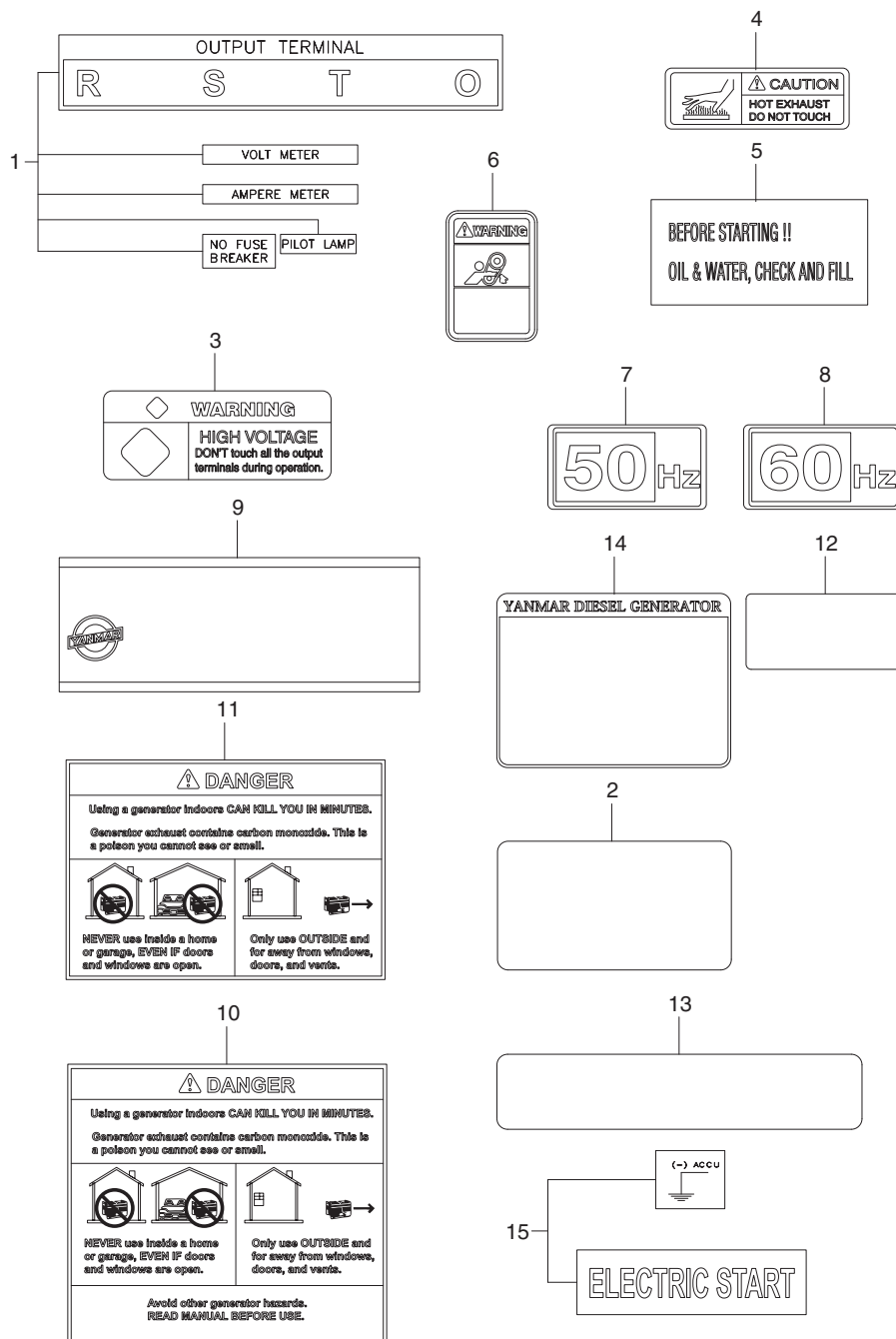


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG6.5T-ME			YTG6.5T-EE		
		5H	6H	6F	5H	6H	6F
1	WASHER, SHAFT	1	1	1	1	1	1
2	GEN EC03-1SN 50HZ	1			1		
3	GEN EC03-1SN 60HZ		1			1	
4	GEN EC03-1SN 60HZ			1			1
5	V-PULLEY	1			1		
6	V-PULLEY		1	1		1	1
7	V-PULLEY	1	1	1	1	1	1
8	WASHER, 12	4	4	4	4	4	4
9	WASHER, 10	1	1	1	1	1	1
10	WASHER, 12	3	3	3	3	3	3
11	WASHER, 12	4	4	4	4	4	4
12	WASHER, 12	4	4	4	4	4	4
13	V BELT, SB 55	2			2		
14	V BELT, SB 54		2	2		2	2
15	BOLT, 10 X 20	1	1	1	1	1	1
16	BOLT, 12 X 35	3	3	3	3	3	3
17	BOLT, 12 X 40	4	4	4	4	4	4
18	BOLT, 12 X 40	4	4	4	4	4	4
19	NUT, 12	4	4	4	4	4	4
20	NUT, 12	4	4	4	4	4	4

