Appendix XI

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.

Detailed Comparison List between The Request of The Gambia and The Basic Design

(Rehabilitation Work and Spare Parts Supply)

1. Comparison List of quantity of Got requirement and Suppry						
		Q'ty rqu	Supr	<u>ly Q't</u>	У	
ITEM	Cord No.	by GUC	Rehabi	Spare	Total	Remark
				1		
- Engine Casing -	i 					
1 Stud for cylinder cover	K11122	8	-			
2 O-ring for ring Kill6	K11126	14	12	6	18	
3 O-ring for nut K1117	K11127	14	12	6	18	
4 Upper bearing half shell	1			1		
for crank shaft bearing	K12001	7	7	<u>                                      </u>	8	
5 Lower bearing half shell	• • • • • • • • • • • • • • • • • • •	1				
for crank shaft bearing	K12010	7	7	1	8	
- Oill Sump -						
1 O-ring for flange K11815	K11827	2	2	2	4	
2 O-ring for flange K11815	K11828	2	2	2	4	
- Crank Shaft Locating Bearing -	•					
1 Locating bearing	K12051	2	2	1	3	
2 Thrust bearing ring halves	K12061	4	4	1	5	
- Engine Frame -		<u> </u>				
1 Tublar sealing for H16101	H16104	12	12	12	24	
2 Packing for 116102	116105		12	12	24	
2 Packing for 116102 3 Sealing	1116113	+	2	2	4	
- Casing Cover -	1			} 1		
1 Tublar sealing for K16221	1116228	12	1	+ <u>-</u>	2	
2 Tublar sealing for K16220	1116227		111		22	
2 Tublar sealing for K16220 3 Tublar sealing for K11222	1116228	+ <u>-</u>	2	2	4	
- End Cover (Engine with built-o		<u>]</u>	<u> </u>			
1 Joint for cover K16505	K16507	r	f	i	2	
I JOINT TOL COVEL KI0303	<u></u>			[	4	
Pulindon Linon	1	1		Í		
- Cylinder Liner -	}		<b> </b>			·
1 Clamping piece, complete for	<b>V01001</b>				4	
cylinder liner	K21001		4		4	
2 Bolt for clamping piece	K21002		8		8 8 8	
3 Conical disc for clamping piece	K21005		8		0	
4 Conical cap for clamping piece	K21008			~~~~~		
5 Cylinder liner	<u>K21401</u>					
4 Conical cap for clamping piece 5 Cylinder liner 6 O-ring for cylinder liner 7 O-ring for cylinder liner	<u>K21404</u>	24	24	24	48	
	K21405	36	36	36	72	
8 O-ring for cylinder liner	K21406	24	24	24	.48	
9 Sealing ring for cylinder liner	K21407	12	12	12	24	
	}					
- Cylinder Head -	 					
1 Cooling water guide for	1		1			
cylinder head	<u>K27004</u>			1	<u>1</u> 6	
2 Indicator valve, complete	<u>K27016</u>		6		6	
3 Nut for stud K11122(ZV)	1					
and K21112(ZL)	K27039	8	-	8	8	
	K27040	-	8		8	
4 Sleeve for nut K27038 5 Nut for stud K27038	K27045	72	8		8	
6 Tubular sealing for cover K27007						
and bearing casing K28000	K27046	· ·	24	24	48	
7 O-ring for cylinder head	K27051	24	12	12	24	
8 O-ring for ring K27010	K27055	24	24		21	
9 O-ring for nut K27039	K27056	24	8		8	
O O LING IOL HUG NG/000	<u></u>	L	L	Ł	<u> </u>	

## 1. Comparsion List of Quantity of GUC requirement and Suppply

Remarks : "Cord No." shows Parts No. indicated in the instruction

manuals prepared by the manufacture of No.4 DEG.

							<u>No.2</u>
		1 1	Q'ty rqu	Supp	ly Q't	<u>у</u>	
	ITEM	Cord No.	by GUC	<u> Rehabil</u>	Spare	<u>Total</u>	Remark
	- Cylinder Head - 続き						
10	Cylinder head complete with					1	l
	insert bush K27107, valve seat						
	K27108 and valve K27109 with	į	ļ	l	į	Į	Į
	O-ring K27122 and valve guide	1	1				
	K27112 with O-ring K27113	<u>K27100</u>			1	1	
11	Insert bush for fuel injector		1				
 	valve	<u>K27107</u>	4	4	-8	12	
12	Valve seat for inlet valve	K27108	24	12	12	24	
13	Valve seat for outlet valve	K27109	24	12	12	24	
14	Valve guide	K27112	48	-	48	48	
15	0-ring for valve guide K27112	K27113	96	96	96	192	
16	0-ring for valve seat K27108	K27122	144	192	192	384	[
	- Fuel Injection Valve -				[ 		
1	Fuel injection valve complete,	,   			   		
	but without flange	K27200	-	12	-	12	
2	Washer for flange K27026	K27028	6	12		12	
3	Cyl. pin for nozzle holder	K27202	12	6		6	
4	Spring plate for fuel						
	injection valve	<u>K27205</u>	6	3	i	$\frac{3}{3}$	
	Spring for fuel injection valve	K27210		3			
6_	Rubber ring for nozzle holder	K27211	36	36	72	108	
7	Rubber ring for nut K27209	K27212	12	12	24	36	
8	Nozzle with needle and cooling	i					
	jacket complete, for fuel	i i			j		
	injection valve	<u>K27240</u>	12		12	12	
		Í	{		1	{	i
·	- High Pressure Pipe -				i 		
1	High pressure pipe complete	K27250	<u> </u>	12	i	12	
	High pressure pipe	K27251	2			-	
3	Valve body for fuel press. valve		2				
4	Valve hous. for fuel press valve		2				
5	Spring for fuel pressure valve	<u>K27257</u>	12	-		-	
6	Clamp ring for high press pipe	K27261	12			-	
7	Sealing for housing K27259	K27262	12	12		12	
8	Metal tube for high press pipe	K27264	2				
9	O-ring for hous. K27259 & K27263	<u>K27275</u>		24	24	48	
		i		ļ			ł
	- Starting Valve -				 		
1_1_	Staring valve complete	K27400		12	· -	12	
2	Piston ring for K27404	K27409	24		<b></b>		
3	Piston ring for K27404	K27410	24		i <b>-</b>		
4	0-ring for K27402 and K27403	<u>K27411</u>	36/48		• • • • • • • • • • • • • • • • • • •		
5	Spring for strating valve	<u>K27414</u>				-	
6	Spring plate for strating valve	K27415	6			-	
7	Self-loacking nut for K27401	<u>K27417</u>	12				
8	Sealing ring for start. valve	<u>K27419</u>	12	<u> </u>	-	<u> </u>	

XI-2

					:		No.3
<b></b>			Q'ty rq				
L		<u>Cord No.</u>	<u>by GUC</u>	<u>Rehabil</u>	Spare.	<u>Total</u>	<u>Remark</u>
	- Inlet and Outlet Valve -				i +		
1	Inlet and outlet valve, complete	K27500		24/24	 	24/24	
2	Conical clamping ring, two-part,						
[	for inlet and outlet valve	<u>K27503</u>	24		24	24	
3	Outer valve spring for inlet		1				
1	and outlet valve	K27504		-	i –	-	
4	Inner valve spring for inlet	r	T	1		•	
	and outlet valve	K27505	-	·			
5	Valve spindle for inlet valve	K27511	24		-	-	
6	Valve spindle for outlet valve	K27512	24		24	24	
	- Releif Valve -				 		
1	Releif valve, complete	K27700		12	•	12	
2	Spacer foe releif valve	K27704	12			-	
	Spring foe releif valve	K27705		-		-	
	Packing ring	H27707		12	12	24	
	· · · · · · · · · · · · · · · · · · ·		1	]	1	<b>.</b>	
	- Bearing Casing for Cylinder He	ad			 		
1	Bearing casing, complete	K28000	-	-	1	1	
2	Bush for main rocker arm K28005	K28008	20	24		24	
3	Spherical headed pin for K28005	r	1	T			
	and K28015	K28009	10	48		48	
4	Bush for auxiliary rocker arm		T				
	K28015	K28018	20	12	6	18	
5	Pin for auxiliary rocker arm			1			
	K28015	<u>K28020</u>	24	24	→ +	24	
6	Special bolt for main rocker				i		
	arm K28005	<u>K28034</u>	4	24		24	
7	Special bolt for main rocker	r — — — — — — — — — — — — — — — — — — —			1		
	arm K28005	K28035	4	24	į	24	
8	Lock nut for K28034	K28037	4	24	-	24	
9	Ball-shaped cup for rocker arm	K28041	72	36	36	72	
10	Spring cage for K28041	K28042	72	36	36	72	
11	O-ring for flange K28029	K28044	24	24	12	36	
12	Spring cage for K28041 O-ring for flange K28029 O-ring for flange K28030	K28045	24	24	12	36	
1	- Crank Shaft -			<u> </u>			
1	Vibration damper, complete	K31510	1			_	
[				]	,,   		
1	- Connecting Rod -				 		
[_1	Upper bearing half	K33210	12	12	1	13	
$\frac{1}{2}$	Lower bearing half	K33220	12	12	1	13	
$\frac{3}{4}$	Bolt for bearing half	K33400		4	24	28	
4	Bolt for bearing half	K33410		4	24	28	
5	Serrated bolt-locking device	   			1		
	for bolt K33410	K33420	10	8	48	56	
6	Screw	K33421	20	24	24	48	
7	Locking plate	K33422	48	24	24	48	

