

INSTRUCTIONS FOR T2DR, T2DR-L, T3DR, T2GR & Y2DR

Read before operation and follow the instructions.

1) Lubrication:

Before operation, supply the oiler (OIL) in full with steam oil (Blue liquid). Lubricate metal, crosshead, crankshaft, eccentric, etc. as well as all revolution and movement sections with machine oil or 50 weight automobile engine oil. Supply oil, and lubricate the engine prior to every operation.

2) Breaking-In:

Initially, run the engine twice (for about 40-minute periods in total) at approximately 1,000 – 1,500 rpm. DO NOT EXCEED 1,500 RPM! On starting up T2GR for the first time, firing a boiler using one burner nozzle is sufficient because the engine should only be run at low speed during break-in.

3) Reversing gear:

Do not change the gear forcibly before breaking in. Change it at SLOW position during operation. Close the regulator once as change is difficult.

4) Avoid running the engine at maximum rpm without a load.

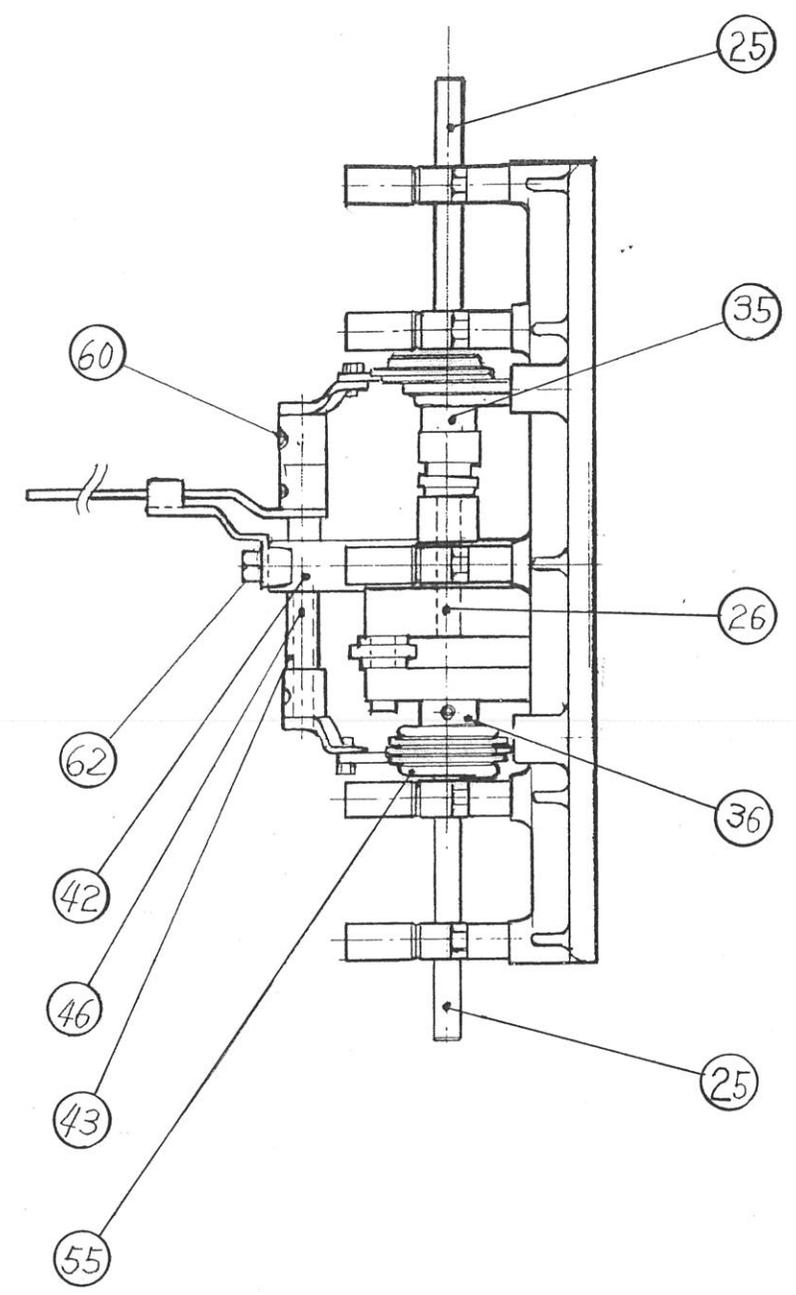
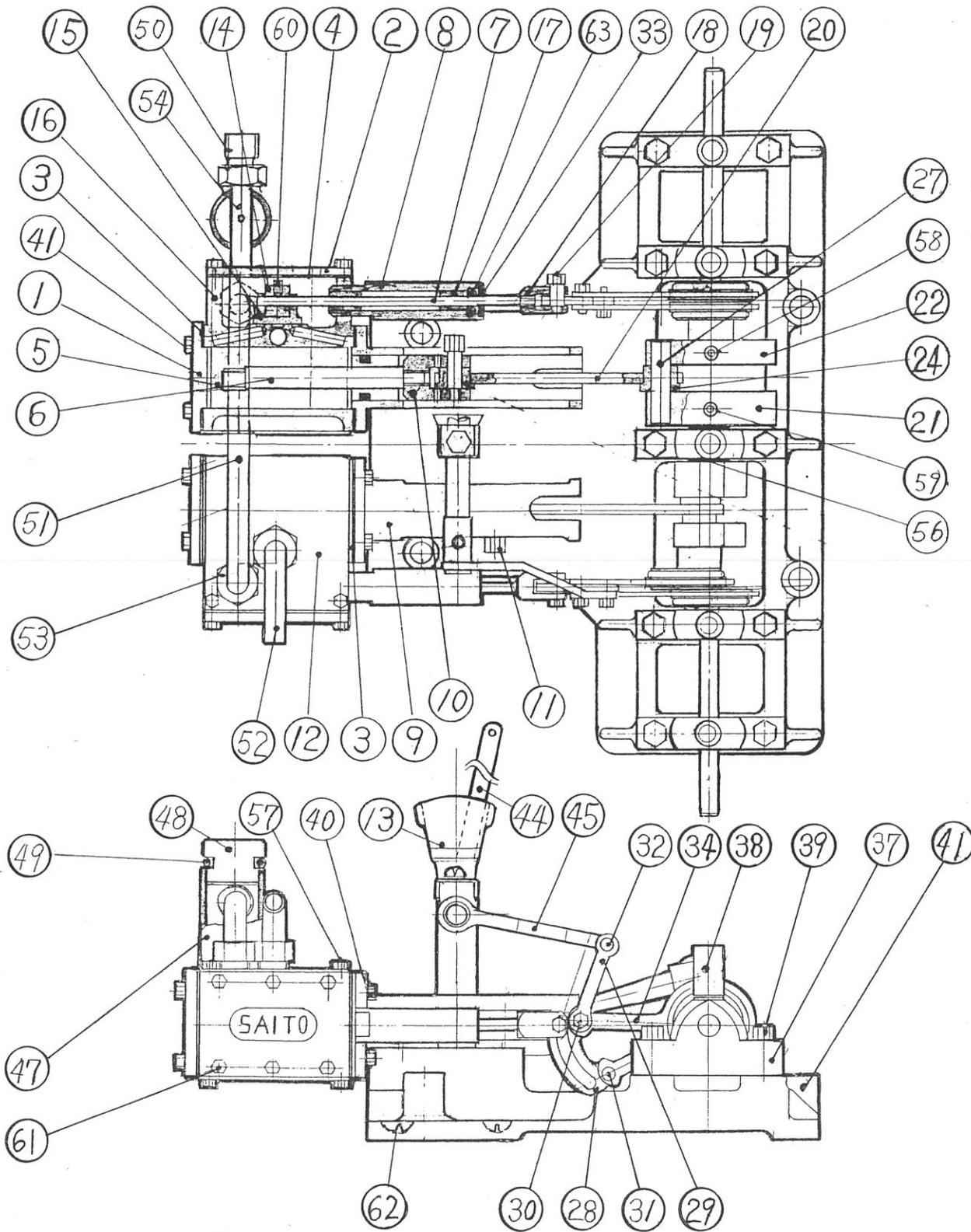
5) The engine should be mounted on a flat surface. If the surface is uneven, the engine bed will be warped and the shaft will not work smoothly. (Wood screws are sufficient for anchoring steam engines.)