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 6.5T: Sticker

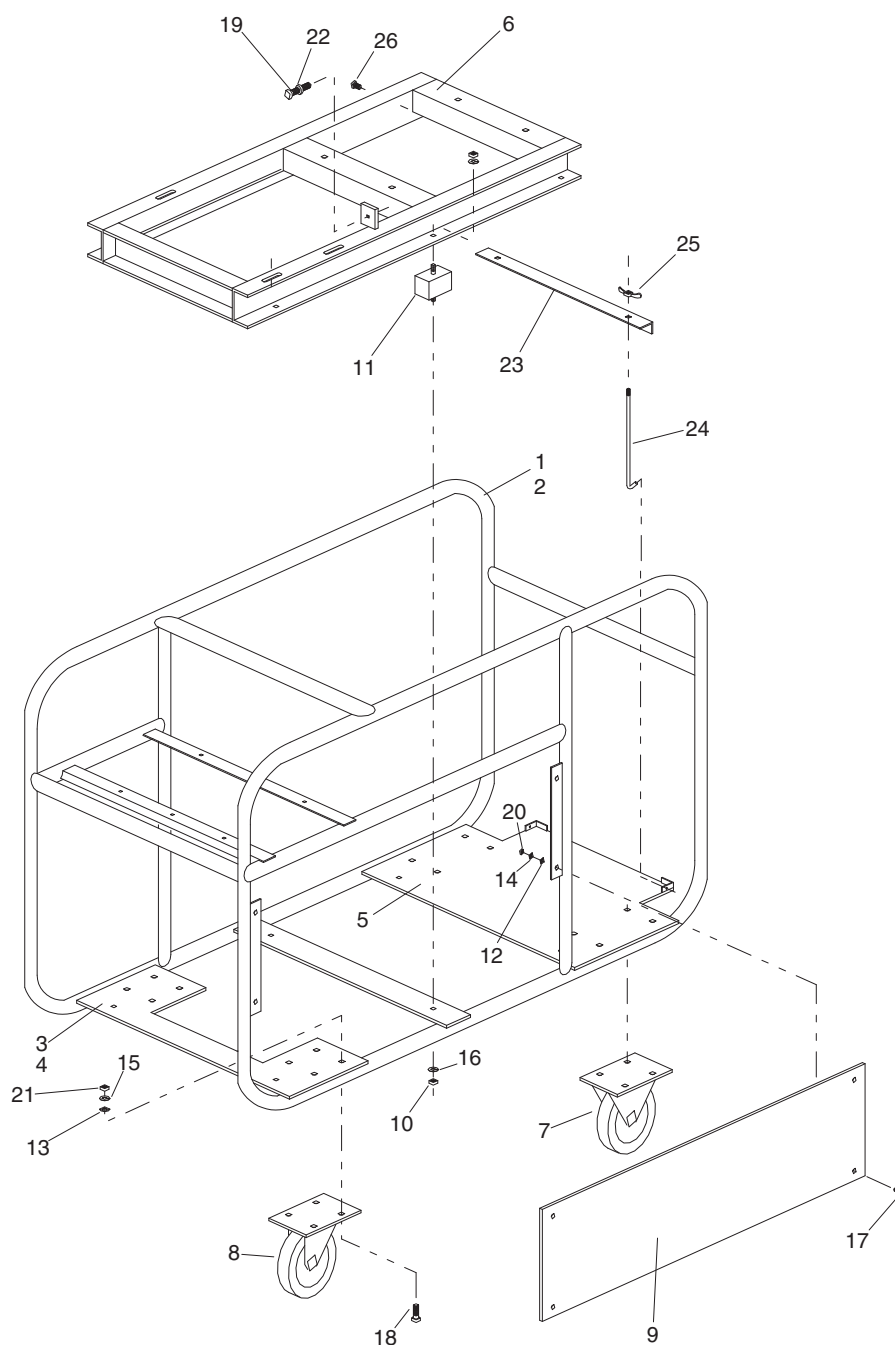


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG6.5T-ME			YTG6.5T-EE		
		5H	6H	6F	5H	6H	6F
1	STICKER PANEL SET	1	1	1	1	1	1
2	STICKER WIRING DIAGR	1	1	1	1	1	1
3	STICKER HIGH VOLT	1	1	1	1	1	1
4	STICKER DONT TOUCH	1	1	1	1	1	1
5	STICKER BEFORE START	1	1	1	1	1	1
6	STICKER WARNING F/W	1	1	1	1	1	1
7	STICKER 50HZ	1			1		
8	STICKER 60HZ		1	1		1	1
9	STICKER YTG6.5T-M(E)	1	1	1	1	1	1
10	STICK. HAZARD FOR CA	2	2	2	2	2	2
11	STICK. HAZARD FOR PL	1	1	1	1	1	1
12	STICKER GS.BRUSHLESS	1	1	1	1	1	1
13	STICKER ABDUL HASYIM		1	1		1	1
14	STICKER SASO (60HZ)		1	1		1	1
15	STICKER ELECTRIC STR				1	1	1

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 9.0T: Frame

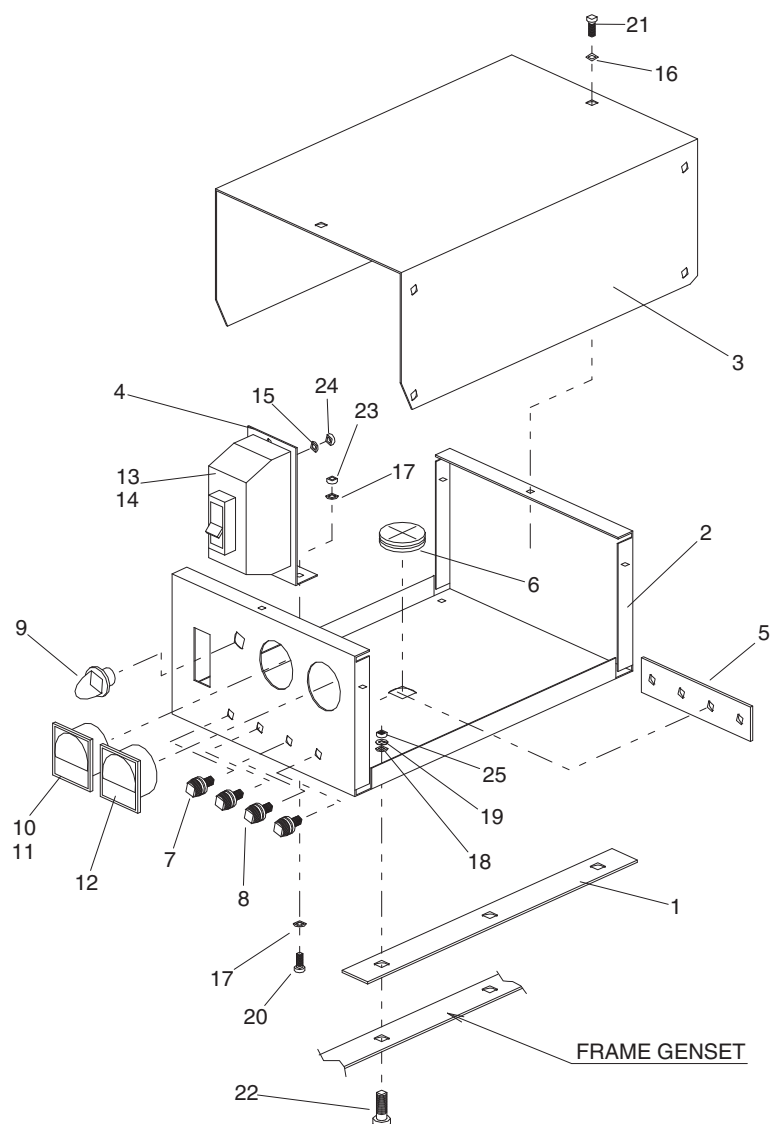


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG9.0T-ME			YTG9.0T-EE		
		5H	6H	6F	5H	6H	6F
1	FRAME CMP	1	1	1			
2	FRAME CMP				1	1	1
3	BRACKET	1	1	1			
4	BRACKET				1	1	1
5	RUBBER MATTRESS	1	1	1	1	1	1
6	BED	1	1	1	1	1	1
7	RODA EDLY NBJ-130	2	2	2	2	2	2
8	RODA EDLY NBK-130	2	2	2	2	2	2
9	NAME PLATE	1	1	1	1	1	1
10	NUT	12	12	12	12	12	12
11	RUBBER MOUNTING	6	6	6	6	6	6
12	WASHER, 6	4	4	4	4	4	4
13	WASHER, 10	16	16	16	16	16	16
14	WASHER, 6	4	4	4	4	4	4
15	WASHER, 10	16	16	16	16	16	16
16	WASHER, 10	12	12	12	12	12	12
17	BOLT, 6 X 20	4	4	4	4	4	4
18	BOLT, 10 X 20	16	16	16	16	16	16
19	BOLT, 12 X 60	1	1	1	1	1	1
20	NUT, 6	4	4	4	4	4	4
21	NUT, 10	16	16	16	16	16	16
22	NUT, 12	1	1	1	1	1	1
23	STOPPER ACCU				1	1	1
24	BOLT STOPPER ACCU				2	2	2
25	NUT, WING				2	2	2
26	BOLT, 8 X 25				1	1	1