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ITEN       Ord No.       Dy GUC       Supply A'ty         - Plston -       -       -       1       1       Remark         2       Operating platon. complete       534000       -       -       1       1         2       Fax. bolt for upp. part of plater       534127       -       60       -       50         3       Stopper plate       534128       -       36       -       36         3       Stopper plate       534138       -       12       -       12         3       Stopper plate       K374138       -       12       -       12         3       Beiston ring (ar cocling insert       K34410       12       12       12       24         6       Grooved piston ring for       -				<u> </u>			<u>No.4</u>
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	* = = 1						
1       Operating piston, complete       K34000       -       -       1       1         2       Ex. bolt for upp. part of piston       K34127       -       60       -       36         3       Stopper plate       K34128       -       36       -       36         4       Stopper plate       K34136       -       12       -       12         5       Spring for payl       K34401       12       12       12       24         6       Orring for cooling insert       K34402       24       24       36         9       Grooved platon ring for       -       -       -       -       -         9       Grooved platon ring for       -       -       -       -       -         1       Fuel cam for camshaft       K42160       -       -       -       -         2       Camshaft bearing shelt halves       K4260       -       2       16       18         3       Camshaft bearing halves for       starting air       -       -       -       -       -         2       Thrust mashaft bearing kalting		<u>Uord No.</u>	<u>by <u>GUC</u></u>	<u> Rehabil</u>	<u>Spare</u>	Total	<u>Remark</u>
2 Ex. bolt for upp. part of piston K34127 - 60 - 60 3 Ex. bolt for piston skirt K34126 - 36 - 36 4 Stopper plate - 12 - 12 5 Spring for part - 12 - 12 5 Spring for part - 12 - 12 6 O-ring for cooling insert - 134144 - 24 - 12 - 24 - 36 6 Piston ring (Lep) - 12 - 12 - 24 9 Grooved piston ring for - 12 - 24 - 24 - 24 9 Grooved piston ring for - 12 - 24 - 24 - 24 - 24 9 Grooved piston ring for - 24 - 24 - 24 - 24 - 24 - 24 - 24 - 2		+			 		
3     Ex. bolt for platon skirt     134128     -     36     -     36       4     Storper plate     K34136     -     12     -     12       5     Spring for pawl     K34136     -     3     -     3       6     Orring for cooling insert     K34144     24     12     24     36       7     Piston ring (are cooling insert     K34404     24     24     24     36       9     Grouved plston ring for     0     K34402     24     24     24     46       9     Gooved plston ring shor     K34410     12     12     12     24     46       9     Grouved plston ring for     - <td></td> <td></td> <td></td> <td></td> <td>+ = = = = = =</td> <td><u> </u></td> <td></td>					+ = = = = = =	<u> </u>	
4     Stopper plate     K34138     -     12     -     12       5     Spring for pawl     K34139     -     3     -     3       6     Dering for pawl     K34144     24     12     24     36       7     Piston ring (top)     K34401     12     12     12     24       8     Grooved piston ring for     -     -     -     -     -       9     Grooved piston ring for     -     -     -     -     -     -       1     fuel can for camshaft     K42150     -							
5     Spring for pawl     KJ4136     -     3     -     3       6     0-ring for cooling insert     KJ4144     24     12     24     36       7     Pision ring (2nd, 3rd)     KJ4401     12     12     12     24     36       7     0-camshaft     KJ4401     12     12     12     24     46       9     0-coved piston ring for operating piston     KJ4410     12     12     12     24     46       -     camshaft     -				1-36	+		
6     0-ring for cooling insert     K34401     24     12     24     36       7     Piston ring (top)     K34401     12     12     12     24       8     Grooved piston ring for     -     -     -     -     -       9     Grooved piston ring for     -     -     -     -     -     -       1     Fuel cam for camshaft     K42150     -     -     -     -     -       2     Valve cam for camshaft     K42160     -     -     -     -     -       3     Canshaft bearing ring halves for     -				$\frac{12}{1-\frac{12}{2}}$	<b>-</b> +		
7. Piston ring (100)     K34401     12     12     12     24       8. Piston ring (2nd. 3rd)     K34402     24     24     24     48       9. Grooved piston ring for operating piston     K34410     12     12     12     24     48       - Camshaft     -							
9     Grooved piston ring for operating piston     K34410     12     12     12     24       - Camshaft     Camshaft     K42150     -     -     -     -       1     Fuel cam for camshaft     K42150     -     -     -     -       2     Valve cam for camshaft     K42160     -     -     -     -     -       3     Camshaft bearing shell halves     K42601     -     2     16     18       4     Lapped bearing ring halves for camshaft lapped bearing     K42601     -     2     16     18       -     Starting air distributor     K43100     -     -     -     -     -       1     Starting air distributor     K43100     2     1     1     2       -     Starting air distributing disc K43169     K43170     2     1     2     1     2       -     -     Automatic starting-air stop valve, complete     K43500     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -	6 U-ring for cooling insert						
9     Grooved piston ring for operating piston     K34410     12     12     12     24       - Camshaft     Camshaft     K42150     -     -     -     -       1     Fuel cam for camshaft     K42150     -     -     -     -       2     Valve cam for camshaft     K42160     -     -     -     -     -       3     Camshaft bearing shell halves     K42601     -     2     16     18       4     Lapped bearing ring halves for camshaft lapped bearing     K42601     -     2     16     18       -     Starting air distributor     K43100     -     -     -     -     -       1     Starting air distributor     K43100     2     1     1     2       -     Starting air distributing disc K43169     K43170     2     1     2     1     2       -     -     Automatic starting-air stop valve, complete     K43500     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -	7 Piston ring, (Lop)		14				
operating piston       K34410       12       12       12       12       24         - Camshaft       K42150       -		<u>N34404</u>	4	4		40	
- Camshaft -     K42150     -     -     -       1 Fuel cam for camshaft     K42150     -     -     -     -       2 Valve cam for camshaft     K42150     -     -     -     -     -       3 Camshaft bearing shell halves     K42601     -     2     16     18       4 Lapped bearing shell halves     K42601     -     2     4     6       - starting Air Distributor     -     -     -     -     -       1 Starting Air Distributor     K43100     -     -     -     -       2 Thrust washer for starting air distributor K43161     K43162     1     1     2       4 Thrust washer for distributing dist K43169     K43170     2     1     1     2       - Automatic Starting-Air Stop Valve, complete -     -		124410	10	1.0	1.2	9.4	
1     Fuel cam for camshaft     K42150     -	Operating piston	<u>KJ4410</u>	16	14	14	44	
2     Valve cam for camshaft     K42160     -     -     -     -       3     Camshaft bearing shell halves for camshaft lapped bearing     K42601     -     2     16     18       4     Lapped bearing ring halves for camshaft lapped bearing     K42601     -     2     4     6       -     Starting air distributor     K43100     -     -     -     -     -       1     Starting air distributor     K43100     -     -     -     -     -       2     Thrust washer for starting air distributing distributing disc K43163     K43170     2     1     1     2       4     Thrust washer for distributing disc K43169     K43170     2     1     1     2       -     Automatic starting-Air Stop Valve, complete -     - <td></td> <td>V/0150</td> <td></td> <td>+</td> <td>+</td> <td></td> <td></td>		V/0150		+	+		
3     Camshaft bearing shell halves     K42601     -     2     16     18       4     Lapped bearing ring halves for camshaft lapped bearing     K42611     -     2     4     6       -     Starting Air Distributor     K42611     -     2     4     6       -     Starting air distributor     K43100     -     -     -     -       2     Thrust washer for starting air distributor K43161     K43162     2     1     1     2       3     Bush for housing K43161     K43170     2     1     1     2       4     Thrust washer for distributing disc K43169     K43170     2     1     1     2       -     Automatic starting-Air Stop Valve, complete -     -     -     -     -     -       1     Automatic starting-Air Stop Valve, complete -     -     -     -     -     -       2     Flunger ring for plunger K43516     K43520     -     1     -     1       4     Spring for non-return valve     K43528     -     1     1     2       -     Valve actuating gear, complete     K4410							
4     Lapped bearing ring halves for camshaft lapped bearing     K42611     -     2     4     6       -     Starting Air Distributor     K42611     -     2     4     6       -     Starting air distributor     K43100     -     -     -     -       1     Starting air distributor     K43100     -     -     -     -       2     Thrust washer for starting air disc K43161     K43162     1     1     2       4     Thrust washer for distributing disc K43169     K43170     2     1     1     2       -     Automatic starting-Air Stop Valve, complete -     -     -     -     -     -       1     Automatic starting-air stop valve, complete     K43500     -     -     -     -       2     Punger ring for plunger K43518     K43520     -     1     -     1       3     Spring for starting-air stop valve     K43528     -     1     2     -     2       -     Valve actuating Gear -     -     -     1     2     -     2       2     Guid piston for valve scuating gear			+	+	10	10	
camshaft lapped bearing       K42611       -       2       4       6         - Starting Air Distributor       K43100       -		<u> </u>		4	10		
- Starting Air Distributor     -     -     -     -       1 Starting air distributor     K43100     -     -     -     -       2 Thrust washer for starting air distributor K43161     K43162     1     2     1     2       3 Bush for housing K43161     K43170     2     1     1     2       4 Thrust washer for distributing disc K43168     K43170     2     1     2       - Automatic Starting-Air Stop Valve, complete -     -     -     -       1 Automatic starting-air stop     K43500     -     -     -       2 Plunger ring for plunger K43513     K43521     3     3     6       3 Spring for non-return valve K43515     K43520     -     1     1       4 Spring for plunger K43516     K43520     -     1     1       5 Sealing for starting-air stop valve     K43528     -     1     2       - Valve Actuating Gear -     -     -     1     2       2 Guid piston for valve scuating gear     K44102     -     2     2       3 Roller for valve actuating gear     K44104     -     2     2       4 Bush fo		VA0011		9		G	
1     Starting air distributor     K43100     - <t< td=""><td></td><td><u> </u></td><td></td><td><u> </u></td><td>4</td><td>0</td><td></td></t<>		<u> </u>		<u> </u>	4	0	
1     Starting air distributor     K43100     - <t< td=""><td>- Stanting Ain Digtaihuton -</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	- Stanting Ain Digtaihuton -						
2     Thrust washer for starting air distributor K43161     K43162     1     1     2       3     Bush for housing K43161     K43170     2     1     1     2       4     Thrust washer for distributing disc K43169     K43170     2     1     1     2       -     Automatic Starting-Air Stop Valve, complete -     1     1     2     1     2       -     Automatic starting-air stop valve, complete     K43500     -     -     -     -       1     Automatic starting-air stop valve, complete     K43500     -     -     -     -       2     Plunger ring for plunger K43513     K43520     -     1     -     1       3     Spring for plunger K43516     K43520     -     1     -     1       4     Spring for starting-air stop valve     K43528     -     1     2     -       -     Valve actuating gear, complete     K44100     -     1     -     1       2     Guid piston for valve sctuating gear     K44102     -     2     -     2       3     Roller for valve actuating gear     K44104 <td></td> <td>V/2100</td> <td>+</td> <td>+</td> <td>• ·</td> <td></td> <td></td>		V/2100	+	+	• ·		
distributor K43161     K43162     2     1     1     2       3     Bush for housing K43161     K43170     2     1     1     2       4     Thrust washer for distributing disc K43168     K43170     2     1     1     2       -     Automatic Starting-Air Stop Valve, complete -     -     -     -     -     -       1     Automatic starting-air stop valve, complete -     -     -     -     -     -       2     Plunger ring for plunger K43513     K43500     -     -     -     -       3     Spring for non-return valve K43513     K43520     -     1     -     1       4     Spring for plunger K43516     K43520     -     1     -     1       5     Sealing for starting-air stop valve     K43528     -     1     1     2       -     Valve Actuating Gear -     -     -     -     1     2     2       2     Guid piston for valve sctuating gear     K44100     -     1     2     2       3     Roller for valve actuating gear     K44104     -     2		1 49100	+	+	<u>+</u>		
4     Thrust washer for distributing disc K43169     K43170     2     1     1     2       -     Automatic Starting-Air Stop Valve, complete -     .     .     .     .     .       1     Automatic starting-air stop valve, complete     K43500     -     -     -     .       2     Plunger ring for plunger K43513     K43521     3     3     6     .       3     Spring for non-return valve K43515     K43510     -     1     -     1       4     Spring for plunger K43516     K43520     -     1     -     1       5     Sealing for starting-air stop valve     K43528     -     1     2       -     Valve actuating Gear     .     .     1     2       2     Guid piston for valve sctuating gear     K44102     -     2     2       3     Roller for valve actuating gear     K44104     -     2     -     2       4     Bush for rollers K44103 and K44104     K44107     24     -     24     -       5     Thrust washer for roller K44104     K44108     48     12     -     <		VA2162	9	1	1	2	
4     Thrust washer for distributing disc K43169     K43170     2     1     1     2       -     Automatic Starting-Air Stop Valve, complete -     .     .     .     .     .       1     Automatic starting-air stop valve, complete     K43500     -     -     -     .       2     Plunger ring for plunger K43513     K43521     3     3     6     .       3     Spring for non-return valve K43515     K43510     -     1     -     1       4     Spring for plunger K43516     K43520     -     1     -     1       5     Sealing for starting-air stop valve     K43528     -     1     2       -     Valve actuating Gear     .     .     1     2       2     Guid piston for valve sctuating gear     K44102     -     2     2       3     Roller for valve actuating gear     K44104     -     2     -     2       4     Bush for rollers K44103 and K44104     K44107     24     -     24     -       5     Thrust washer for roller K44104     K44108     48     12     -     <		KA9170	4	∲~- <u>-</u>	+		
disc K43169     K43170     2     1     1     2       - Automatic Starting-Air Stop Valve, complete -     -     -     -     -       1 Automatic starting-air stop valve, complete     -     -     -     -       2 Plunger ring for plunger K43513     K43500     -     -     -     -       2 Plunger ring for plunger K43513     K43521     3     3     6     -     -       3 Spring for non-return valve K43516     K43510     -     1     -     1       4 Spring for starting-air stop valve     K43528     -     1     2     -       - Valve Actuating Gear -     -     -     1     2     2     2       - Valve actuating gear, complete     K44100     -     1     -     1     2       2 Guid piston for valve sctuating gear K44103     K44104     -     2     -     2     2     2       3 Roller for valve actuating gear for roller K44104     K44107     24     -     24     -     24       6 Spring for valve actuating gear for K44103     K44104     -     2     -     2     -     2     -		<u></u>		+t			
- Automatic Starting-Air Stop Valve, complete -     -     -       1 Automatic starting-air stop valve, complete     K43500 -     -     -       2 Plunger ring for plunger K43513     K43521 3     3     3     6       3 Spring for non-return valve K43515     K43520 -     1     -     1       4 Spring for plunger K43516     K43520 -     1     -     1       5 Sealing for starting-air stop valve     K43528 -     1     1     2       - Valve Actuating Gear -     -     -     1     2       2 Guid piston for valve sctuating gear mean mathing gear for valve sctuating gear mathing gear for valve sctuating gear mathing gear for valve actuating gear for valve sctuating gear for valve actuating for valve actuating for valve actuating for for valve actuating gear for to for valve actuating for to valve actuating for for for valve for valve for for valve for valve for for valve for	· · · · · · · · · · · · · · · · · · ·	KA3170	9	1	1	2	
1     Automatic starting-air stop valve, complete     K43500     -     1     -     1     1     1     1     1     1	<u>uisc kajios</u>	<u></u>	<u> </u>				
1     Automatic starting-air stop valve, complete     K43500     -     1     -     1     1     1     1     1     1	- Automatic Starting-Air Ston Vs	alve comp	ete -		i		
valve, complete     K43500     -			T	+		<b> </b>	
2     Plunger ring for plunger K43513     K43521     3     3     6       3     Spring for non-return valve K43515     K43510     -     1     -     1       4     Spring for plunger K43516     K43520     -     1     -     1       5     Sealing for starting-air stop valve     K43528     -     1     2       -     Valve Actuating Gear     K43528     -     1     2       -     Valve actuating gear, complete     K44100     -     1     -     1       2     Guid piston for valve sctuating gear     K44102     -     2     2     2       3     Roller for valve actuating gear     K44104     -     2     -     2       4     Bush for rollers K44103     K44104     -     2     -     2       4     Bush for valve actuating gear     K44104     -     2     -     2       5     Thrust washer for roller K44103     K44107     24     -     24     -       6     Spring for valve actuating gear     K44104     -     2     -     2       7 <td></td> <td>K43500</td> <td>-</td> <td><u></u></td> <td>i</td> <td>1 <u>+</u> '</td> <td></td>		K43500	-	<u></u>	i	1 <u>+</u> '	
3     Spring for non-return valve K43515     K43510     -     1     -     1       4     Spring for plunger K43516     K43520     -     1     -     1       5     Sealing for starting-air stop valve     K43528     -     1     2       -     Valve Actuating Gear     K43528     -     1     2       -     Valve Actuating Gear     K43528     -     1     2       -     Valve actuating gear, complete     K44100     -     1     -     1       2     Guid piston for valve sctuating gear     K44102     -     2     -     2       3     Roller for valve actuating gear     K44104     -     2     -     2       4     Bush for rollers K44103     K44107     24     -     24     -     24       5     Thrust washer for roller K44103     K44107     24     -     24     -     24       6     Spring for valve actuating gear     K44104     K44108     48     24     -     24       6     Spring for valve actuating gear     K44111     -     -     6 </td <td>2 Plunger ring for plunger K43513</td> <td></td> <td></td> <td>1</td> <td>i·</td> <td>6</td> <td></td>	2 Plunger ring for plunger K43513			1	i·	6	
K43515     K43510     -     1     -     1       4     Spring for plunger K43516     K43520     -     1     -     1       5     Sealing for starting-air stop valve     K43528     -     1     2       -     Valve Actuating Gear -     -     1     2     -     1     2       -     Valve actuating gear, complete     K44100     -     1     -     1     -     1       2     Guid piston for valve sctuating gear     gear     K44102     -     2     -     2       3     Roller for valve actuating gear     K44104     -     2     -     2       4     Bush for rollers K44103 and K44104     K44107     24     24     -     24       5     Thrust washer for roller K44104     K44108     48     24     -     24       6     Spring for valve actuating gear     K44111     -     2     -     2       7     Spherical pin for valve actuating gear     K44112     4     8     12       8     Valve actuating rod, complete     K44112     4     8		1	+	+	∔	<u>-</u>	
4     Spring for plunger K43516     K43520     -     1     -     1       5     Sealing for starting-air stop valve     K43528     -     1     2       -     Valve Actuating Gear -     K43528     -     1     2       1     Valve actuating gear, complete     K44100     -     1     -     1       2     Guid piston for valve sctuating gear     K44102     -     2     2     2       3     Roller for valve actuating gear     K44104     -     2     -     2       4     Bush for rollers K44103     and K44104     K44107     24     -     24       5     Thrust washer for roller K44104     K44108     48     24     -     24       6     Spring for valve actuating gear     K44111     -     2     -     2       7     Spherical pin for valve actuating gear     K44112     4     8     12       8     Valve actuating rod, complete     K44112     4     8     12       8     Valve actuating rod, complete     K44116     -     -     6       9     Sea		K43510	-	1 1	-	1 1	
5     Sealing for starting-air stop valve     K43528     -     1     2       -     Valve Actuating Gear -     -     1     2       1     Valve actuating gear, complete     K44100     -     1     -     1       2     Guid piston for valve sctuating gear     K44102     -     2     2     2       3     Roller for valve actuating gear     K44104     -     2     -     2       4     Bush for rollers K44103 and K44104     K44107     24     24     -     24       5     Thrust washer for roller K44104     K44108     48     24     -     24       6     Spring for valve actuating gear     K44111     -     2     -     2       7     Spherical pin for valve actuating gear     K44112     4     8     12       8     Valve actuating rod, complete     K44114     -     -     6     6       9     Sealing for K44115     K44129     K44125     -     24     -     24       10     Sealing for K44117 and K44129     K44125     -     24     -     24 <td></td> <td></td> <td>······································</td> <td>+</td> <td>+</td> <td> <u>-</u></td> <td></td>			······································	+	+	<u>-</u>	
stop valve     K43528     -     1     1     2       - Valve Actuating Gear -     - <td>5 Sealing for starting-air</td> <td>-<u></u></td> <td></td> <td>+</td> <td></td> <td> <b>-</b></td> <td></td>	5 Sealing for starting-air	- <u></u>		+		<b>-</b>	
- Valve Actuating Gear -     -     -     -     -     -     -     -     1       1 Valve actuating gear, complete     K44100     -     1     -     1     -     1       2 Guid piston for valve sctuating gear     K44102     -     2     2     2       3 Roller for valve actuating gear     K44104     -     2     -     2       4 Bush for rollers K44103     K44107     24     24     -     24       5 Thrust washer for roller K44104     K44108     48     24     -     24       6 Spring for valve actuating gear     K44111     -     2     -     2       7 Spherical pin for valve actuating gear     K44112     4     8     12       8 Valve actuating rod, complete     K44114     -     -     6     6       9 Sealing for K44115     K44129     K44125     -     24     -     24       10 Sealing for K44117     Att129     K44125     -     24     -     24		K43528		1	1	2	
1     Valve actuating gear, complete     K44100     -     1     -     1       2     Guid piston for valve sctuating gear     K44102     -     2     2       3     Roller for valve actuating gear     K44104     -     2     -     2       4     Bush for rollers K44103     and K44104     K44107     24     -     24       5     Thrust washer for roller K44104     K44108     48     24     -     24       6     Spring for valve actuating gear     K44111     -     2     -     2       7     Spherical pin for valve actuating gear     K44112     4     8     12       8     Valve actuating rod, complete     K44114     -     -     6     6       9     Sealing for K44115     K44125     -     24     -     24       10     Sealing for K44117     K44129     K44125     -     24     -       11     0-ring for K44117     and K44129     K44125     -     24     -     24		1	· · · · · · · · · · · · · · · · · · ·	<u> </u>			
1     Valve actuating gear, complete     K44100     -     1     -     1       2     Guid piston for valve sctuating gear     K44102     -     2     2       3     Roller for valve actuating gear     K44104     -     2     -     2       4     Bush for rollers K44103     and K44104     K44107     24     -     24       5     Thrust washer for roller K44104     K44108     48     24     -     24       6     Spring for valve actuating gear     K44111     -     2     -     2       7     Spherical pin for valve actuating gear     K44112     4     8     12       8     Valve actuating rod, complete     K44114     -     -     6     6       9     Sealing for K44115     K44125     -     24     -     24       10     Sealing for K44117     K44129     K44125     -     24     -       11     0-ring for K44117     and K44129     K44125     -     24     -     24	- Valve Actuating Gear -				1		
2     Guid piston for valve sctuating gear     K44102     -     2     2       3     Roller for valve actuating gear     K44104     -     2     -     2       4     Bush for rollers K44103     and K44104     K44107     24     24     -     24       5     Thrust washer for roller K44104     K44108     48     24     -     24       6     Spring for valve actuating gear     K44111     -     2     -     2       7     Spherical pin for valve actuating gear     K44112     4     8     12       8     Valve actuating gear     K44114     -     -     6     6       9     Sealing for K44115     K44125     -     24     -     24       10     Sealing for K44117     & K44129     K44125     -     24     -     24       11     0-ring for K44117     and K44129     K44125     -     24     -     24		K44100		1-1		1	
gear     K44102     -     2     2       3 Roller for valve actuating gear     K44104     -     2     -     2       4 Bush for rollers K44103 and K44104     K44107     24     24     -     24       5 Thrust washer for roller K44104     K44108     48     24     -     24       6 Spring for valve actuating gear     K44111     -     2     -     2       7 Spherical pin for valve actuating gear     K44112     4     8     12       8 Valve actuating rod, complete     K44114     -     -     6     6       9 Sealing for K44115     K44129     K44125     -     24     -     24       10 Sealing for K44117     & K44129     K44125     -     24     -     24       11 0-ring for K44117     and K44129     K44125     -     48     -     48	2 Guid piston for valve sctuating		+	+	+		
4     Bush for rollers K44103 and K44104     K44107     24     -     24       5     Thrust washer for roller K44104     K44108     48     24     -     24       6     Spring for valve actuating gear     K44101     -     2     -     2       7     Spherical pin for valve actuating gear     K44112     4     8     12       8     Valve actuating rod, complete     K44114     -     -     6     6       9     Sealing for K44115     K44125     -     24     12     12     24       10     Sealing for K44117     & K44129     K44125     -     24     -     24       11     0-ring for K44117     and K44129     K44125     -     48     -     48		K44102	-	2	}	2	1
4     Bush for rollers K44103 and K44104     K44107     24     -     24       5     Thrust washer for roller K44104     K44108     48     24     -     24       6     Spring for valve actuating gear     K44101     -     2     -     2       7     Spherical pin for valve actuating gear     K44112     4     8     12       8     Valve actuating rod, complete     K44114     -     -     6     6       9     Sealing for K44115     K44125     -     24     12     12     24       10     Sealing for K44117     & K44129     K44125     -     24     -     24       11     0-ring for K44117     and K44129     K44125     -     48     -     48	3 Roller for valve actuating gear			2		2	
and K44104     K44107     24     24     -     24       5     Thrust washer for roller K44104     K44108     48     24     -     24       6     Spring for valve actuating gear     K44101     -     2     -     2       7     Spherical pin for valve actuating gear     K44112     4     8     12       8     Valve actuating rod, complete     K44114     -     -     6     6       9     Sealing for K44115     K44125     -     24     12     12     24       10     Sealing for K44117     & K44129     K44125     -     24     -     24       11     0-ring for K44117     and K44129     K44125     -     48     -     48		•• •• •• •• •• •• •• •• •• ••		1	+		
5     Thrust washer for roller K44104     K44108     48     24     -     24       6     Spring for valve actuating gear     K44111     -     2     -     2       7     Spherical pin for valve     K44112     4     8     12       8     Valve actuating rod, complete     K44114     -     -     6     6       9     Sealing for K44115     K44125     -     24     12     12     24       10     Sealing for K44117     & K44129     K44125     -     24     -     24       11     0-ring for K44117     and K44129     K44125     -     48     -     48		K44107	24	24	-	24	
6     Spring for valve actuating gear     K44111     -     2     -     2       7     Spherical pin for valve actuating gear     K44112     4     8     12       8     Valve actuating rod, complete     K44114     -     -     6     6       9     Sealing for K44115     K44116     24     12     12     24       10     Sealing for K44117     & K44129     K44125     -     24     -     24       11     0-ring for K44117     and K44129     K44125     -     48     -     48							
7     Spherical pin for valve actuating gear     K44112     4     8     12       8     Valve actuating rod, complete     K44114     -     -     6     6       9     Sealing for K44115     K44116     24     12     12     24       10     Sealing for K44117     & K44129     K44125     -     24     -     24       11     0-ring for K44117     and K44129     K44125     -     48     -     48						[-2]	
actuating gear     K44112     4     8     12       8     Valve actuating rod, complete     K44114     -     -     6     6       9     Sealing for K44115     K44116     24     12     12     24       10     Sealing for K44117 & K44129     K44125     -     24     -     24       11     0-ring for K44117 and K44129     K44125     -     48     -     48		1	+	1	+	1	
9       Sealing for K44115       K44116       24       12       12       24         10       Sealing for K44117 & K44129       K44125       -       24       -       24         11       0-ring for K44117 and K44129       K44125       -       48       -       48	• • • • • • • • • • • • • • • •	K44112	4	4	8	12	
9       Sealing for K44115       K44116       24       12       12       24         10       Sealing for K44117 & K44129       K44125       -       24       -       24         11       0-ring for K44117 and K44129       K44125       -       48       -       48	8 Valve actuating rod, complete		<b> </b>	T	<u>i</u> 6	6	
10 Sealing for K44117 & K44129 K44125 - 24 - 24 11 O-ring for K44117 and K44129 K44125 - 48 - 48	9 Sealing for K44115		24	12	12	24	
11 O-ring for K44117 and K44129 K44125 - 48 - 48				24	+	24	
12 O-ring for boushing K44101 K44126 - 12 - 12					+		
	12 O-ring for boushing K44101						