6) Steam engines are not necessary to be adjusted always. However, with every operation, the engine must be supplied with sufficient oil (steam oil to the oiler, machine oil or 50 weight mobil oil to the others with the exception of the oiler).
Warning: DO NOT use machine oil or spindle oil in the oiler.

7) Do not take the engine apart unless necessary.

Any products disassembled by users shall be out of warranty.

8) When the pressure gauge shows 2kg/cm², open the regulator quickly to full-open position. When starting up a T2GR, the engine may knock badly due to a “water-hammer” phenomenon. This is not unusual nor damaging to the engine. Once the engine is warmed up sufficiently, it will run smoothly.



名称	Y2DR STEAM ENGINE	材質	改訂年月日	① 61-1-14
型式	Y2DR	1台分個数	"	2
部品番号		縮尺	"	3
部品名	組立図	設計年月日	設計	
有限会社 齋藤製作所		図面番号		

Y2DR Parts List

NO	Description	Q' ty	NO	Description	Q' ty
1	Cylinder Head	2	Piston Assembly		2set
2	Valve Cover	2	5	Piston	2
3	Cylinder Head Packing	4	6	Piston Rod	2
4	Valve Cover Packing	2	10	Cross Head	2
7	Valve Rod	2	Valve Rod Guide Assembly		2set
9	Cross Head Guide	2	8	Valve Rod Guide	2
11	Gudgeon Pin	2	17	Valve Rod Guide Assembly	2
12	Cylinder Cover	2	33	Grand Cover	2
13	Reverse Lever Stopper	1	63	O-Ring [P-2]	2
14	Valve Rod Collar	2	Crank Shaft & Con' rod Assembly		2set
15	Valve	2	20	Connecting Rod	2
16	Cylinder (Right)	1	21	Crank Arm [A]	2
	Cylinder (Left)	1	22	Crank Arm [B]	2
18	Valve Rod Joint	2	24	Connecting Rod Metal [B]	2
19	Valve Pin	2	25	Crank Shaft [A]	2
26	Crank Shaft [B] (Center)	1	27	Crank Pin	2
35	Eccentric & Link Assembly (Right)	1set	56	Crank Shaft Washerr	2
37	Crank Shaft Bearing	5	58	Set Screw [M3]	4
38	Oil Cup	5	59	Set Screw [M3]	4
39	Crank Shaft Bearing Screw	10	Eccentric & Link Assembly (Left)		1set
40	Cylinder Head Screw	16	28	Expansion Ring	2
41	Engine Bed	1	29	Rod	2
44	Reverse Lever	1	30	Expansion Ring Pin [A]	2
46	Shaft	1	31	Expansion Ring Pin [B]	2
48	Oiler Cap	1	34	Valve Rod	4
49	O-Ring [P-11]	1	36	Eccentric (Left)	1
52	Exhaust Pipe	2	Reverse Lever Stand Assembly		1set
56	Crank Shaft Washerr	2	42	Reverse Lever Stand	1
57	Cylinder Cover Screw	8	43	Reverse Shaft Receiver	1
60	Set Screw [M3]	4	Oiler Assembly		1set
61	Valve Cover Screw	12	47	Oiler Body	1
62	Bolt	1	50	Oiler Nipple	1
Bell Crank Assembly		2set	51	Intake Pipe	1
32	Bell Crank Pin	2	53	Nipple	4
45	Bell Crank	2	54	Steam Pipe	1