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 9.0T: Panel

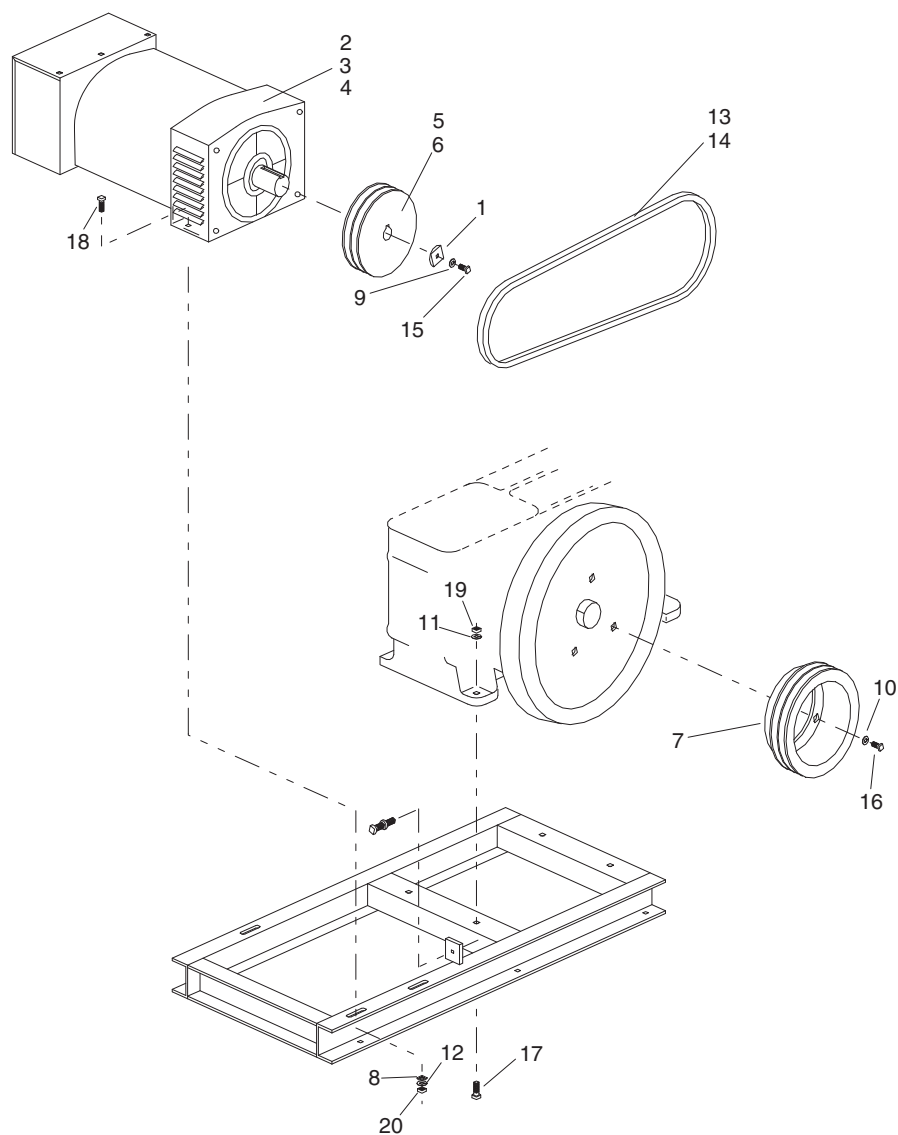


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG9.0T-ME			YTG9.0T-EE		
		5H	6H	6F	5H	6H	6F
1	RUBBER MATTRESS	2	2	2	2	2	2
2	KOTAK PANEL(BAWAH)	1	1	1	1	1	1
3	KOTAK PANEL(TUTUP)	1	1	1	1	1	1
4	BRACKET S,BREAKER	1	1	1	1	1	1
5	EBONIT 150X50X5	1	1	1	1	1	1
6	RUBBER CABLE HOLE	1	1	1	1	1	1
7	BENDING PAST MERAH	3	3	3	3	3	3
8	BENDING PAST HITAM	1	1	1	1	1	1
9	PILOT LAMP MM-220V	1	1	1	1	1	1
10	VOLTMETER HELES 500V	1	1		1	1	
11	VOLTMETER HELES 300V			1			1
12	AMPEREMETER HELES 15	1	1	1	1	1	1
13	NFB 30 CS 3 PHASE 10	1	1		1	1	
14	NFB 30 CS 3 PHASE 15			1			1
15	WASHER, 5	2	2	2	2	2	2
16	WASHER, 5	12	12	12	12	12	12
17	WASHER, 5	4	4	4	4	4	4
18	WASHER, 6	6	6	6	6	6	6
19	WASHER, 6	6	6	6	6	6	6
20	BOLT, 5 X 12	2	2	2	2	2	2
21	BOLT, 5 X 12	12	12	12	12	12	12
22	BOLT, 6 X 20	6	6	6	6	6	6
23	NUT, 5	2	2	2	2	2	2
24	NUT, 5	2	2	2	2	2	2
25	NUT, 6	6	6	6	6	6	6

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 9.0T: Generator

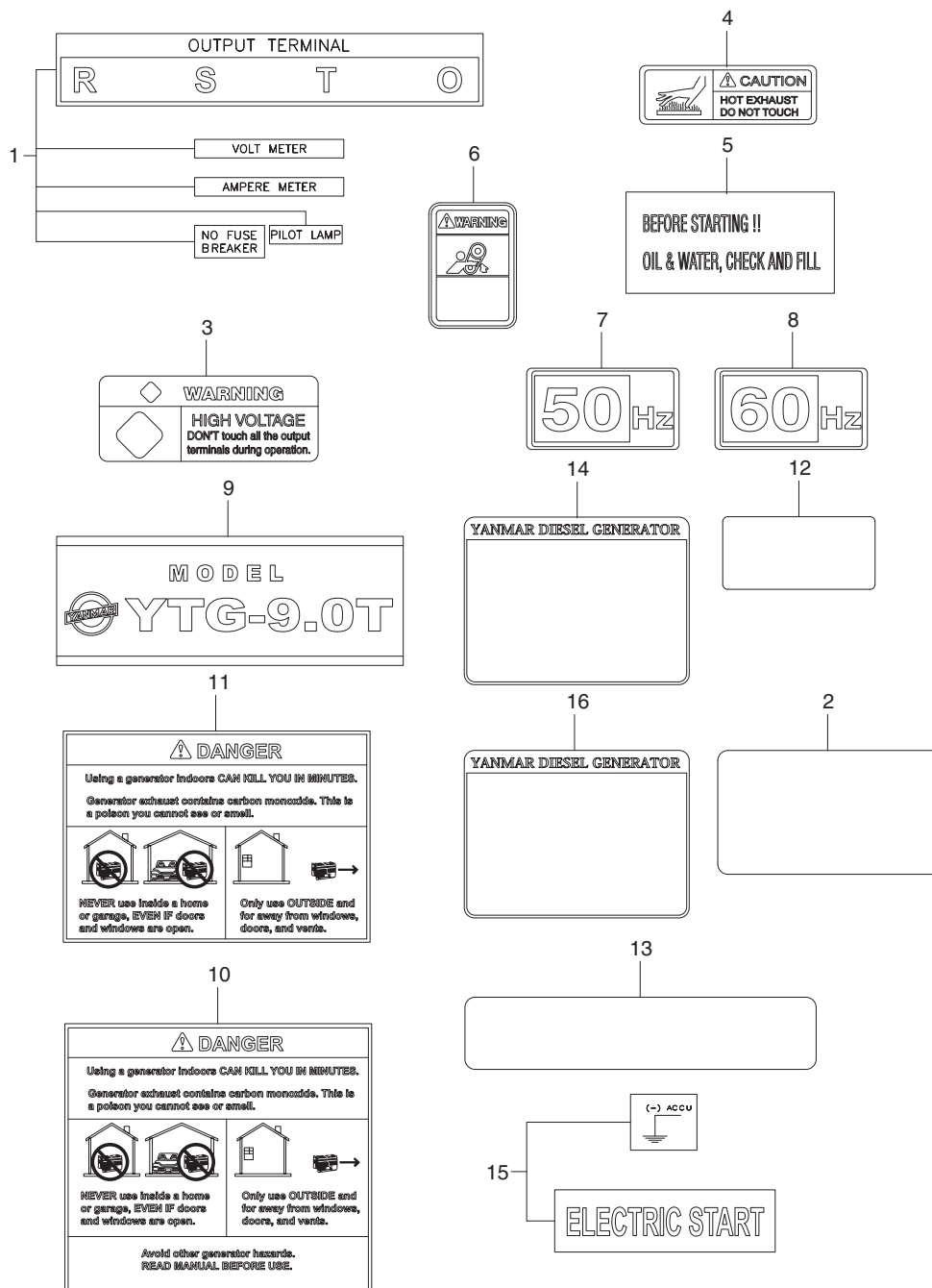


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG9.0T-ME			YTG9.0T-EE		
		5H	6H	6F	5H	6H	6F
1	WASHER, SHAFT	1	1	1	1	1	1
2	GEN EC03-2SN 50HZ	1			1		
3	GEN EC03-2SN 60HZ		1			1	
4	GEN EC03-2SN 60HZ			1			1
5	V-PULLEY	1			1		
6	V-PULLEY		1	1		1	1
7	V-PULLEY	1	1	1	1	1	1
8	WASHER, 12	4	4	4	4	4	4
9	WASHER, 10	1	1	1	1	1	1
10	WASHER, 12	3	3	3	3	3	3
11	WASHER, 12	4	4	4	4	4	4
12	WASHER, 12	4	4	4	4	4	4
13	V BELT, SB 57	2			2		
14	V BELT, SB 55		2	2		2	2
15	BOLT, 10 X 20	1	1	1	1	1	1
16	BOLT, 12 X 35	3	3	3	3	3	3
17	BOLT, 12 X 40	4	4	4	4	4	4
18	BOLT, 12 X 40	4	4	4	4	4	4
19	NUT, 12	4	4	4	4	4	4
20	NUT, 12	4	4	4	4	4	4