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T (0 73)	1 0 1 1	Q'ty rqu	<u>Supr</u>	<u>ly Q't</u>	y	Dennela
ITEM	Cord No.	by <u>GUC</u>	<u>lkenap)</u>	<u>Spare</u>		<u>Remark</u>
- Regulating Linkage -						
1 Bush for levers K45025, K45027	·]·		+	+		
and support K45029	K45026	4	4	4	8	1
2 Self-locking nut for lever	•		+	·•		
K45025	K45042	24	24	24	48	
<u>3 Pin for lever K45025</u>	K45073	12	12	12	24	
- Spring Rod -			+	! +	4	
1 Articulat. piece for spring rod	<u>K45103</u>	2	2	2	4	
- Regulating Shaft - 1 Articulation piece for rod			+	+		
K45051 and $K45052$	K45054	4	4	4	8	
2 Treaded pin for K45001, K45051	<u>1110001</u>		<sup>1</sup>	, i,		
and K45052	K45063	6	6	6	12	
3 Self-locking nut for stud K45070	K45065	1	6	6	12	
4 Self-locking bolt for threaded			1			
ping K45063 and K45064	<u>K45067</u>	6	6	į <u>6</u>	12	
5 Bush for lever K45057	K45069	1	2	 	2	
	. a					
- Overspeed Safety Cut-out Devic			+	 +		
1 Cover for housing K46101 2 Fel ring for cylinder K46159	<u>K46140</u>	11	<u></u>	↓	1	
2 Fel ring for cylinder K46159 and cover K46182	K46160	2	9	2	4	
3 Sealing for cover K46161	K46162	<u></u>	2	i	4	·
4 Piston ring for piston K46163	K46164	1 2	+2	1 2	4	
5 Sealing for cover K46178	K46179	† <u>-</u>	+ <u>-</u>	2	2	
	· • · · · · · · · · · · · · · · · · · ·					
- Overspeed Safety Cut-out Devic	<u>e -</u>		<u> </u>	   +		
1 Sealing for locking screw K46192	K46206	2	2	i -	2	
	1					
<u> </u>			+			
1 3/2-way valve, complete	K47209 K47210		1	+		
2 3/2-way valve, complete 3 Limit switch	K47211	+		+	2	
- Transmitter for Remote Tachome			<u>1</u>		<b>_</b>	·• •
1 Sensor for remote tachometer	H49601		+	† <u>-</u>	2	
- Load Control -	<u> </u>		·		L	
1 Limiting sensor for load control	H49905		1	1	2	
- Governor Device -		~~~~~~~	<b></b>			
1 Woodward governor	K51101		1	i <b>-</b> +	1	
2 Bush for housing K51123	K51123	6	6	<u>-</u> +	6	
3 Sealing for housing K51138	K51139	1	2		2	
- Fuel Injection Pump -		T		T	···	
1 Fuel injection pump, complete 2 Pin for fuel injection pump	K55000 K55012		+	$\frac{1}{6}$	6	
2 Pin for fuel injection pump 3 Bush for roller K55028	K55012	12	6	12	18	
4 Spring forfuel injection pump	K55018		+	+ <b>.</b>	1-1	
5 Thrust plate for roller K55028	K55030	24	1-12	12	24	
6 Packing for retain. screw K55033		+		+	6	
7 Grooved packing for screw K55021	K55034		6			
8 O-ring foR housing K55001	K55035	24	12	24	36	
9 O-ring for pump cover K55004	<u>K55036</u>	12	6	24	30	
10 0-ring for K55050	<u>K55037</u>	24	6	24	30	
11 Retaining ring for pin K55015	K55040	12	6	6	12	
12 Piston and cylinder for fuel	1 	10		e	e	
injection pump	K55050	12	<u> </u>	6	6	I

XI-5

ERNENCY - DALASI

CASH FLOW STATEMENT FOR FY 1987/88 -

ACTUML

36 11 257 259 010 010 010 010 4,858 - -508 20,052 1,235 1,900 6,028 45,246 8,455 8 12, 302 134 36,791 33 990 5,804 4,953 3,785 901 92 901 92 41 216 689 4,370 147 460 5.192 366 5,620 172 JUNE 4,466 58 478 2,124 1,105 4,432 5,504 4,601 829 2,477 í エ 1585*n*584 2,384 1,498 (498) 4,910 4,432 1,882 255 257 533 88 560 1,020 1,364 A PRTI ١ 1 3, 591 (2, 088) 6, 998 4, 910 7711 22 5,037 223 2,245 482 3,974 NA RCH 1,503 533 t L 3**,**205 179 \*\*\*\*\*\* 3,763 532 2,194 7,031 6,998 358 3,220 543 7 824 1 2,428 1,049 50 S 330 903 6,128 7,031 2,262 188 7 4,331 8228 G 357 158 3,098 1,233 JAN. 1 1 3,100 895 209 35 11,244 423 2,157 104 595500 199 (1,309) 6,567 6,128 3,141 1,103 DEC I, ſ (1, 393) 7,960 6,567 2,988 3,280 266 180 222 225 740 2,377 -1 3.705 968 (425) ¢ 1 Уğ 1,567 (2,195) 10,155 7,960 2,313 230 230 181 293 201515158 80154588 2,732 1,587 474 3,360 (628) 0 500 ÷ • 390 2,290 447 3,094 -164 193 8 284 9,871 10,155 322 Ą 292 637 2,802 SUPT I, 2,514 25 2,730 - <sup>-</sup> <sup>3</sup> - <sup>-</sup> <sup>3</sup> 367 117 630 9,241 9,871 1,983 AUG 747 28 28 12 28 12 2,436 410 4 807 2,818 8 375 9 866 9 241 418 2,400 אזויא ŀ CASH SURPLUS OVEN REVENUE EXP FOREIGN SUPPLIERS CANE/TELEX/TEL. HATERLALS IGAS/LUD. OIL LOCAL SUPILIERS NET CASH INFLOW (OUTFLOW) MAJ NTEMANCE STATI UNERY ALL/OWANCES OPENING CASH BALANCE TOTAL CASH RECEIVED OTHER INCOME SALARUES /WAGES INSURANCE CAPITAL EXPENDITURE TOTAL CASH PAID OUT FINANCIAL CHARGES TRAVEL SEVENAGE ST ISO GAO AUTIT OTHER LEGAL PRUVATE CASH PAYMENTS : CASH NECEIPTS GOVT. EXTENSES : SALES I XI-6

						No.6
ITEM	Cord No.	Q'ty rqu by GUC	Sup Rehabi	ply Q't	y Total	Remark
	<u>;0010 NU.</u>	04 000	Renaul	topare.	10141	<u>ncmain</u>
- Arrangement of Turbocharger -				+		
1 Compensator	H66128		2	2	4	
2 Sealing for H66128	166129		$\frac{2}{2}$	$\frac{2}{2}$	4	
3 Sealing for N66115	<u>H66130</u>		2	1 - 2	4	·
4 Sealing for K66106	<u>H66131</u>		2	4	4	
- Air Delivery Pipe -	+	+		+		
1 Hose sealing for the air delivery pipe	K67029	12	12	12	24	
2 Spiral-asbestose packing for	1	1 <u>4</u>	4	<u>i</u> <u>-</u>		
flange K67004	K67030	24	12	12	24	
3 Spiral-asbestose packing for	1			+		
flange K67004	K67031	-	1	1	2	Í
4 Sealing for ring K67012	K67032		1	1 1	$\frac{2}{2}$	
				- <del> </del>		
- Cylinder Lubricating Pump Devi	i <u>ce</u> -			i +		
1 Articulation piece for flexible	<u>K72142</u>	2	2		2	
Cultudes Tubetesting Oil Di	Dillor		1			
- Cylinder Lubricating Oil Fine	<u>Fliter</u> -			·		
1 Fine filter for cylinder lubricating	K72301		1	-	1	
Tubricating	<u> </u>		<u> </u>		<u>1</u>	
- Exhaust Piping -	i					
1 Exhaust pipe for cylinder 2L	K81105		1	·+	1	
2 Spiral-asbestos gasket for	+ <u></u>	+		+		
flange K81127	K81130	12	12	12	24	
3 Compensator for exhaust pipe	K81137		8	4	12	
4 Compensator for exhaust pipe	K81138	-	4	2	6	
	}	1	· .			
- Instrument Panel -	i +					
1 Instrument panel, complete	192100		1	 -	1	
	ŀ					
- Exhaust Turbocharger -	20000	+	1	+	1	
1 Rotor complete 2 Nozzle	56000		+	+	••••	
		+	<u>1</u>		3	· · · ·
3 Bearing complete(B/T) 32 4 Diffuser	2100/34100 79000		<u> </u>	2	1	
	1		<u>+</u>	- <del> </del>		
- L.O. Pump -	1	-				
1 Driving shaft complete set	++		1-1	+	1	
- <u>Maker's Standard Spare set</u> fo	<u>pr -</u>		L	i +		
<u>1 A/C</u>	 		<u> </u>	<u> </u>	1	
2 Exhaust gas turbocharger 3 oil mist detector	+	+		+	<u> </u>	
3 oil mist detector	·			+		
4 Exhaust gas temperature	+			+	<u> </u>	
5 Tachometer	+		+ <mark>!</mark>	+		
6 Thermostat		+	<u>∔</u>	+	·	
7 L.O. pump 8 Standard bolts/nuts/washers	+	+		+	<u>-</u>	
9 Standard packings for pipe		+	+	+	1	
10 Woodward governor		+	t <u>i</u>	+	1	
TA TRANSTA GALOLINAL	. <u> </u>	1	L			

PROJECT	TOTAL EXPENDED COST	EXPERDITURE ACTUAL EXPENDED/ TO DATE PHY. PROGRESS	CTUAL EXPENDED/ Phy. Progress	BUDGET FORECAST TOTAL TIME TABLE YEAR. EXPEND.	SOLACE	RENÁTNING Finance
B/F 11. DFFICE FURNTURE FOR COMMERCIAL SECT.	/F. 2,052,810.00 525,813.35 RE T, 38,210,00	525,813.35				
12. AIR CONDITIONER For commercial sect.	64,000,00					
13. TYPEMRITER ND.4 AT D6,000	24,000.00					
14. RESTRUCT. OF 15t AND 3rd FLODR H/0	132,000.00	295,953.43				
DNE TRANSPORT L/YEAR BUDGET		102,500.00			BUC	
TOTAL	2,311,020:00	924,266.78				

XI-8

				<b></b>			No.7
7 7 7 7 1			Q'ty rqu	( <u>Supr</u>	ly Q't	y	
ITEM	ifier (DDG No 2001CD)	Cord No.	by GUC	<u>këŭaôi'</u>	Spare	<u>rotal</u>	<u>Remark</u>
	rifier Trap(DRG.No.39216B) -	3051017			↓ ↓		· · · · · · · · · · · · · · · ·
	voil connection pipe	3051017			•		
	t packing	3051002		9	9	18	
	nometer	3051013		1	1	2	
5 0-ri		3024012		3	1	6	
6 0-ri		3024018		1	2	3	+
7 Flow	indicator	4051004	2	1	2	3	
8 Press	sure gauge	3051015	2	1	1	2	
9 Sheet	packing	3051003		4	4	8	
<u>10 0-ri</u>		4011001	4	1	<u>i 3</u>	4	
	/ oil inlet pipe	4051001	2	<u> </u>	<u> </u>	2	
	ied oil outlet pipe	4051006	2	<u> </u>	<u>+</u>		
	routlet pipe	4051003 4051002	$\frac{\frac{2}{2}}{\frac{2}{2}}$			$\frac{2}{2}$	
	ing water inlet flange	3024007				2	
16 0-rin		3024016		<u>-</u>	ii	2	
	fier Frame(DRG.No.302160D)	) -	L	L <sup>4</sup>	ė	L	
	sauge glass	521111		1	2	3	
	t packing	521112		2	4	6	
	g 602¢	4011008	2	1	2	3	
4 0-rir		2011026		1	2	3	
	packing	4011012		1	1	2	
6 Sheet	packing	4011004			į	2	
		İ		L	i		
	Assembly(DRG.No.392159D)	-	r	r	·	· · · · · · · · · · · ·	
	ng for gravity disc	4081003	$\frac{5}{2}$	<u> </u>	5	6	
2 Top o 3 Disc		4081022 4081023		106		110	
3 Disc 4 Disc		4081023		6	4	6	
5 0 - rir		4081024	$\frac{2}{5}$		5	6	
	et cap screw(M14 x 25)	1001041	48	6	32	38	
	seal ring	4081036	5	1-1	5	6	
	ng 325¢	4081031	9	1	5	6	
	ng 345¢	4081021	15	3	15	18	
	1g 336¢	4081033	5	1	5	<u>6</u> 3	
11 0-rin		4081033		1	2	3	
12 0-rin		4081019	5		5	6	
	screw with nozzle	2081031	66	2	4	6	
	packing	4016011	$\frac{3}{2}$	<u>.</u>	5	<u>6</u>	
15 0-rin	1 <u>8</u>	4016005	5		5	6	
16 O-rin 17 Bolt	ig 115¢ M5 x 8	4010010	<u>0</u>	6 <u>1</u>	12	18	h/
	ied washer	4016002		6	$12^{-12}_{12}$	18	
- Vei	rtical Shaft(DRG.No.392163A)	) -	L	<u> </u>		10	
1 Sheel	packing	4013004		1	1-1-1	2	
2 0-ri		4013001		1	Ž	$\frac{2}{3}$	
3 Washe		4013014		1	$\frac{2}{12}$		
4 Sprin	ng for upper bearing	4013010		6	12	18	
5 Ball	bearing	#6310		1	$\frac{2}{2}$	3	
6 U-tyr	e packing	4013005		1	2	$\frac{\frac{3}{2}}{\frac{2}{3}}$	
	packing	4014009			1	2	
8 Sheet	t packing	4014010		<u>1</u>	_ <u> </u>	<u>2</u>	
	bearing	#6306C3			$\frac{2}{2}$	3	
	lau contact ball bearing	#7306A			<u>2</u>	<u></u> J	
	ng for lower bearing	4014006		├ <i>──<sup>↓</sup></i> ───	2	3	
12 Washe	; [`	0113010		1	<u> </u>	J	J

۲۰۰۰ - ۲۰۰۰		Q'ty rqu	u Sup	ply Q't	y	<u>No.8</u>
ITEM	Cord No.	by GUC	Rehabi	lSpare	Total	Remar
	· · ·					
- Horizontal Shaft(DRG.No.39216						İ
Sheet packing	4015006		1	1	2	
2 Oil seal	SB254511	<u> 4</u>	2	4	6	
Sheet packing	2015006		<u> </u>		$\frac{2}{3}$	
l Oil seal 5 Ball bearing	SB456812	$\frac{2}{2}$	+ <u>-</u>	2	6	+
j Barr Dearring	<u>#6307</u> 0715012			4-4		+
7 50Hz spiral gear	4036002		+	· +	$\frac{6}{2}$	
Washer	3013013		+	2		+
Friction block	3015002	+	1-6	12	18	+
) Brack lining	3012004	+	1	2		+
Counter sunk head screw M5 x L2		2	1-1	8	12	+
Brake spring	4012001		t	2		+
······································					<u>~</u>	
- Gear Pump(DRG.No.403817A) -						
Bush	3041041	2	2	4	6	1
2 Bush	3041042	$\frac{2}{2}$	2	4	6	
Packing	4041001		1	1	2	
Sheet packing	3041016	2	2	2	$\frac{6}{2}$	
Spring for releif vale	3041014		1	2	3	
6 Oil seal	SC203508	4	2	4	6	
Safety joint	4041018	I	1	2	3	
3 Sheet packing	4052003		2	2	4	
) Sheet packing	3052002	-	2	2	4	
<u>- Auto. Control Panel -</u>			+	; ;		ļ
Bulb for signal lamp	E12.1BV.2V		36	36	72	
2 Grobe for signal lamp	-+		3		6	
Aux. relay	SRC50-2F	2	+		2	
Aux. relay	IIII54P	10	1	7	14	
i Mag. contact	SPC3631-5-	2		· +	2 6	
Timing relay	H3BA H2A 12H	6	2	4	2	
Timing relay	<u>114A 141</u>		<u> </u>	1	4	
- Electric Heater for L.O.puri	fion(DDC No.	NU-8055	1)			
Heater element (2.67kW)	No.5	T	۲ <u></u>	· +	1	
Thermometer	No.12	4	2	4	6	
Pressure gauge	No.15	+ <u>'</u>	+ <u>-</u>	1	2	+
Packing	No.16		+	· +	2	
- L.O. Strainer -						
(150-2PU-W30LE-PGW-X/QT)		1	ł	1		1
	A- 9	+	1-2	2	4	+
2 O-ring	A-10		$\frac{2}{8}$	4	<u>-4</u> 6	+
Packing	<u>A-24</u>	16	1	40	48	+
Coil spring	A-29		4	4	8	1
Packing	A-31		4	8	12	
Packing	A-33	T	12	12	48 8 12 24	1
Packing	A-36	T	4	4	8	Į – – – – – – – – – – – – – – – – – – –
Packing	A-60	~	4	4	8	[
Packing	A-64	T	2	2	4	
Notch wire element's assembly	B−1~3	T	T	·	[	[
set	<u> </u>	4	4	<u>-</u>	4	
Packing	B-3	8	4	20	24	
Packing	C-9	8	4	20	24	

			Q'ty rqu	L Supr	oly Q't	v	<u>No.9</u>
ITEM		Cord No.	by GUC	Rehabil	Spare	y Total	Remar
- F.O. Strainer -			153 000		1	10004	I COMOL
(65-PGA/R5-W30LE/1	PG / W Y / POT )				1		
1 0-ring		<u> </u>	+	+	2		
2 Packing		<u>A-8</u>	·	+	1	2	
		A-20		+	20	24	
<u>3 Packing</u> 4 Spring				+		4	
		<u>A-23</u>		22	2	<u>4</u>	
		<u>A-24</u>		$\frac{2}{2}$	4		
<u>6 Packing</u>		<u>A-27</u>		4	2	4	
7 Packing		A-29		4	4	8	
8 Packing		A-30		2	2	44	
9 Packing		A-34		11		2	
0 Packing		<u>A-37</u>		2	2	4	
1 Notch wire element	's assembly	$B-1 \sim 7$	2	2	-	2	
2 Packing		B-7	4	4	10	14	
- Cylinder Oil Str	ainer -	······································					
(50-P-6269E/SC-N20				Î.	1		
1 Packing		A- 2	2 2	1 1 1	5	6	
2 Packing		1	$-\frac{2}{2}$		2	3	
3 Spring		1		+	11	2	
4 Notch wire element	'a secondly	$B - 1 \sim 4$	· · · · · · · · · · · · · · · · · · ·	· • • • • • • • • • • • • • • • • • • •	•		
	s assembly	$1 - 1 \sim 4$ $1 - 1 \sim 6$		1	1	2	
set			2 2	+		•	
5 Packing		<u>B-4</u>	2	ļ	5	6	
6 Packing		<u> </u>	2	<u> </u>	5	6	
- SAV-30 Air Compr		05-0011)				r	
1 Air compressor com	plete	i	11	1	i <u>-</u>	1	
2 Oil seal	· · · · · · · · · · · · · · · · · · ·	5		-	4	4	
3 Low pressure pisto	n ring	11			12	12	
4 High pressure pist	on ring	12			16	16	
5 piston pin metal		14			2	2	
6 Crank pin metal		16		······································	2	2	
7 Bolt for connectin	grod	117		+	4	4	
8 Low pressure valve		1 18		+	2		
9 Low pressure sucti		18-1	+		2	2	
	UII VAIVE	18-2		+	24	24	
0 Spring for above			+			44	
<u>l Low pressure deliv</u>	ery valve	18-5			2		
<u>2 Spring for above</u>	**	18-6			2	2	
<u>3 High pressure suct</u>	ion valve	19		<b>.</b>	2	2	
4 Spring for above		20			2	2	
5 High pressure deli	very valve	23			2 2 2	2	+
6 Spring for above		24				2	
7 V-belt for fan dri	ve	29			2	2	
8 Safety valve for 1	ow pressurer	1	T			2	
9 Safety valve for h	igh pressurer	1 38			2	2	
0 Air filter	ton prosbaior	1-39	+	4	4	8	
- Starting Air Rec	olyon -			1			······
		11-23754 5	T	T	3	4	
1 305x405 Manhole pa 2 Safety valve sprin	Cn 1115			+			
	B Dur ZDD	SLR-1540 1	<u>4</u> 1525	L	ił	4	
- CYL.C.W.Pump/Air	U.W. PUMP(DRU	<u>1.NO. US-1</u>		T			
<u>1 0-ring</u>		050	2	2	2		
2 Gasket		128	+	$\frac{2}{2}$	$\frac{2}{2}$	4	
<u>3 Flinger</u>		1 170		2		4	
4 Ball bearing #6309		201	2	4	8	12	
5 Ball bearing #6409		202	$\frac{2}{2}$	2	4	6	
6 Coupling ring		304	T		4	6	
7 Grand packing		1	2	2	4	6	
8 Packing ring		510	+	2	2	4	
			1 -	2	2	- 1	

.