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 9.0T: Sticker

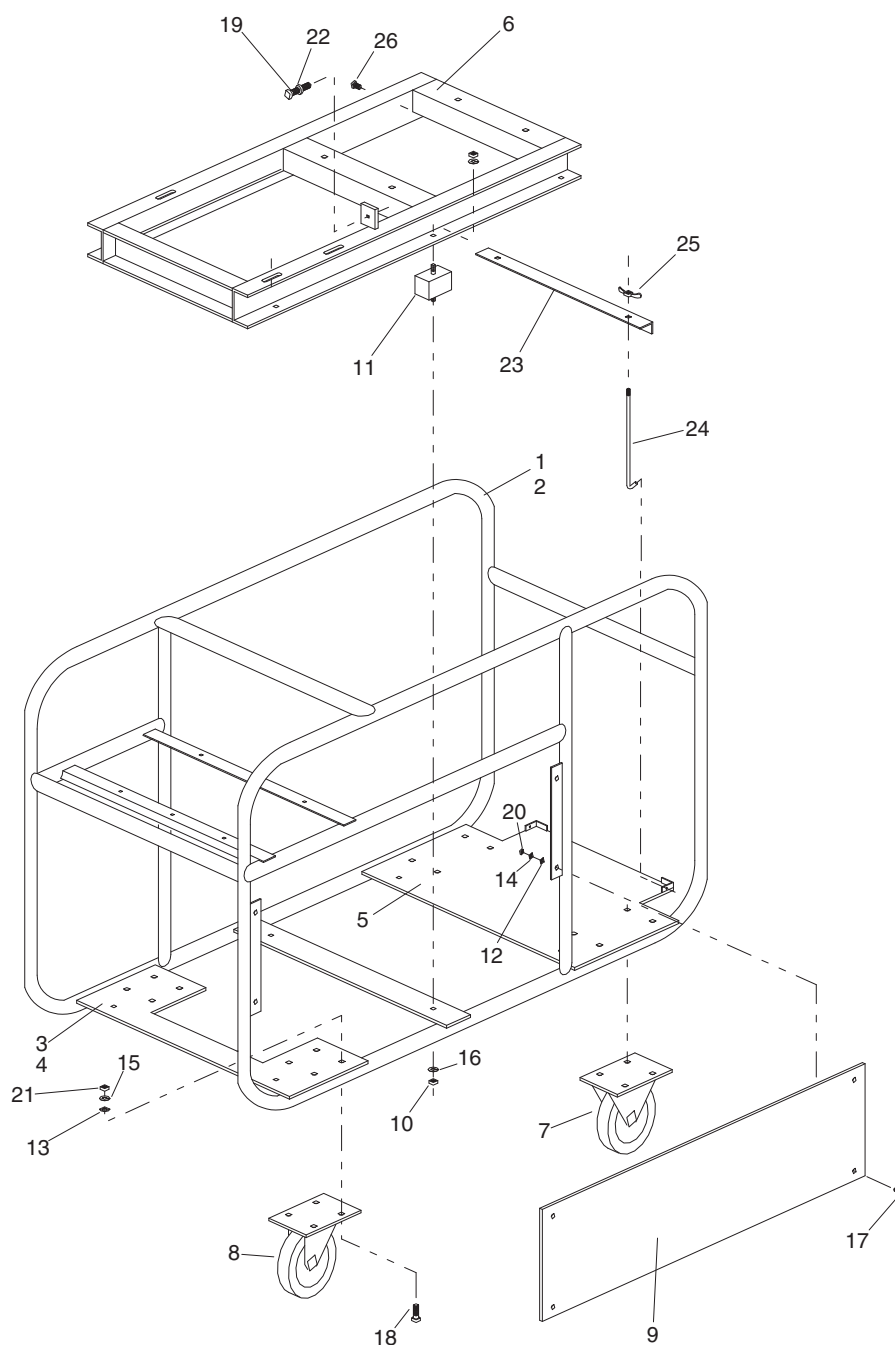


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG9.0T-ME			YTG9.0T-EE		
		5H	6H	6F	5H	6H	6F
1	STICKER PANEL SET	1	1	1	1	1	1
2	STICKER WIRING DIAGR	1	1	1	1	1	1
3	STICKER HIGH VOLT	1	1	1	1	1	1
4	STICKER DONT TOUCH	1	1	1	1	1	1
5	STICKER BEFORE START	1	1	1	1	1	1
6	STICKER WARNING F/W	1	1	1	1	1	1
7	STICKER 50HZ	1			1		
8	STICKER 60HZ		1	1		1	1
9	STICKER MDL YTG9T(E)	1	1	1	1	1	1
10	STICK. HAZARD FOR CA	2	2	2	2	2	2
11	STICK. HAZARD FOR PL	1	1	1	1	1	1
12	STICKER GS.BRUSHLESS	1	1	1	1	1	1
13	STICKER ABDUL HASYIM		1	1		1	1
14	STICKER SASO (60HZ)		1	1			
15	STICKER ELECTRIC STR				1	1	1
16	STICKER SASO (60HZ)					1	1

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 12.5T: Frame

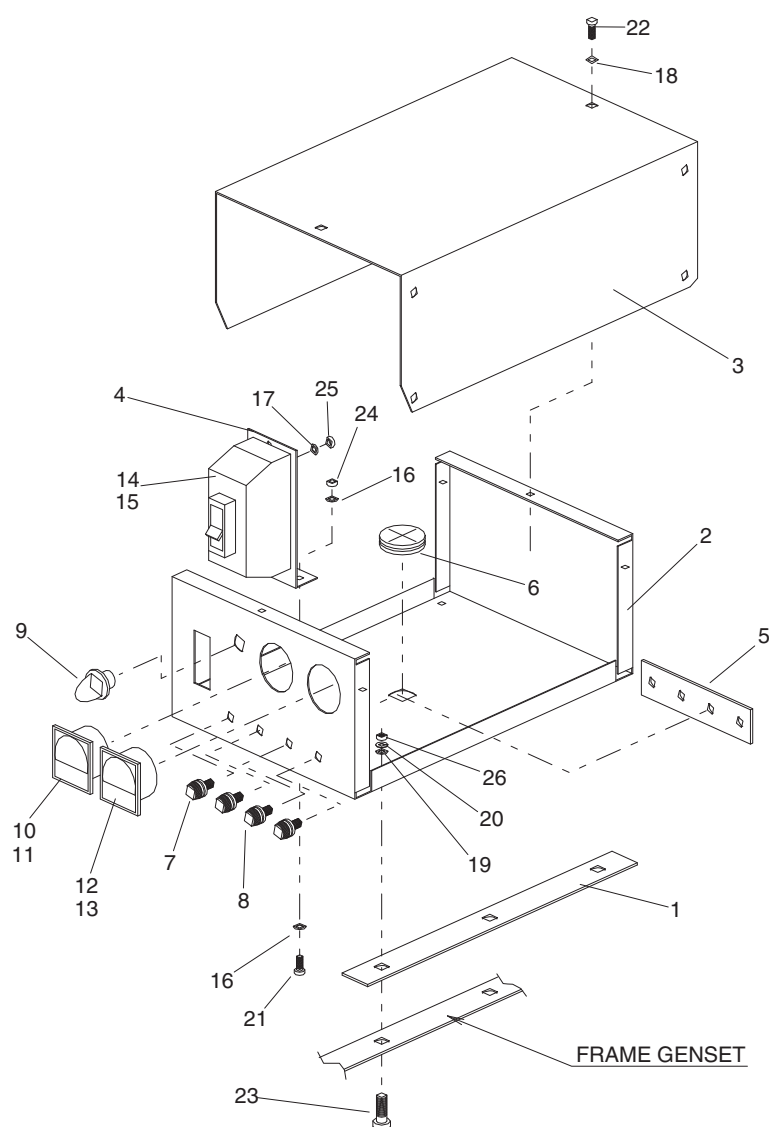


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG12.5T-ME			YTG12.5T-EE		
		5H	6H	6F	5H	6H	6F
1	FRAME CMP	1	1	1			
2	FRAME CMP				1	1	1
3	BRACKET	1	1	1			
4	BRACKET				1	1	1
5	BRACKET	1	1	1	1	1	1
6	BED	1	1	1	1	1	1
7	RODA EDLY NBJ-130	2	2	2	2	2	2
8	RODA EDLY NBK-130	2	2	2	2	2	2
9	NAME PLATE	1	1	1	1	1	1
10	NUT	12	12	12	12	12	12
11	RUBBER MOUNTING	6	6	6	6	6	6
12	WASHER, 6	4	4	4	4	4	4
13	WASHER, 10	16	16	16	16	16	16
14	WASHER, 6	4	4	4	4	4	4
15	WASHER, 10	16	16	16	16	16	16
16	WASHER, 10	12	12	12	12	12	12
17	BOLT, 6 X 20	4	4	4	4	4	4
18	BOLT, 10 X 20	16	16	16	16	16	16
19	BOLT, 12 X 60	1	1	1	1	1	1
20	NUT, 6	4	4	4	4	4	4
21	NUT, 10	16	16	16	16	16	16
22	NUT, 12	1	1	1	1	1	1
23	STOPPER ACCU				1	1	1
24	BOLT STOPPER ACCU				2	2	2
25	NUT, WING				2	2	2
26	BOLT, 8 X 25				1	1	1