					<b></b>	No.10
ITEM	Cord No.	Q'ty rqu by GUC	Rehabil	ly Q't		Remark
11.60	jouru NO.	<u>Inà anc</u>	Reliauri	opare	liucai	<u>newalk</u>
- Fuel vale C.W. Pump (DRG.No. I	)S-1385) -					
1 O-ring	050	2		1	2	
	170		1	1	2 2 6	
3 Ball bearing #630622 4 Grand packing	201,202	4	2	4	<u>6</u> 3	
4 Grand packing 5 Coupling ring	<u>501</u> 304	22		2	<u> </u>	
	<u>i 304</u>		1	4	<u> </u>	
- Fresh Water Make-up Pump (DRG.	No. DS-11	18) ~				
1 O-ring	050	2	1	1	$\frac{2}{2}$	
2 Flinger	170		1	1	2	
3 Ball bearing #630622	201,202	4	2	4	6	
4 Grand packing	501	2	[[	2	3	
5 Coupling ring 6 Sleeve gasket	304	· - · · · · · · · · · · · · · · · ·	· ··· - · · · · · · ·		3	
<u>6 Sleeve gasket</u>	128		l	1	2	
- F.O. Supply Pump (DRG.No. DG-1	10262) -					
1 Bearing metal	201	2	4	8	12	·
2 Grand packing	501	7	1	2	3	
3 Side plate	005	2			8	
4 Coupling ring	304		1	2	3	
- F.O. Drain Pump (DRG.No.	<b>)</b>	1				
1 0-ring	1 050	+	2	2	4	
2 Ball bearing #6301	201	2	<u>-</u>	22	3	
3 Ball bearing #6202	202	22	·	2	3	
4 Oil seal	531	2	Ż	4	6	
5 Packing ring	858		1	1	2	
6 Coupling ring	304		1	2	3	
	1.6 0.0 5					
- L.O. Priming Pump (DRG.No. DS-		T				
1 Ball bearing #5207 2 Grand packing	$\frac{201}{501}$	44	4	8	12	
3 Side plate	852	4	4	4	8	
4 Coupling ring	304		1	2	- <u>-</u> j	
······································						
- L.O. Sludge Pump(DRG.No. DS-13			· •			
<u>1</u> Stator	1	11	1	2	3	
2 Cover sleeve 3 Ball bearing #3305	19	+	2		4	
4 Ball bearing #6205		$\frac{2}{2}$		2	<u></u>	
4 Ball bearing #6205 5 O-ring	$\begin{array}{c} 23\\ 24\\ 31 \end{array}$	+ <u>+</u>		1	2	
6 O-ring	32	t	1	1	2	
7 Grand seal	34	22	1	2		
8 Oil seal	47		1	2	3	
9 Flinger ring	48		1	1	2	
10 V-belt		44	1	3	4	<u> </u>
- CRD Radiator Cooler -						
1 CYL/C.AIR cooling panel		+	3	· <u>i</u> ·	4	
2 Oil cooling panel	+	+			··· <sup>1</sup>	
- Air Intake Filter -	"I <u></u>		زز	<u> </u>		
1 Filter elements			2	- 7	2	
- 2FC-1, Fuel Valve C.W. Cooler(		2-3314-3)				
1 O-ring	6		1	2	3	
2 Gasket 3 Gasket	12	+ <del>-</del>		2	3	
3 Gasket	13	<u> </u>		2	3	

						<u>No.11</u>
		Q'ty rqu				
<u>ITEM</u>	<u>Cord No.</u>	by GUC	<u>Rehabil</u>	<u>Spare</u>	<u>Total</u>	Remark
	1	•				
- Air Pressure Reducing Valve -						
1 Spring 84D-329D DF000614	16			·	+	
2 Diaphram	19			·····	ļ	
3 Gasket 4 Spring	$\frac{23}{24}$			<u>I</u>	<u> </u>	
	24	+				
	$\frac{40}{31}$			1	<u> </u>	
6 Valve seat 7 Gasket	35	+		· · · · · · · · · · · · · · · · · · ·		
8 Screen for Y-filter KD016790	3	+		<u> </u>	<mark> </mark>	
9 Gasket	4	} <u>-</u>	·			+
10 Packing for drain valve KD01679	,			1		
11 O-ring for drain valve KDOLUTS	5	+				
12 Spring for safety releif valve	·	+			···-	
FTLPZ101	16	1		1	1	
	+ <u>····</u>			<u> </u>	<u>├</u> `	
- Float Valves & Joints -	t 1					
1 Valve disc BT-GG-03232-S	19,20	+		2	2	
2 Gasket	22			1	<u> </u>	
3 O-ring ET-GG-05034-S	4		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	2	2	
4 Valve disc BT-GG-05034-S	19,20			2	2	
5 Gasket	22					
6 O-ring ET-1467	4		-	1 2	$-\frac{1}{2}$	
		·				
- Singular Oil Strainers (DRG.No	<b>).453251)</b> -					
1 Strainer Cylinder complete	· · · · · · · · · · · · · · · · · · ·					
MOS-125R	$5 \sim 10$		-	i	1	
2 O-ring	14	-	1	1	2	
3 Strainer Cylinder complete						
MOS-125R	$5 \sim 10, 16$	-	-	1	1	
4 O-ring	15		1	1	2	
5 Strainer Cylinder complete	1	[				
MOS-40S	$5 \sim 10, 16$			3	3	
6 O-ring	15		3	3	6	
7 Strainer Cylinder complete						
MOS-40R	$5 \sim 10, 16$			<u>l</u>	1	
8 O-ring	15	····	<u> </u>	1	2	
- Duplex oil Strainer(DRG.No. MI	105-7208A~	(1)				
1 Stariner basket complete	$14 \sim 16, 19$			$\frac{2}{2}$	$\frac{2}{4}$	. <b></b>
<u>2</u> 0-ring	$\frac{24}{25}$		2	4	4	·
3 O-ring	40			<u>i</u>	2	
4 O-ring	26			$\frac{1}{2}$		
5 Gasket 6 Gasket	27 28	<u>-</u>	$\frac{1}{2}$	2	3 4	
	28	<u>-</u>	2		2	·
7 Gasket	<u> </u>		4		<u> </u>	
- Sootnu Courre -		1				
- Scetru Gauge -		+				
1 0-ring				 		
2 Packing	L			·		
. Right dlagg( of HE stanings)						
- Sight glass(水野strainer) - 1 80A Sight glass(アクリル)	7	+				
<u>1_80A_Sight_glass(アクリル)</u>  2_Gasket	· · · · · · · · · · · · · · · · · · ·					
Le vasnel	_ <u></u>		L			

				••••••••••••••••••••••••••••••••••••••			No.12
	T m Tibl		Q'ty rqu				<b>D</b>
	ITEM	Cord No.	<u>by GUC</u>	<u>Kenabi</u>	<u>Spare</u>	Total,	Remark
	. <b>F</b> † D _						
	- E.I.P Aux. relay (FRL 233 DC110V)		10		10	10	·
$\frac{1}{2}$	Aux, relay (FRL 455 DOLLOV)		10		10	10	
3	Aux. relay (MM 4XP DC110V)		10		$10^{-10}$	10	
4	Aux. relay (FRL 233 AC110V) Time lag relay (ST3PA-A DC110V)				4	4	
5	Time lag relay (ST3PA-A DC110V)		<u>-</u>		ι <u>1</u>		
6	Pilot lamp (YBN30-AIBR)				4	4	
L	Lamp (Bulb LPS-800)				4	4	
	Lamp (Bulb BA9S 30V 1W)	* ** ** ** ** ** ··· ·· ·* ** **	1		3	3	
L	Fuse (Element NC1 3A)		66		6	6	
	Elluminated Lamp (SL48-1002RW)		6		6	6	
	Elluminated Lamp (SL48-1122 18V	2W)	10		1-10	10	
	Elluminated Lamp(SL48-1002 110V		10		1-10	10	
13	Printed ciecuit board for		+		∔ <sup>=</sup>		
[	temperature monitor(F2E-KR 7	24MS)	8	- 1	6	6	
14	Printed circuit board for		f		↓		
	revolution counter		1	-	1	1	
15	Rectifier for power source panel		1		1	1	
16	Printed circuit board for power				+		
	source panel(U1-0-250°C/W2-0	-100°C)	2		2	2	
17				-			
	550V 5KA 50A MCB AC		Ī		1	1	
	250V 5KA 10A MCB AC		1	-	1	1	
1	250V 5KA 5A MCB AC		<u> </u>	-	1	1	
	185V 5KA 15A MCB DC		1		1	1	
	Thermal Relay (TH-K20 9-13A)		1		<u> </u>	1	
í –			l	[	ĺ		Í
	- Switch Board -						
[ 1	Change-over switch						
	(CSSID3 3-Position)		[ <u>[</u>		1		
	V.meter change-over switch (AB)		1		1		
3	Anmeter meter change-over switch Lamp (FML - R11)	<u>(AD)</u>	<u>1</u>		↓ <u>1</u>	· 1	
4_	Lamp (FML - R11)		5		5	5	
5	Lamp (FML - G11)		5		1_5	<u> </u>	
6	Push buttom switch with lamp		· ·				
	(M25 BQ-R)	• • • • • ·	11		1	1	
11	Push buttom switch with lamp		ļ ,		1	. 1	
8	(M25 BQ-G) Lamp SL (18V, 2W)		20		20	$\frac{1}{20}$	
		*•• <b>*</b> **	40		40		{
	- Exciter and Control Panel -				1		
1-1-	Synchronising and switch (AD-H40	<u></u>	+ <u>-</u>	+	i		
$\frac{1}{2}$	Resistors (40HS 40W, 950)	<u>uu/</u>	5	f	1	$\frac{1}{5}$	
3	Lamp globe for synchronising(FML	-110)	۱ ۱				
4	Lamp globe for synchronising(FML	-[]			i	· <u>1</u>	
5	Thyristor (80PL25)		1	f	1	2	
6	Silicon diode (51H-31-12)		μ <u>μ</u>	+	2	4	
17-	Thyristor exciting contoproller(	GECLALOY	+		1	1	
8	Silicon rectifier diode (A32-071		$\frac{1}{3}$	f	$\frac{1}{3}$		·
<u> </u>	Silicon rectifier diode (A32-071		<u> </u>		3	3	
10-	Thermometer with contact	<u>-1-2</u>	+		<u>+</u>		
L	TINT HOMODOL TINI CONCUC		1	1	(		

						No.13
		Q'ty rqu	Supr		v	
ITEM	Cord No.	by GUC	Rehabil	Spare	Total	Remark
- Miscellanious -		<u> </u>	<u> </u>	4.00 - C		
1 Fuse element (ELA003 3A)		6		6	6	
2 Fuse element (ELA005 5A)		6		6	6	
3 Fuse element (ELA010 10A)		6		6	6	
4 Fuse element (ELA015 15A)	**	6	-	6	6	
5 Fuse element (ELA030 30A)		4	~	4	4	
6 Fuse element (ELA045 45A)		2		2	$\frac{2}{2}$	
7 Over load trip (10-13A) LRI-D12	316	$\frac{2}{2}$	<u> </u>	2	2	
8 Over load trip (18-25A) LRI-D25	322		-	2		
9 Over load trip (23-32A) LRI-D40	353	2		2	2	
- E.I.P. & Engine mounted Panel	***			+		
<u>1</u> Pressure gauge		18	9	9	18	
2 Pressure switch		20	<u>    10                                </u>	10	20	
- Thermometer(100°C /150°C) -		26	13	13	26	
			<u> </u>	10	40	
- Pressure gauge for Auxiliaies		52	26	26	52	
- Motong -						
<u> </u>		·	+	+	+	
$(27.5 \text{ kW} \times 975 \text{ rpm} \times 415 \text{ V} \times 50 \text{ Hz})$	)	1		1	1	
2 CA/JW Radiator fan Motor	·	· +		∔ <u></u>		
$(22 \text{ kW} \times 1480 \text{ rpm} \times 415 \text{V} \times 50 \text{Hz})$	<b>`</b>	1		1	1	
3 CA/JW Pump Motor		· · [· - · · - <sup>1</sup> - · · · · ·	+	∔	•	
( 22 kW x 1480rpm x 415V x 50Hz)	<b>`</b>	1	_	1	1	
4 F.O. Supply Pump Motor		· +		· • *	· <del>*</del>	
$(5.5 \text{kW} \times 950 \text{ rpm} \times 415 \text{V} \times 50 \text{Hz})$	)	1	-	1	1	
5 L.O. Priming Pump Motor		· +		∔   		
( 11 kW x 950 rpm x 415V x 50Hz)	)	1	-	1	1	
6 L.O. Purifier Motor	,	· - +	+	+		
( 7.5kW x 1450rpm x 415V x 50Hz)	)	1	-	1	1	
7 Turning Gear Motor	·	·	+	+		
$(5.5kW \times 1450rpm \times 415V \times 50Hz)$	)	1	-	1	1	
				+	<u> </u>	
- Turning Gear Limit Switch (K9:	3251)-	-		2	2	
-Oil Mist detector-						
1 Exciter bulb 12V 100W (B0391-00)	<u>0202)</u>	• • • • • • • • • • • • •		4	4	
2 Fuse 2A (B0391-00020Z)			<u> </u>	10	10	
- Pneumatic System -		· <del>-</del> - · · - <del>.</del> - · · - ·	T	+		
1 Solenoid valve 117 (No.74Y49452-		33		3	3	
2 GBCH-K 3-way valve (No. 74Y4950)	3-10)			↓ <b>!</b>		
<u>3 GHC-38 3-way valve (No. 7494920</u>	<u>1-10)</u>	·+ <u>-</u>	· · · · · · · · · · · · · · · · · · ·		ļ <u>l</u>	
4 GFH-35 3-way valve (No. 74Y4901)	(-10)	<u>l</u>	<b> </b>	↓ <u>↓</u>		
5 GRAH-314M 3-way valve (No.6547-4	149331-10	.4 <u>.</u>				
6 Magnetic coil (24Z5/1P55)		3	L	<u>] 3</u>	3	
- Others -	~~~~~~		T		1	
1 Resistance bulb (PTR-LN7(L-180))	!	$-\frac{2}{5}$	+	$\frac{2}{5}$	$\frac{2}{5}$	
2 Thermo couple (MCA-RN(L-120))		5	+	+ <u>-</u>		
3 Thermo couple (MCA-RN(L-200))				5 5 2 2		
4 Thermo couple (MCA-RN(L-220))		5	+	1		
5 Rational non-flow Alarm (Model)	<u>1668)</u>	2	+	4		
6 Limit switch (ZE-N-2)		2		2		
7 Limit switch (ZE-N22-2)		2		<u>-</u>		
8 Limit switch (ZE-N21-2)		1	· ·	1 1	I I	

-11	~		1
N	U	٠	Τ

			<u> </u>	10110	<u>NO.1</u>
·		Std		Q'ty	
No.	Item	<u>q't</u>	ystocked	supply	<u>Akemarks</u>
					ł
	- Special Tolls for Engine -				1
G202	Peak pressure gauge 2SYG202 4124737	1			
	······································			1	
<u>G204</u>					
<u>G208</u>	Depth gaoge 18YG208 5158518			{ <u>-</u>	
<u>G301</u>	llydraulic hand pump complete ISYG302 489962		<u>_</u>		<u> </u>
G302	llydraulic cylinder ISYG302 5100341	2		2	
	llexagon wrench keys set 15YG420 5323125				
	1SYG401 5319285	1	-		
G401	B = 4, L = 72	2	-	2	
G402	B = 5, L = 80	2		2	
G403	B = 6, L = 90	2		2	
G404	B = 8, L = 110			<u> </u>	<b> </b>
				2	<u> </u>
<u>G405</u>	B = 10, L = 112	$\frac{2}{2}$			
G406	B = 14, L = 140			2	
G407	B = 17, L = 160	. 2		2	<u> </u>
G408	B = 22, L = 200	2		2	<u> </u>
	Clip screw 15YG502 5103403	1.			
G502-1	M = M 6, L = 170	2	2	 ⊷	[
<u>G502-2</u>	M = M 8, L = 175	2	2		
<u>G502-2</u>	$M = M_{0}, L = 175$ M = M10, L = 185	2	2	<u> </u>	<u> </u>
0002-0					
	Eye bolt 1576501 5319286			ł	
<u>G501-1</u>	M = M10	5	1	4	
<u>G501-2</u>	M = M12	5		5	
G501-3	M = M16	5	-	5	
G501-4	M = M20	5	1	4	
<u>G501-5</u>	$\mathbf{M} = \mathbf{M}\mathbf{Z}\mathbf{A}$	5		5	
G501-6	M = M30	5		5	
0001-0					_ <u></u>
	<u>Bolt</u> 1SYG503 5319287			<u>-</u>	
<u>G503-1</u>	M8 X 80	5		5	
G503-2	M10 X 100	5		5	Í <u></u>
G503-3	M12 X 100	5		5	
G503-4	M16 X 130	5		5	
G503-5	M20 X 150	5	-	5	
	Double end & open Ended spanner 18YG601 531928			<u> </u>	
G601-1	S = 10, S2 = 14, L = 140	2	-{	2	
$\frac{6601-2}{0001-2}$	S = 13, S2 = 17, L = 165	<u>2</u> 2	L	$\frac{1}{2}$	<u> </u>
<u>G601-3</u>	S = 17, S2 = 19, L = 180			4	
<u>G601-4</u>	S = 19, S2 = 22, L = 205	2	_ <u>1</u>	<u> </u>	
<u>G601-5</u>	S = 24, S2 = 27, L = 245	2		2	L
G601-6	S = 27, S2 = 30, L = 270	2	2		
G601-7	S = 30, S2 = 32, L = 285	2	2		
G601-8	S = 36, $S2 = 41$ , $L = 360$	2		2	
<u>6601-9</u>	S = 46, S2 = 50, L = 430	2		2 2	
	0 - 40, 06 - 30, L - 400	$-\frac{2}{2}$		2	
<u>G601-10</u>		2		·····	
	Open ended spanner 1SYG602 5319289				
<u>G802-1</u>	S = 12, L = 135	2	1	<u> </u>	
G602-2	S = 14, L = 165	2	1	1	1
G602-3	S = 19, L = 180	2		2	
G602-4	S = 24, L = 220	2	1	<u> </u>	
G602-5	S = 27, L = 245	2	2		
				<u>↓</u>	
<u>G602-6</u>	S = 30, L = 270	2	2	<u> </u>	L
<u>G602-7</u>	S = 32, L = 285	2		2	
<u>G602-8</u>	S = 36, L = 320	2		2	
G602-9	S = 65, L = 550	2	1	1	
	······································				<u> </u>

Remarks : "No." indicated above shows the part No. of the instruction

manuals prepared by the manufacture of No.4 DEG.

No.       Ites       Q <sup>+</sup> /spiceked SupplyRemarks         6603-1       Si = 11, S2 = 17, L = 160       2       -       2         6603-2       Si = 11, S2 = 17, L = 200       2       -       2         6603-3       Si = 17, S2 = 19, L = 245       2       -       2         6603-4       Si = 20, S2 = 27, L = 310       2       -       2         6603-5       Si = 30, S2 = 27, L = 350       2       -       2         6603-6       Si = 20, S2 = 27, L = 350       2       1       1         6603-7       Si = 36, S2 = 20, L = 536       2       -       2         6603-7       Si = 40, S2 = 50, L = 536       2       -       2         6604-1       Sox spanner(1=7, S=13, L=160)       18Y6604 5103417       2       1         6701-1       Torque wrench(12, TDI X 400)(22       -       2       -       -         6701-2       Torque wrench(12, TDI X 400)(25       -       1       -       -         6704-3       Spinner, handle (19C)       18Y6703 5175014       1       -       -         6706-4       Se 130, Se 22, 22, -       18Y6703 5175014       1						No.2
45°       Double offset spanner       ISYG603 5319290			Std	Q'ty	Q'ty	Dama ula a
$ \begin{array}{c} 6603-1 \\ 6603-2 \\ 6603-3 \\ 6603-3 \\ 6603-4 \\ 81 \\ 81 \\ 81 \\ 91 \\ 91 \\ 91 \\ 91 \\ 91$	NO.		<u>ų ty</u>	<u>s tocked</u>	suppiy	<u>kemarks</u>
$ \begin{array}{c} 603-2 \\ 603-3 \\ 603-3 \\ 81 \\ 1 \\ 1, 82$	<u>G603~1</u>		2		2	······································
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				-	2	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	G603-3	S1 = 17, S2 = 19, L = 245	2	-	2	
$ \begin{array}{c} 6603-6 & \mathrm{S1} = 30, \ \mathrm{S2} = 24, \ \mathrm{L} = 350 & 2 & - & 2 \\ 6603-6 & \mathrm{S1} = 36, \ \mathrm{S2} = 41, \ \mathrm{L} = 458 & 2 & - & 2 \\ 6603-6 & \mathrm{S1} = 46, \ \mathrm{S2} = 50, \ \mathrm{L} = 536 & 2 & 1 & 1 \\ 6604-1 & \mathrm{Box spanner}(1=7), \ \mathrm{s=13}, \ \mathrm{L=160} & \mathrm{ISY6604} \ 5103417 & 2 & - & 2 \\ 6604-2 & \mathrm{Box spanner}(1=22, \ \mathrm{S=13}, \ \mathrm{L=160} & \mathrm{ISY6604} \ 5103417 & 2 & 1 & 1 \\ 6705 & \mathrm{Pin spanner}(\mathrm{S=102}, \ \mathrm{L=2800} & \mathrm{ISY6604} \ 5103417 & 2 & 1 & 1 \\ 6701-1 & \mathrm{Torque wrench}(12, \ \mathrm{TL} 1 \ 400)(2- & 1 & 1 \\ 6701-2 & \mathrm{Torque wrench}(12, \ \mathrm{TL} 1 \ 400)(2- & 1 & 1 \\ 6701-3 & \mathrm{Torque wrench}(12, \ \mathrm{TL} 1 \ 400)(25 & 1 & 1 & - \\ - & - & - & - & 286g, \ \mathrm{m}) \ 18Y6701 \ 5323126 & 1 & 1 & - \\ 6702 & \mathrm{Ratchet handle} & (160) & \mathrm{ISY6704} \ 5323126 & 1 & 1 & - \\ 6702 & \mathrm{Ratchet handle} & (160) & \mathrm{ISY6704} \ 5303405 & 1 & - & 1 \\ 6706 & \mathrm{Spinner handle} & (160) & \mathrm{ISY6704} \ 5303405 & 1 & - & 1 \\ 6706-1 & \mathrm{S=17, D=12, 7} & 1 & \mathrm{ISY6706} \ 5103406 & - & - & 1 \\ 6706-4 & \mathrm{S=22, = 12, 7} & 1 & - & 1 \\ 6706-5 & \mathrm{S=22, = 12, 7} & 1 & - & 1 \\ 6706-5 & \mathrm{S=22, = 12, 7} & - & 1 & - & 1 \\ 6706-5 & \mathrm{S=22, = 12, 7} & - & 1 & - & 1 \\ 6708-6 & \mathrm{S= 24, = 12, 7} & - & 1 & - & - \\ 6708-6 & \mathrm{S= 24, = 12, 7} & - & 1 & - & - \\ 6708-6 & \mathrm{S= 24, = 12, 7} & - & 1 & - & - \\ 6708-6 & \mathrm{S= 24, = 12, 7} & - & 1 & - & - \\ 6708-6 & \mathrm{S= 24, = 12, 7} & - & 1 & - & - \\ 6708-1 & \mathrm{S= 46, = 25, 4} & \mathrm{ISY6708} \ 5103409 & 1 & - & 1 \\ 6708-1 & \mathrm{S= 6, D= 25, 4} & \mathrm{ISY6708} \ 5103409 & 1 & - & 1 \\ 6708-1 & \mathrm{S= 6, D= 25, 4} & \mathrm{ISY6719} \ 5103410 & - & - & 1 \\ 6708-1 & \mathrm{S= 6, D= 25, 4} & \mathrm{ISY6718} \ 5103409 & 1 & - & 1 \\ 6708-1 & \mathrm{S= 17, = 12, 7} & - & 1 & - & 1 \\ 6708-1 & \mathrm{S= 17, = 12, 7} & - & 1 & - & 1 \\ 6708-1 & \mathrm{S= 17, = 12, 7} & - & 1 & - & 1 \\ 6708-1 & \mathrm{S= 17, = 12, 7} & - & 1 & - & 1 \\ 6708-1 & \mathrm{S= 17, = 12, 7} & - & 1 & - & 1 \\ 6708-1 & \mathrm{S= 12, 7, = 12, 7} & - & 1 & - & 1 \\ 6708-1 & \mathrm{S= 17, = 12, 7} & - & 1 & - & 1 \\ 6708-1 & \mathrm{S= 17, = 12, 7} & - & & 1 & - & 1 \\ 6708-1 & \mathrm{S= 12, 7, = 12, 7} & - & & 1 & - & 1 \\ 6708$		S1 = 19, S2 = 22, L = 255	2	•••	2	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		S1 = 24, $S2 = 27$ , $L = 310$	2		2	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		51 = 30, 52 = 32, L = 350		1.	· <u>1</u>	
$ \begin{array}{c} 6004-1 \\ 605 \\ 604-2 \\ 605 \\ 805 \\$		S1 = 46 $S2 = 50$ $L = 536$	2		1	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				<u>_</u>	2	
	G604-2	Box spanner(1=22,S=19,L=160) 1SYG604 5103417	2	1	1	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		Pin spanner(S = 102, L = 280) 1SYG605 5103418	1	**	1	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	G701-1	Torque wrench(12.7 🗆 X 400)(2-				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	0701 0	9Kg.m) 1SYG701 5323126	<u> </u>	1		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	6701-2		1	1	-	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	G701-3		<sup>1</sup>	¥		····
G702     Ratchet handle (19 $\Box$ )     18YG7, 2 5103405     1     -     1       G703     Power wrench(12.7 $\Box$ x 267)     18YG703 5175014     1     1     -       G704     Spinner handle(9 $\Box$ x 230)     18YG706 5103408     -     1     -       G706-1     S = 17, $\Box$ = 12.7     1     -     1     -     1       G706-2     S = 22, = 12.7     1     1     -     1     -       G706-3     S = 22, = 12.7     1     1     -     -     1       G706-4     S = 30, = 25.4     18YG706 5103408     1     -     1       G706-5     S = 24, = 12.7     1     1     -     1       G708-1     S = 60, = 25.4     18YG708 5103409     1     -     1       G708-2     S = 60, = 25.4     18YG708 5103410     -     1     -     1       G709-1     S = 60, = 12.7     1     -     1     -     1     -     1       G709-3     S = 10, = 12.7     1     -     1     -     1     -     1     -     1       G709-1     S			i	1	~	
G704       Spinner handle( $9 \square x 230$ )       ISYG706 5103407       1       -       1         G706-1       S = 17, $\square$ = 12.7       1       -		Ratchet handle (19□) 15YG7,2 5103405	1		1	
Socket       ISYG706       5103408		Power wrench(12.7□ x 267) 15YG703 5175014	1	1		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<u>G704</u>		1		1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0708 1				1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					1	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			1	1		
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			1	1	4	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		S = 24, = 12.7	1		1	
Socket       1SYG709 5103410         G709-1       S = 6, $\Box$ = 25,4       1         G709-2       S = 8, = 12.7       1         G709-3       S = 10, = 12.7       1         G709-4       S = 17, = 12.7       1         G709-4       S = 17, = 12.7       1         G701-1       S = 17, = 12.7       1         G711       Ring spanner( $\Box$ =9,5,0=19)       1SYG710 5103411         G712       Extension bar(NV=19C, L=200)       2SYG712 5210561       2         G713-1       Socket adapter( $\Box$ =19, 25.4       1SYG713 5103414       1         G713-2       Socket adapter( $\Box$ =19, 25.4       1SYG713 5103414       1       -         G713-3       Socket adapter( $=12.7, 19$ )       1SYG715 5103414       1       -         G713-3       Socket adapter( $=12.7, 19$ )       1SYG715 5323123       -       -         (L= 170, 230, 270)       Each       1       -       1         Stop ring Plier(Shaft)       1SYG716 5103415       -       1         G718       Screw driver       1SYG716 5103415       -       1         G718       Screw driver       1SYG716 5319291       2			1	1	-	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<u>G708-2</u>			-	<u> </u>	····
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0700 1	Socket ISYG709 5103410			1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		S = 0, LI = 20.4 S = 8 = 12.7	<u>k</u>		<u> </u>	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			1	-	1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		S = 17, $= 12.7$	1	_	1	
G712     Extension bar(NV=19□, L=200)     2SYG712     5210561     2     -     -       (NV=12.7□, L=250)     2SYG712     5210561     2     2     -       G713-1     Socket adapter(□=19, 25.4)     1SYG713     5103414     1     1     -       G713-2     Socket adapter(=25.4, 19)     1SYG713     5103414     1     -     1       G713-3     Socket adapter(=12.7, 19)     1SYG713     5103414     1     -     1       G715     Stop ring Plier(Hole)     1SYG715     5323123     -     -     1       (L=170, 230, 270)     Each     1     -     1     -     1       Stop ring Plier(Shaft)     1SYG715     5323123     -     -     1       (1=170, 230, 270)     Each     1     -     1     -     1       G716     Combination Plier(L=200)     1SYG716     5103415     1     -     1       G718     Screw driver     1SYG718     5319291     2     -     2       B = 4.5, L = 50     -     -     -     -     -     -       B = 7, L = 125<	G701-1	S = 17, $= 19$ 1SYG710 5103411	1		1	
(NV=12.7 □, L=250)     2SYG712     5210561     2     2     -       G713-1     Socket adapter(□=19, 25.4)     1SYG713     5103414     1     1     -       G713-2     Socket adapter(=25.4, 19)     1SYG713     5103414     1     -     1       G713-3     Socket adapter(=12.7, 19)     1SYG713     5103414     1     -     1       G715     Stop ring Plier(Hole)     1SYG715     5323123     -     -     1       G716     Combination Plier(Shaft)     1SYG715     5323123     -     -     1       G716     Combination Plier(L=200)     1SYG716     5103415     1     -     1       G718     Screw driver     1SYG718     5319291     2     -     2       B = 4.5, L = 50     -     -     -     -     -     -     -       B = 9, L = 200     -     <		Ring spanner(□ =9.5,D=19) 1SYG711 5103412			1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	<u>G712</u>					
G713-2     Socket adapter( = 25.4, 19 ) 1SYG713 5103414     1     -     1       G713-3     Socket adapter( = 12.7, 19 ) 1SYG713 5103414     1     -     1       G715     Stop ring Plier(Hole)     1SYG715 5323123     -     1       (L= 170, 230, 270 )     Each     1     -     1       Stop ring Plier(Shaft)     1SYG715 5323123     -     -     1       (1= 170, 230,)     Each     1     -     1     -     1       G716     Combination Plier(L=200)     1SYG716 5103415     1     -     1     -     1       G718     Screw driver     1SYG718 5319291     2     -     2     -     2       B = 4.5, L = 50     -	0712-1		2	<u> </u>		
G713-3     Socket adapter(=12.7, 19)     1SYG713     5103414     1     -     1       G715     Stop ring Plier(Hole)     1SYG715     5323123     -     1     -     1       G715     Stop ring Plier(Shaft)     1SYG715     5323123     -     1     -     1       Stop ring Plier(Shaft)     1SYG715     5323123     -     1     -     1       G716     Combination Plier(L=200)     1SYG716     5103415     1     -     1       G718     Screw driver     1SYG718     5319291     2     -     2       B = 4.5, L = 50     -     -     -     -     -     -       B = 7, L = 125     -     -     -     -     -     -       B = 9, L = 200     -     -     -     -     -     -     -       0201     Hydraulic tightening jack for main bearing     2SY0201-1     3125872     2     -     -     -       0203     Lifting and lowering device     1SY0203     156407     2     -     1				<u>_</u>	1	
G715     Stop ring Plier(Hole)     1SYG715 5323123     1     -     1       Stop ring Plier(Shaft)     1SYG715 5323123     1     -     1       G716     Combination Plier(L=200)     1SYG716 5103415     1     -     1       G718     Screw driver     1SYG716 5103415     1     -     1       G718     Screw driver     1SYG718 5319291     2     -     2       B = 4.5, L = 50		Socket adapter( $=12.7, 19$ ) 1SYG713 5103414	1	-	<u>1</u>	
(L= 170, 230, 270)     Each     1     -     1       Stop ring Plier(Shaft)     1SYG715 5323123     -     1       (1= 170, 230,)     Each     1     -     1       G716     Combination Plier(L=200)     1SYG716 5103415     1     -     1       G718     Screw driver     1SYG718 5319291     2     -     2       B = 4.5, L = 50     -     -     -     -     -       B = 5.5, L = 70     -     -     -     -     -       B = 7, L = 125     -     -     -     -     -       B = 10, L = 250     -     -     -     -     -       0201     Hydraulic tightening jack for main bearing     2SY0201-1 3125872     2     -     -       Paraliel pin for Do.     (& 8 x C.D = 120)     -     1     -     1       0203     Lifting and lowering device     1SY0203 156407     2     -     1		Stop ring Plier(Hole) 1SYG715 5323123				···
(1=170,230,)     Each     1     -     1       G716     Combination Plier(L=200)     1SYG716 5103415     1     -     1       G718     Screw driver     1SYG718 5319291     2     -     2       B = 4.5, L = 50     B     -     1     -     1       B = 5.5, L = 70     -     -     -     -     -       B = 7, L = 125     -     -     -     -     -       B = 9, L = 200     -     -     -     -     -       B = 10, L = 250     -     -     -     -     -       0201     Hydraulic tightening jack for main bearing     2SY0201-1 3125872     2     2     -       Paraliel pin for Do.     (\$\nother 8\$ x C.D = 120\$)     1     -     1     -       0203     Lifting and lowering device     1SY0203 156407     2     -     1		(L= 170, 230, 270) Each	1		1	
G716     Combination Plier(L=200)     1SYG716     5103415     1     -     1       G718     Screw driver     1SYG718     5319291     2     -     2       B = 4.5, L = 50     B = 4.5, L = 50     B = 5.5, L = 70     -     -     1       B = 7, L = 125     - </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
G718     Screw driver     1SYG718 5319291     2     -     2       B = 4.5, L = 50     B = 5.5, L = 70     B = 5.5, L = 70     B = 7, L = 125     B = 9, L = 200     B = 9, L = 200     B = 10, L = 250     D = 10, L = 250     D = 10, L = 250     D = 10, L = 250     D = 10, L = 250     D = 10, L = 250     D = 10, L = 10, L = 10, L = 10, L = 10, L = 10, L = 10, L = 10, L = 250     D = 10, L	0710	$\frac{(1 = 170, 230)}{(2 - 16)} \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad \qquad$	1		<u>l</u>	
B = 4.5, L = 50						
B = 5.5, L = 70			4		<u></u>	
B = 7, L = 125		B = 5.5, L = 70				
B = 9, L = 200     B = 10, L = 250       B = 10, L = 250     B = 10, L = 250       O201     Hydraulic tightening jack for main bearing     2SY0201-1 3125872     2     -       Paraliel pin for Do.     (¢ 8 x C.D = 120)     1     -     1       0203     Lifting and lowering device     1SY0203 156407     2     -     1		B = 7, L = 125				· · · · · · · · · · · · · · · · · · ·
0201Hydraulic tightening jack for main bearing2SY0201-1 31258722Paraliel pin for Do.(\$\vec{x} 8 x C.D = 120)1-0203Lifting and lowering device1SY0203 1564072-		B = 9, L = 200				
main bearing       2SY0201-1 3125872       2       2       -         Paraliel pin for Do.       (\$\vec{k} 8 x C.D = 120\$)       1       -       1         0203       Lifting and lowering device       1SY0203       156407       2       -       1	0000	B = 10, L = 250				
Paraliel pin for Do.       (¢ 8 x C.D = 120)       1       -       1         0203       Lifting and lowering device       1SY0203       156407       2       -       1	0201	Hydraulic tightening jack for		ŋ	_	
0203 Lifting and lowering device 18Y0203 156407 2 - 1		$\begin{array}{c} \text{main bearing} \\ \text{Paraliel pin for } \text{ho} \\ \end{array} \qquad \begin{array}{c} 2510201^{-1} & 3123872 \\ \text{Or } \text{A} & \text{V} & \text{C} & \text{D} \\ \end{array}$	4	4	1	
	0203		2	-	1	
		for bearing cover			-	