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 12.5T: Panel

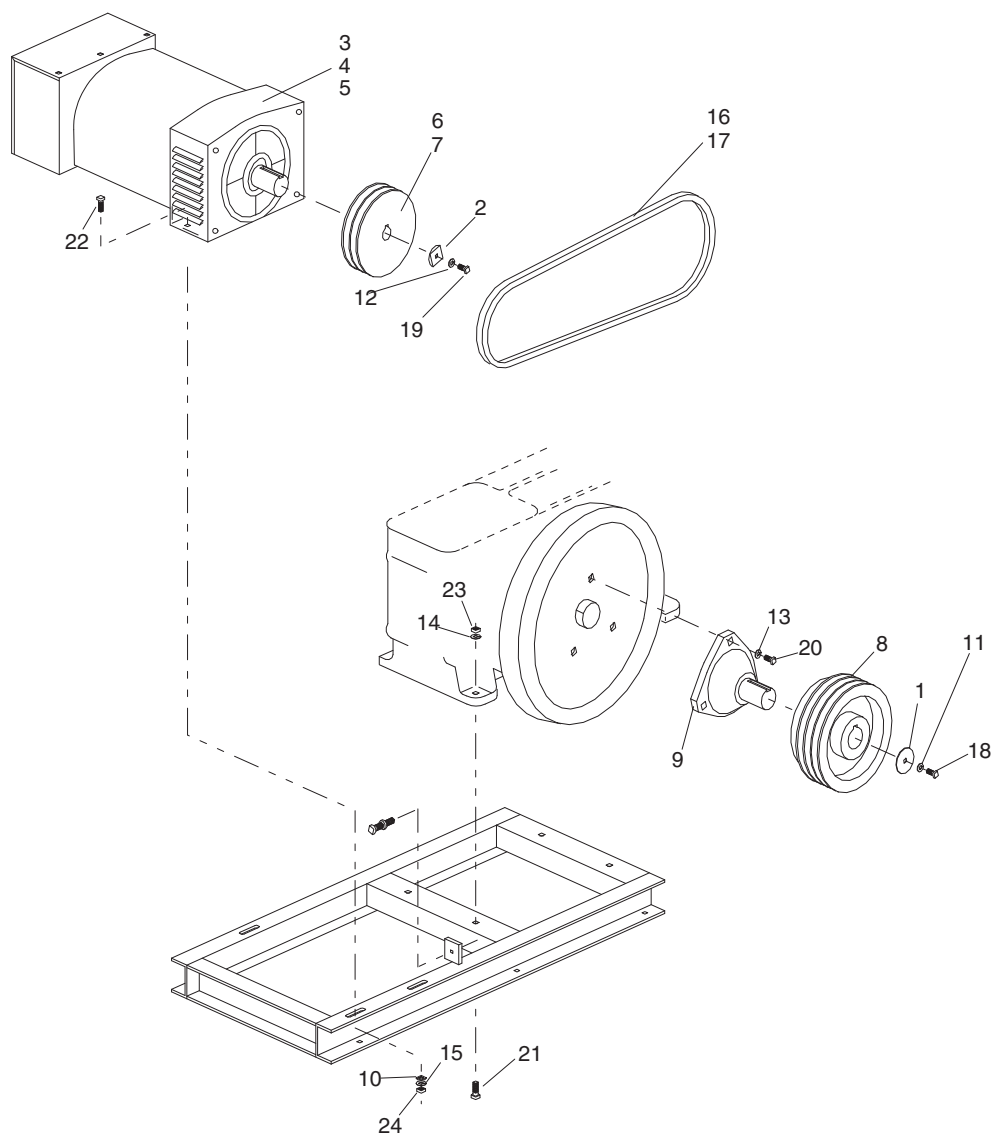


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG12.5T-ME			YTG12.5T-EE		
		5H	6H	6F	5H	6H	6F
1	RUBBER MATTRESS	2	2	2	2	2	2
2	KOTAK PANEL(BAWAH)	1	1	1	1	1	1
3	KOTAK PANEL(TUTUP)	1	1	1	1	1	1
4	BRACKET S,BREAKER	1	1	1	1	1	1
5	EBONIT 150X50X5	1	1	1	1	1	1
6	RUBBER CABLE HOLE	1	1	1	1	1	1
7	BENDING PAST MERAH	3	3	3	3	3	3
8	BENDING PAST HITAM	1	1	1	1	1	1
9	PILOT LAMP MM-220V	1	1	1	1	1	1
10	VOLTMETER HELES 300V	1	1		1	1	
11	VOLTMETER HELES 500V			1			1
12	AMPEREMETER HELES 30	1	1		1	1	
13	AMPEREMETER HELES 50			1			1
14	NFB 30 CS 3 PHASE 20	1	1		1	1	
15	NFB 30 CS 3 PHASE 30			1			1
16	WASHER, 5	4	4	4	4	4	4
17	WASHER, 5	2	2	2	2	2	2
18	WASHER, 5	12	12	12	12	12	12
19	WASHER, 6	6	6	6	6	6	6
20	WASHER, 6	6	6	6	6	6	6
21	BOLT, 5 X 12	2	2	2	2	2	2
22	BOLT, 5 X 12	12	12	12	12	12	12
23	BOLT, 6 X 20	6	6	6	6	6	6
24	NUT, 5	2	2	2	2	2	2
25	NUT, 5	2	2	2	2	2	2
6	NUT, 6	6	6	6	6	6	6

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 12.5T: Generator

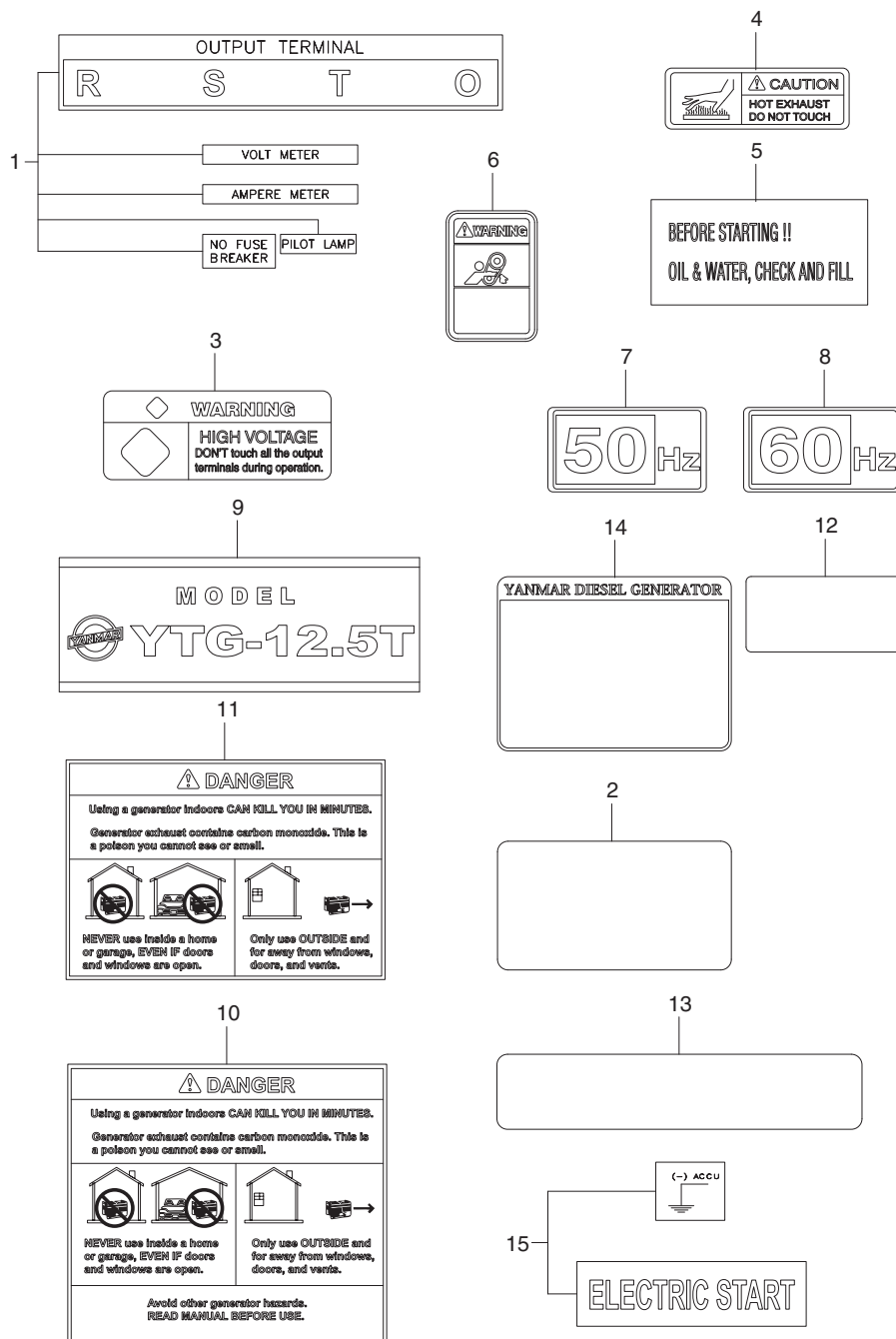


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG12.5T-ME			YTG12.5T-EE		
		5H	6H	6F	5H	6H	6F
1	WASHER, SHAFT	1	1	1	1	1	1
2	WASHER, SHAFT	1	1	1	1	1	1
3	GEN EC03-3SN 50HZ	1			1		
4	GEN EC03-3SN 60HZ		1			1	
5	GEN EC03-3SN 60HZ			1			1
6	V-PULLEY	1	1		1	1	
7	V-PULLEY			1			1
8	V-PULLEY,ENGINE	1	1	1	1	1	1
9	STUB SHAFT	1	1	1	1	1	1
10	WASHER, 12	4	4	4	4	4	4
11	WASHER, 10	1	1	1	1	1	1
12	WASHER, 10	1	1	1	1	1	1
13	WASHER, 12	3	3	3	3	3	3
14	WASHER, 12	4	4	4	4	4	4
15	WASHER, 12	4	4	4	4	4	4
16	V BELT, SB 59	3			3		
17	V BELT, SB 57		3	3		3	3
18	BOLT, 10 X 20	1	1	1	1	1	1
19	BOLT, 10 X 20	1	1	1	1	1	1
20	BOLT, 12 X 35	3	3	3	3	3	3
21	BOLT, 12 X 40	4	4	4	4	4	4
22	BOLT, 12 X 40	4	4	4	4	4	4
23	NUT, 12	4	4	4	4	4	4
24	NUT, 12	4	4	4	4	4	4

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 12.5T: Sticker

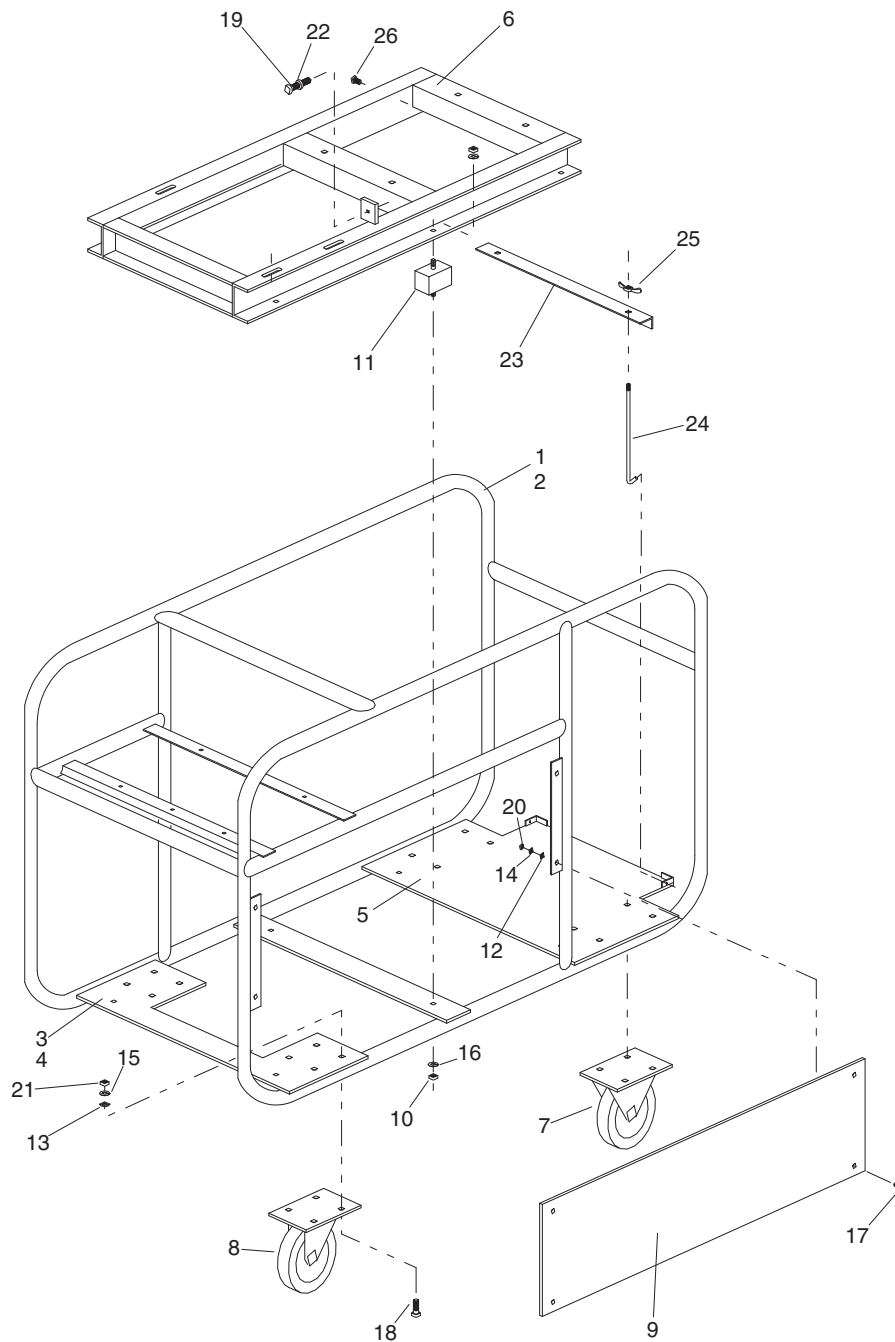


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG12.5T-ME			YTG12.5T-EE		
		5H	6H	6F	5H	6H	6F
1	STICKER PANEL SET	1	1	1	1	1	1
2	STICKER WIRING DIAGR	1	1	1	1	1	1
3	STICKER HIGH VOLT	1	1	1	1	1	1
4	STICKER DONT TOUCH	1	1	1	1	1	1
5	STICKER BEFORE START	1	1	1	1	1	1
6	STICKER WARNING F/W	1	1	1	1	1	1
7	STICKER 50HZ	1			1		
8	STICKER 60HZ		1	1		1	1
9	STICKER YTG12.5T	1	1	1	1	1	1
10	STICK. HAZARD FOR CA	2	2	2	2	2	2
11	STICK. HAZARD FOR PL	1	1	1	1	1	1
12	STICKER GS.BRUSHLESS	1	1	1	1	1	1
13	STICKER ABDUL HASYIM			1		1	1
14	STICKER SASO YTG12.5			1		1	1
15	STICKER ELECTRIC STR				1	1	1