	·····					<u>No.3</u>
No.	Item		Std Q'ty	Q'ty stocked	Q'ty supply	Remarks
0204	Assembling & dismantling	1SY0204 489965	<u> </u>		<u>_</u>	
	tool for upp, bearing shell		1	-	1_1	
0205	Assembling & removal tool for lower bearing shell	1SY0205 156408	1	-	1	
0501	Regrinding device for	1SY0501 393261	·†		<b>}</b>	
	cylinder liner and cover		1	1	- 1	
0503	Measuring rail	1SY0503 393323	1-1-	1		
0503-1	Inside micrometor	2SY0503-1 5222396	<u> </u>			
		1SY0503-4 416223	1	1		
0502-1	Removing device for	2SY0502-1 2349848		·······		
	cylinder liner		1	l í	- 1	
502-5	Suspension bracket for	2SY0502-5 2149085				
	cylinder liner		1	1		1
0601	Suspension bracket and	2SY0601 3166097	1		1	
	bolt for cylinder cover				-	
0602-1	Hydraulic tightening lack	2SY0602-1 4124711	8	8		
	for cylinder cover		1	[	ĺ	Í .
	Parallel pin for Do.	(¢8, C.D=120)	1	-	1	
0602-6	Rubber hose with coupler	2SY0602-6 5158561	7	-	7	]
0602-7	Handle	1SY0602-7 4124740	1		11	
0602-8	D. gauge with magnetic base	1SY0602-8 5234928		-	8	
0603	Jack screw for lifting up	1SY0603 393235	2	·	2	
	<u>cylinder cover</u>	(M20, L = 600)			<u>.</u>	
0604	Pressure testing device	1SY0604 393236	· 1	_	1	
	for cylinder cover					
0606	Fitting and extracting too; for fuel valve liner	1SY0606 393237	1	-	1	
0607-1		1SY0607 393238		1	<u> </u>	
000/-1	Regrinding tool		1	1	-	
0607-2	for fuel valve seat Cleaning tool	(c 90, L=750)	<u>-</u>			L
0007-2		1SY0607 393238			-	
0608	for fuel valve seat Extracting tool for fuel	<u>(B=100,L=500)</u> 2SY0608 3125522		1		
0000	valve & stating valve		1	· 1	-	
0610	Fitting and extracting tool	<u>(B=243, L=425)</u> 2SY0610 3125866	1	1.		i
	for valve seat (¢96)			_		
0612	Regrind, tool for valve seat		1	1	-	
0614	Spanner for pre-tightening	1SY0614 4123836	1	1	-	
	CYLINDER COVER					
0615	Socket spanner for	1SY0615 4123837	1	1		
	safety valve					
0617	Suspension bracket for bear-	1SY0617 2175501	1	1	-	
0000	ing casing on cyl. cover	7				 
0620	Grinding tool for valve seat	(LUDWIG HUNGER)	1	1	-	
0010		(TYPE VSMR 3)				
<u>0619</u> 0618	Spanner for handle of cover	1SY0619 5319272		1		
0010	Maintenance stand for	2SY0618 3166095	1	1		
0703-1	cylinder cover	(B = 976, H = 900)	ļ			
0703-1	Special wrench for	1SY0703-1 393312	1	1	-	
0704	coupling bolt	100000 0 0 0 0 0 0 0 0 0 0				<u> </u>
0702	Deflection gauge	1SY0704 5210492	$\frac{1}{2}$	1 2		
0184	Hydraric tightening jack	1  SY0702  397529		Z	-	
	for counter weight Handle(B = 300, H = 330)	$(D = \phi 140, H = 95)$				
<u>0709</u> _K	] <u>nanute(n ⇔ 300</u> , n ≕ 330)	<u>15Y0702-5 4124708</u>				L
<u>0702-5</u> 0801-1	Hydraulic oylindon	1000001 1200000	• • • •			
0801-1	Hydraulic cylinder	1SY0801-1489929	2	<u>1</u>	<u>_</u>	
$\frac{0702-5}{0801-1}\\ 0801-4\\ 0801-5$	Hydraulic cylinder Special ring spanner(1=270) Extention sleeve(L=200±1)	<u>1 SY0801-1489929</u> <u>1 SY0801-4 489969</u> 1 SY0801-5 489970	$\frac{2}{2}$	$\frac{1}{2}$	-	

			0.1.1			<u>N0.4</u>
No.	Item		Std D'tv	Q'ty stocked	Q'ty supply	Remarks
0802-1	Support with 3 bolts	1SY0802-1 2149101				ncuul no
000 1	and underlay	1010000 1 0110101			-	
803	Suspension bracket for	1SY0803 4169608	1		1	
	connecting rod	(B=396, H=130)	-		-	1
001-50	Suspension bracket for piston	2SY1001-50 234985	1	1	-	
001-60	Handle for piston	1SY1001-60 412472	Ī	1	-	
001-7	Guide shoe	2SY1001-7 3125528	1	1	·	
	for connection rod	· · · · · · · · · · · · · · · · · · ·				
	GAuide ring(D=550, H=86)	2SY10001-62 234985		1	-	
	Woodenblock	<u>1SY1001-64 312553</u>		1		
001 - 13	Handle for upper part of	1SY1001-13 492335	- 1	1	-	
	connecting rod (L=1000)					
002	Clamping bolt(M16, L=240)	1SY1002 489941	4	4		
003	Eye bolt(M12, L=211)	1SY1003 5100316	2	2		
004 005	Jack bolt(M22, L=480)	<u>1 SY1004 489945 -</u> 1 SY1005 393321	4		4	
005	Centerring ring,D=248, t=70 Lift-off device for upper	1SY1007 492309	$\frac{1}{2}$	4	2	
007	part of piston	1511007 152505			4	
008	Hexagon bar( $C=22$ , L=80)	1SY1008 5100306	1	1		
010	Piston ring tentioner	1SY1010 393322	: 1		1	
201	Fitting and removal of	<u>3 SY1201 2366814</u>	i	1		
202	Ink-marking gauge for			•		
	valve spindle(D=140,L=220)	1SY1202 492216	- 1	-	1	
203	Hand grip for clamping of	1SY1203 393354	1	1	-	
	valve spindle					
701	Spray resting device	2SY1701 2306816	1	-	1	
702	Socket wrench for fuel	1SY1702 489949	1	1	-	
	injecting valve nut					
703	Regringding ring for valve	1SY1703 5100313	1	-	1	
<b>T</b> O 1	seat	1001004 400040				
704	Tool set	1SY1704 492240			<u></u>	······
	1.Lappind disk					
	1. Steei wire			·		<u> </u>
	<u>1.Ink-marking disk</u> 1,Copper mandrel					·······························
	1.Case with 5 drills					
	and 1 plug gauge					
705	Lapping plate(40x200x300)	1SY1705 5158516	1	1		
706	Lapping powder	1SY1706 5158560	1		1	
901	Guide for regrinding	3SY1901 4169653	1	÷-	1	
	of spindle (D=65¢,H=60)					
902	Socket wrench	1SY1902 5175039			1	·
501	Socket wrench	<u>1SY2501 489948</u>	1	1		
502	Removing tool	2SY2502 3213043	1	1	-	
	for guide piston	1040500 4 5110510				
502-4	Grip screw for Do.	<u>18Y2502-4 5110516</u>		<u>l</u>	-	
$\frac{503}{001-1}$	Bolt for guide piston	<u>1872503 489933</u> 1872901-1 2149052	$\frac{1}{2}$	<u> </u>		
901-1	Fiting and removing tool for camshaft (L=923)	1016001-1 6190006		T	I	
901-8	Support for DO.	1SY2901-8 2149054	2	1	1	·
<u>901-0</u> 903	Gauge for setting of cam	2SY2903 4204505			1	
<u>904</u>	Hydraulic punp	<u>1872904 5174999</u>		1		
$\frac{304}{904-1}$	High-pressure hose (L=3m)	1SY2904-1 5174993	1	1		
$\frac{304}{904-3}$	Hose joint (L=100)	1SY2904-3 4124724	$\frac{1}{1}$	<u> </u>		
601	Adjusting tool	2SY3601 2366878	1	1	-	·
601-11		1SY3601-11 492252	1	1		