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 15T: Frame

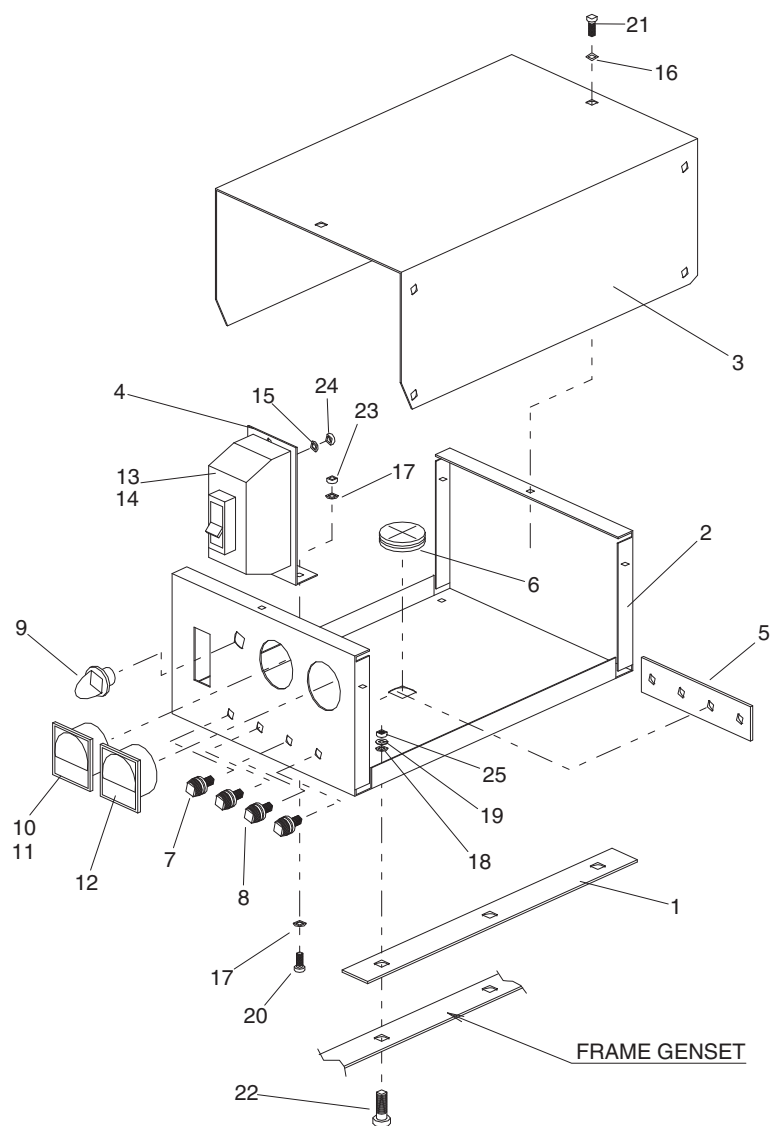


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG15T-ME			YTG15T-EE		
		5H	6H	6F	5H	6H	6F
1	FRAME CMP	1	1	1			
2	FRAME CMP				1	1	1
3	BRACKET	1	1	1			
4	BRACKET				1	1	1
5	BRACKET	1	1	1	1	1	1
6	BED	1	1	1	1	1	1
7	RODA EDLY NBJ-130	2	2	2	2	2	2
8	RODA EDLY NBK-130	2	2	2	2	2	2
9	NAME PLATE	1	1	1	1	1	1
10	NUT	12	12	12	12	12	12
11	RUBBER MOUNTING	6	6	6	6	6	6
12	WASHER, 6	4	4	4	4	4	4
13	WASHER, 10	16	16	16	16	16	16
14	WASHER, 6	4	4	4	4	4	4
15	WASHER, 10	16	16	16	16	16	16
16	WASHER, 10	12	12	12	12	12	12
17	BOLT, 6 X 20	4	4	4	4	4	4
18	BOLT, 10 X 20	16	16	16	16	16	16
19	BOLT, 12 X 60	1	1	1	1	1	1
20	NUT, 6	4	4	4	4	4	4
21	NUT, 10	16	16	16	16	16	16
22	NUT, 12	1	1	1	1	1	1
23	STOPPER ACCU				1	1	1
24	BOLT STOPPER ACCU				2	2	2
25	NUT, WING				2	2	2
26	BOLT, 8 X 25				1	1	1

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 15T: Panel

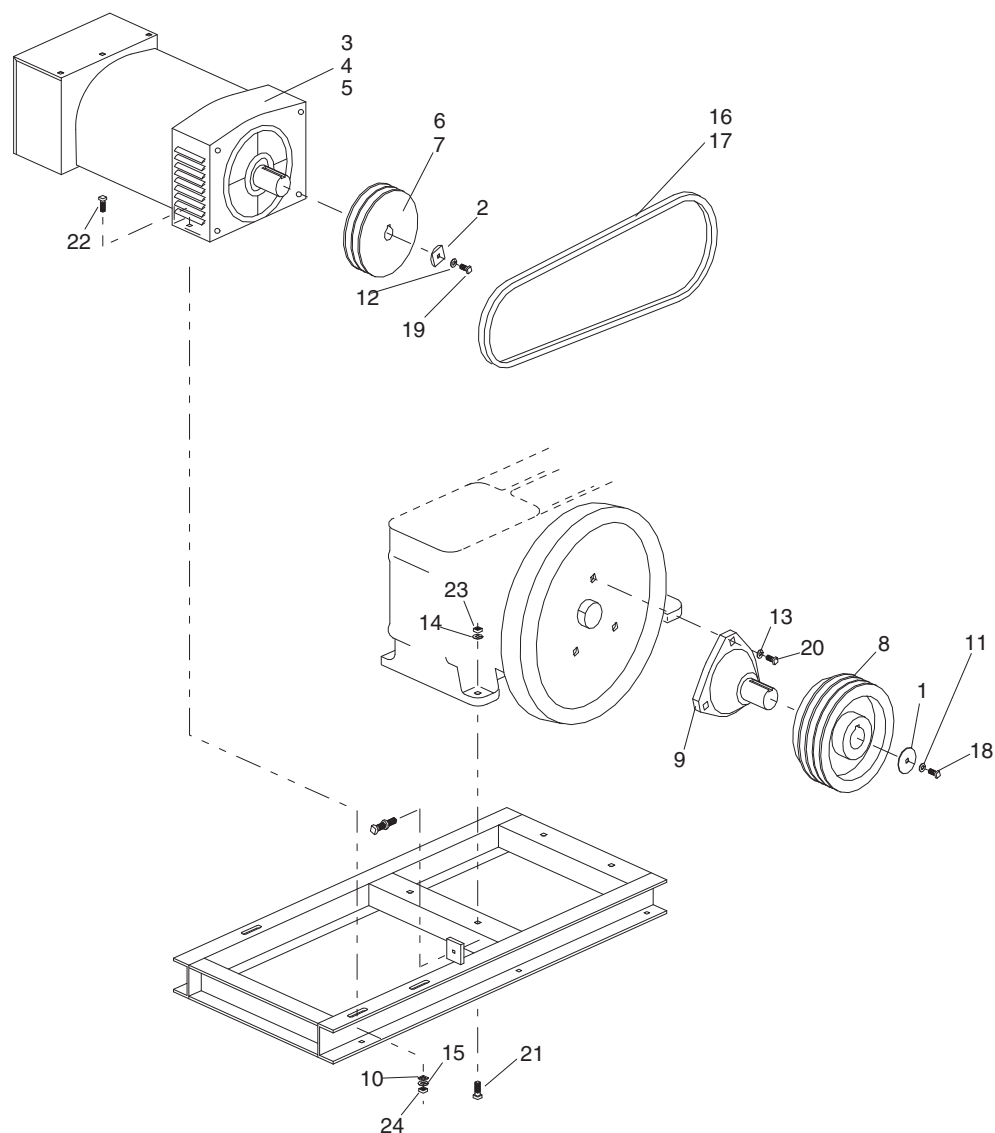


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG15T-ME			YTG15T-EE		
		5H	6H	6F	5H	6H	6F
1	RUBBER MATTRESS	2	2	2	2	2	2
2	KOTAK PANEL(BAWAH)	1	1	1	1	1	1
3	KOTAK PANEL(TUTUP)	1	1	1	1	1	1
4	BRACKET S,BREAKER	1	1	1	1	1	1
5	EBONIT 150X50X5	1	1	1	1	1	1
6	RUBBER CABLE HOLE	1	1	1	1	1	1
7	BENDING PAST MERAH	3	3	3	3	3	3
8	BENDING PAST HITAM	1	1	1	1	1	1
9	PILOT LAMP MM-220V	1	1	1	1	1	1
10	VOLTMETER HELES 500V	1	1		1	1	
11	VOLTMETER HELES 300V			1			1
12	AMPEREMETER HELES 15	1	1	1	1	1	1
13	NFB 30 CS 3 PHASE 10	1	1		1	1	
14	NFB 30 CS 3 PHASE 15			1			1
15	WASHER, 5	2	2	2	2	2	2
16	WASHER, 5	12	12	12	12	12	12
17	WASHER, 5	4	4	4	4	4	4
18	WASHER, 6	6	6	6	6	6	6
19	WASHER, 6	6	6	6	6	6	6
20	BOLT, 5 X 12	2	2	2	2	2	2
21	BOLT, 5 X 12	12	12	12	12	12	12
22	BOLT, 6 X 20	6	6	6	6	6	6
23	NUT, 5	2	2	2	2	2	2
24	NUT, 5	2	2	2	2	2	2
25	NUT, 6	6	6	6	6	6	6

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 15T: Generator

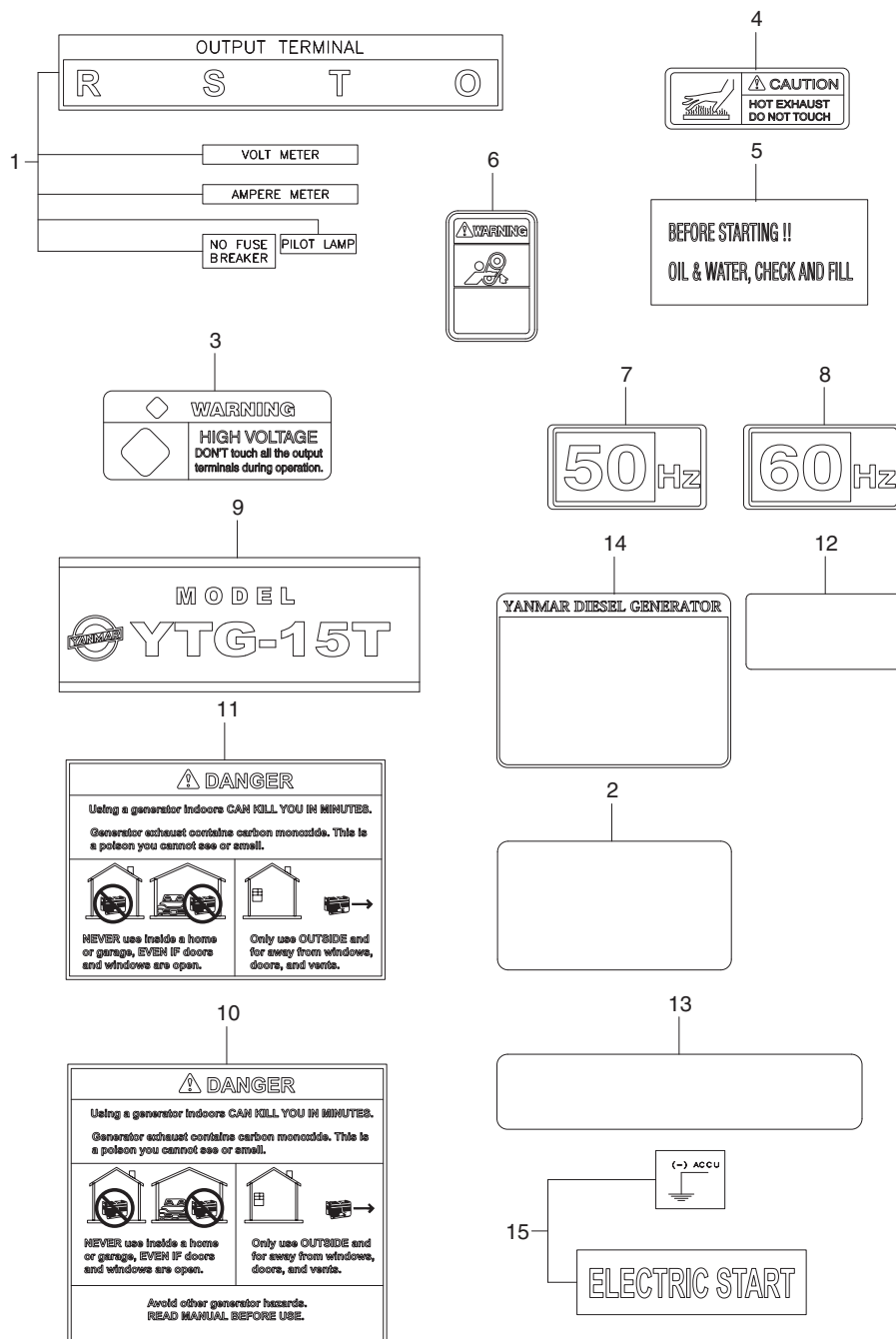


EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG15T-ME			YTG15T-EE		
		5H	6H	6F	5H	6H	6F
1	WASHER, SHAFT	1	1	1	1	1	1
2	WASHER, SHAFT	1	1	1	1	1	1
3	GEN.ECO3-1LN 50HZ	1			1		
4	GEN.ECO3-1LN 60HZ		1			1	
5	GEN.ECO3-1LN 60HZ			1			1
6	V-PULLEY	1			1		
7	V-PULLEY		1	1		1	1
8	V-PULLEY,ENGINE	1	1	1	1	1	1
9	STUB SHAFT	1	1	1	1	1	1
10	WASHER, 12	4	4	4	4	4	4
11	WASHER, 10	1	1	1	1	1	1
12	WASHER, 10	1	1	1	1	1	1
13	WASHER, 12	3	3	3	3	3	3
14	WASHER, 12	4	4	4	4	4	4
15	WASHER, 12	4	4	4	4	4	4
16	V BELT, SB 59	3			3		
17	V BELT, SB 56		3	3		3	3
18	BOLT, 10 X 20	1	1	1	1	1	1
19	BOLT, 10 X 20	1	1	1	1	1	1
20	BOLT, 12 X 35	3	3	3	3	3	3
21	BOLT, 12 X 40	4	4	4	4	4	4
22	BOLT, 12 X 40	4	4	4	4	4	4
23	NUT, 12	4	4	4	4	4	4
24	NUT, 12	4	4	4	4	4	4

EXPLODED VIEWS OF CONTROLLER AND GENERATOR

YTG 15T: Sticker



EXPLODED VIEWS OF CONTROLLER AND GENERATOR

REF.	Part Name	YTG15T-ME			YTG15T-EE		
		5H	6H	6F	5H	6H	6F
1	STICKER PANEL SET	1	1	1	1	1	1
2	STICKER WIRING DIAGR	1	1	1	1	1	1
3	STICKER HIGH VOLT	1	1	1	1	1	1
4	STICKER DONT TOUCH	1	1	1	1	1	1
5	STICKER BEFORE START	1	1	1	1	1	1
6	STICKER WARNING F/W	1	1	1	1	1	
7	STICKER 50HZ	1			1		
8	STICKER 60HZ		1	1		1	1
9	STICKER MDL YTG15T	1	1	1	1	1	2
10	STICK. HAZARD FOR CA	2	2	2	2	2	1
11	STICK. HAZARD FOR PL	1	1	1	1	1	1
12	STICKER GS.BRUSHLESS	1	1	1	1	1	1
13	STICKER ABDUL HASYIM		1	1		1	1
14	STICKER SASO		1	1		1	1
15	STICKER ELECTRIC STR				1	1	1



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