No.5

r			10.1	1 01	1 01	<u>No.5</u>
	т.,		Std		Q'ty	
	Item		Q't	stocked	supply	Kemarks
3601-17		1SY3601-17 416960	<u>1</u>	<u> </u>	-	
3602	Bracket for fitt. of cover	<u>38¥3602 3125875</u>	1	-	1	
3603	Gauge for adjusting	1SY3603 5100303	1	1	-	
3604-1	Distance piece for cut-off	1SY3604-1 5100304	4 3		3	
3701	Fitting tool for fuel	1SY3701 489985	$\frac{1}{1}$		1	
	delivery valve	1010101 100000	1 *	i		)
3702	Spanner for unions	2SY3702 5319273		1		l
4602				<u>+</u>		····
	Device for tension springs	1SY4602 2171194	<u> </u>		·	[
6810	Rubber hose for cleaning	SSY6810 5319276	1	-	1	
	of turbocharger(L=5000)		<u> </u>	<u></u>	·	
VT R-1	Rotor fixing tool	NN317501 90030	1	1	-	
	(With special bolts)	(D=120, L=200, t=20)	Ж	{		<u>}</u>
VTR-2	Box spanner special	NN317503 90050	1	1	-	
VTR-3	Extractior	NN317504 90070 .	1	1 1	- 1	
VTR-4	Guide plate (biower side)	NN317513 90160	1-1-	j		
VTR-5	Guard case	NNJ17512 90140	1	1		j
VRT-6	Guide plate(turbine side)	NN317515 90170	<u>† 1</u>	<u>†</u> †		<u></u>
VTR-7	Drawing device	NN317521 90190	+	· <u> </u>	<u> </u>	<u> </u>
VTR-8	Holding device	NN317520 90180	$\frac{1}{1}$	<u> </u>	<u> </u>	
VTR-9	Industion pine	NN317524 90200	╆╍╬╴			
	Induction pipe		<u> </u>	<u> </u>	<u> </u>	{
VTR~10	<u>Handle (14 x 160 )</u>	NN447693 90220	<u>↓      </u>	·}		
VTR-11	Extension pipe	<u>NNJ17528 90210</u>		<u> </u>		
VTR-12	Eyenuts	<u>NN317558 90230</u>	1	1		
VTR-13	Handle ( 12 X 250)	NN507564 90260	1	-	1	
VTR-14	Hexagon wrench key(4x72)	NN637537 90270	1	1	-	
VTR-15	Locking device (turb. side)	NN317577 93000	1	1 1		
VTR-16	Handle	NN447585 93101	1		1	
VTR-17	Bar	NN447585 93102	1 1	1 1		
<b>VTR-18</b>	Socket	NN317587 93103	†	1 1		
VTR-19	Socket	NN447587 93104	<u></u> -	<u> </u>	1	
VTR-20	Wire rope(6 x 1022)	NN317552 90350	<del>-</del>	· · · · · · · · · · · · · · · · · · ·	1	
VTR-21	Hexagon head bolt			·	3	
VTR-22	Rev for tools(270)(15)200	NN327573 90900	3			
VIR-22	Box for tools(370x615x330)	NN317596 90010	<u> </u>	ļ		
SOP-1	$\frac{Plug(\phi 17x \phi 21x30)}{Plug(\phi 17x \phi 21x30)}$		50	50	-	·
SOP-2	Pipe cleaner (L=1300)	••••	<u> </u>	1	-	
SOP-3	Spare parts & tool box	(550x1210x250)	$1^{-1}$	<u> </u>		 
SOP-4	<u>Spanner (14x140)</u>	•••	1	1		
D110-1	Shock wrench(M24X36mm)		1	1	-	
D110-2	Spanner(M14,M16,19MM,22MM)	A85131922	1	1	-	
D110-3	Tools box		1	1		
WGST-1	Wrench	PART No, 011968	1		1	\ <del>\</del>
WGST-2	Wrench serration	030943	† <u> </u>	·	1	
WGST-3	Driver	030950	1 1		1	
WGST-4	Inserter oil seal	030954	$+\frac{1}{1}$		1	
WGST-5	Driver dial pointer	031727	$+ \frac{1}{1}$		1	
WGST-6	Inserter oil seal		$+\frac{1}{1}$		1	<u></u>
WGST-7		031732	<u> </u>		<u> </u>	
	Driver	031734	┝╍╌┽╌			
WGST-8	Wrench	032042	<u>                                     </u>		1	
WGST-9	Key(.188" Hex short series)	188418	$\lfloor 1$		1	
WGST-10	Wrench 7/16 Socket	189792	1	-	1	
WGST-11	Hook straight scriber	189792	1		1	
WGST-12	Pliers snap ring	190497	1		1	
WGST-13	Kry(.078" Hex short series)	190522	1	-	1	<del></del>
WGST-14	Screw driver NO.2 phillips	8995-04	1-1-		1	******
MSDC-1	Hexagon wrench(B=5,6,8,)	Each	1-1-		<u> </u>	
MSDC-2	Spanner $(B=14, L=141)$		+		<u> </u>	······································
			<u> </u>	<u></u>	L	

						No.6
			Std	Q'ty	Q'ty	
	Item		<u>Q ty</u>	stocked	supply	Remarks
MSDC-3	Priming handle		1	1		
MD-9-1		B0391 00310Z SET				
MD-9-2	Filter ND 0.1(t=4,40 x 40)	B0391 00360Z			<b>_</b>	
• •	- Tools for auxiliaries -					
SJ4-1		PART No. 4071025	1	1		· · · · · · · · · · · · · · · · · · ·
SJ4-2	Sanner for oil outlet co.	4071025	1	<u> </u>		
SJ4-3	Spanner for bowl nut	4071001	1	1		
SJ4-4	Spanner for cap nut	3071011	Î	1		
SJ4-5	Lifting tool for bowl	4071023	1	1	-	
SJ4-6	Dismantling stand	4071020	1	1	-	
SJ4-7	Covering plate	3071037	- 1	1	-	
SJ4-8	Push bolt	3071025	1	1		
SJ4-9	Handle bar(¢16x200)	0771020	1	1		
SJ4-10	Jack	3071034	1	1		
<u>SJ4-11</u>	Bolt(M10X175)	3071008	2	<u> </u>	1	
SJ4-12	<u>Bolt(M12X125)</u>	3071009	2	1	<u> </u>	<u></u>
SJ4-13	Jack for valve cylinder	2071035	]	. 1	-	
014 14	(Push bolt M14X90 3pcs)	2071046		. 1		
SJ4-14	Push plate for jack	<u>4071029</u> 4071024	1	`		
<u>SJ4-15</u> SJ4-16	<u>Pin spanner(35¢x50¢)</u> Lift tool fo vertical shaft	4071010		<u>l</u> 1		
SJ4-10 SJ4-17	Jack for lower bearing	4071006		<u>_</u>		
SJ4-17	Square head set screw	2071042		<u> </u>		
SJ4-19	Box driver (M5)	4071021		<u> </u>		
SJ4-20	Hex. key $(M14)$	-10/10/1	1	1		
SJ4-21	Hex. key (M10)				Ī	
SJ4-22	Hex. key (M8)	<u></u>	Ī		1	
SJ4-23	Hook spanner(HW -105)	**	1	-	1	
SJ4-24	Push plate	4071017	1	1	-	
SJ4-25	Bolt(M10X100)	0771011	1	-	1	
SJ4-26	Spare box(400x400x300)		1		1	
SAV-1	Piston puller		1	<u> </u>	-	
SAV-2	Driver( - )		1	-	1	
SAV-3	Double ended spanner		1	1		
SAV-4	Piston pin puller		1	<u> </u>	1	
SAV-5	Monkey Wrench(sizu 200mm)	،		-	<u>I</u>	
SAV-6	Tool box Tube expander			<u>_</u>		
$\frac{ZFC-1}{ZFC-2}$	Tube expander handle	······································	1		<u> </u>	
ZFC-2 ZFC-3	Tube cleaning blash		<u>-</u>			
ZFC-4	Tube drawing ponch		1		1	
ZFC-5	Plug	na - , , , , , , , , , , , , , , , , , ,	10	······································	1	
ZFC-6	Tool box	··	1	-	1	
AIF-1	Scraper		2	1	1	
SJ4-51		PART No. 4081009	1	-	1	
SJ4-52	Gravity disc	PART No. 4081008	1	-	1	
SJ4-53	Gravity disc		1		1	
	<u>- Tool for generator -</u>	<b>1</b>				
STAG-1		A32-16508	1		1	
STAG-2		A32-16508-9	12		12	
STAG-3		<u>A32-16508-6</u>	16		16	
STAG-4		<u>A 3 2 - 1 6 5 0 8 - 7</u> A 3 2 - 1 6 5 0 8 - 8	16		<u>16</u> 2	
STAG-5 STAG-6		A32-10508-8 A42-14749 No.14	2			
LOIAU-0	Thickness gauge for air gap	N44-14140 NU+14	L		<u>+</u>	

			Std	Q'ty	Q'ty	<u>No.7</u>							
No.	Item			stocked		Remark							
STAG-7		A42-14749 No.6	1 1	-	1	NOW OF IT							
	Thickness gauge (No.150)	<u></u>	+		1-1								
$\frac{STAG-10}{STAG-10}$	Spscer	A42-20461	$+-\frac{1}{1}$		<u> </u>								
STAG-11	Steel rope(33.5¢ x12000)	A42-13667 No.20	1		1								
STAG-12	Steel rope( $25 \notin x4700$ )	A42-13667 No.21	2	<u> </u>	2								
	Steel rope( $25 \notin x2500$ )	A42-13667 No.31	2		2								
	- General equipments/tools		······································		1								
	for maitainance -	•		{									
K- 1	High_press. cleaninp pump		╋		1								
K- 2	Tool panel	۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰			1								
K- 3	Standard thermometer		1	1	1								
K- 4	Spare Rack / Palet	1987 Farrier - Martin State			1								
K- 5	Examinee for press. gauge				1	~							
K- 6	Cleaning tank	(3m3)			2								
K- 7	Oil jack	( 5ton )			$\frac{2}{4}$								
K- 8	Chain block	( 5ton )	1		3								
K- 9	Chain block	(2ton)			2								
<u>K-10</u>	Lever hoist	( 3ton )			2								
<u>K-11</u>	Wire rope	(¢12 x 200m )			1								
K-12	Sling wire	(¢20 x 10m)			4								
<u>K-13</u>	Sling wire	(¢12 x 4m)		· · · · · · · · · · · · · · · · · · ·	10								
K-14	Sling wire	(¢ 8 x 4 m)	<u> </u>		20	L							
K-15	Shackle	( <u>1</u> 1/2 B)	. <u> </u>		20								
<u>K-16</u>	Shackle	(1B)		 	40								
<u>K-17</u>	Wire clip	<u>(20¢)</u>	<u> </u>		10	<u> </u>							
<u>K-18</u>	Wire clip	(12 c)			25 25								
K-19	Wire clip	(8¢)	<u> </u>		25								
<u>K-20</u>	Wooden block	(300x150x1000)			10								
<u>K-21</u> K-22	Wooden sleeper	(100 x 300 x 2m)			10								
K-22 K-23	Cleaning tank	<u>(2600x1500x1000)</u>	- <b> </b>		<u> </u>								
$\frac{K-23}{K-24}$	Pipe wrench	<u>(600mm)</u>			<u> </u>								
<u>K-24</u> K-25	Pipe wrench	<u>(300mm)</u>	<u>  </u> _		1	<u></u>							
K-26	Oster type die stock Oster type die stock	$(1/4 \sim 1 1/4 B)$ $(1/2 \sim 2B)$			<u> </u>								
K-20 K-27	Pipe vise	( 1/2~20 )		·									
K-28	Disc grinder	7 150 -		[	1	····· ·							
K-29	Disc grinder	(150 c) (100 c)	╬		1								
K-30	Electric handy grinder			}	1								
K-31	Hammer drill	( 25mm )	╁┉───		<u> </u>								
K-34	High speed cutter				1								
K-35	Pipe bender	( Hydraulic 2B )	╞╼┉╴										
K-36	Pipe bender A.C. Arc welder	(400A)	<u>†</u>										
K-37	Cabyre cable	(¢38 x 20m)	<u> </u>		ļ	,, <b></b> ,	K-38	Gas cutter ( Torch )	(Incl. regulators)	)		[******	
K-39	Gas Hose	(20m)											
K-40	Welding mask		[		2								
<u>K-41</u>	Transformer												
K-42	Transformer	(3KVA 240V-100V)			11								
K-43	Transformer	(60KVA 414V-200V)			1								
K-44	Temporary distribution box	<u>(700mm x 900mm)</u>			1								
<u>K-45</u>	Projector				5								
K-46	Bulb for projector	( 300W )			20								
<u>K-47</u>	Pickling Tank	······											
<u>K-48</u>	Neutralization Tank												
<u>K-49</u>	Hand pump	······································			2								
K-56	Baroment			1	1								

						No.8
Na	Them		Std	Q'ty stocked	Q'ty	Bononka
No.	I tem	d Dm	HI LY	SLUCKEU		ARGUALKS
$\frac{K-50}{51}$	Flushing pump unit	SET		<u> </u>	<u> </u>	
<u>K-51</u> K-52	Stainless gauze wire	(10m)		·		·
	Vinyl hose	(¢50mm x 100m)			<u> </u>	
K-53	Rubber hose	(¢20mm x 100m)	-}	}	$\frac{1}{10}$	·
<u>K-54</u> K-55	Pressure gauge	( <u>0-20kg/cm2</u> ) (0~100°C)		<u></u>	10	
$\frac{K-55}{K-57}$	Thermometer Stop watch	( 0~100 C)			2	- <b></b>
K - 57	Inside miccrometer	······································		}	<u> </u>	
K - 50	Electric touch			<u> </u>	5	<u></u>
$\frac{K-39}{K-60}$	Oiler	( 600cc )			3	· <b> </b>
K-61	0il tray	(50 lit)			5	
K-62	Hemper rope	(¢ 18mm x 100m)	-[	}		
K-63	Flashlight		-		4	
K = 64	Water level		-}			
K - 65	Driver set		• <b> </b>		1	1
K-66	Driver		+		l	·
K-67	Socket wrench set		-}		1	·]
K-68	Hexagon wrench				6	
K-69	Monkey wrench				3	
K-70	Flat cold chisel	(10 x 140)			2	<u>}</u> -
K-71	Flat cold chisel	( 16 x 180 )			2	
K-72	Flat cold chisel	(22 x 200)	1		2	
K-73	Water punp pliere		1		2	
K-74	Tip saw				2	
K-75	Scissor	۵۰ و و د د د د د د د د د د د می بود در وی د و و د د د می و بارد و و د د د می و در و و د د د می و و د د د د د د	+		2	
K-76	Saw set	(20 pcs / set )			2	
K-77	Grease gun				1	
K-78	Copper hammer				1	
K-79	File set	(4 pcs / set )			1	
K-80	Тар	( M6 )			1	
K-81	Тар	( M10_)			1	
K-82	Тар	(M12)			1	
k-83	Тар	( M16_)			1	
<u>K-84</u>	Тар	( <u>M20</u> )			<u> </u>	
<u>K-85</u>	Steel files	<u>( L = 300mm )</u>	ļ		4	
<u>K-86</u>	Vinyl co ver	<u>(10m x 10m )</u>	<u> </u>		10	
<u>K-87</u>	Vinyl hose	( 20 <u>0</u> m )				
<u>K-88</u>	Drill stand					
<u>K-89</u>	Drill edge set	<u>(8 - 25mm)</u>				
<u>K-90</u>	Drill edge drill	<u>(2 - 18mm)</u>	<b> </b>		<u>_</u>	
$\frac{K-91}{K-90}$	(Concrete drill)	(¢18mm)	<u> </u> i		<u> </u>	
K-92	(Concrete drill)	(¢22nm)			<u> </u>	
<u>K-93</u>	Eye bolt (M10/M12/M16/M20/M	24/M30 ) Each			6	
K-94	Valve for pressure	(1/2 BXJIS 10k )			20	
V 05	neasurement	(1/2 B x 200L)	·[		40	
<u>K-95</u> K-96	Nipple				20	
$\frac{K-90}{K-97}$	Tee Elbow	(1/2 B) (1/2 B)			20	
<u>n-91</u>	T PINAM		I	L	<u> </u>	L/

## Appendix XII References

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No.	Title	Remarks
1	Single Line Diagram of Banjul Power System	Drawing
2	11 kV Underground Cable Network & Transformer in Banjol	•1
3	Map of The Gambia (1/250,000)	Мар
4	Map of Banjul (1/50,000)	
5	Map of Kombo Peninsula (1/10,000)	81
6	Map of Coastal Strip (1/10,000)	
7	Map of Banjul Street Plan & Public Building (1/50,000)	н
8	Electoral Constituency Map	¢1
9	Staff Appraisal Report	Report
	The Gambia, Urban Management and Development Project (WB)	
10	GUC Twelfth Annual Report	11
11	GUC Thirteenth Annual Report	**
12	GUC Fourteenth Annual Report	**
1.3	GUC Fifteenth Annual Report	
14	GUC Sixteenth Annual Report	**
15	Population and Housing Census 1983 (MEPID)	
16	Development Co-operation in The Gambia, 1987 Report (UNDP)	**
17	The Gambia Development Issues and Prospects (WB)	11
18	Second Five Year Plan (MEPID)	**
19	Midterm Review of the Second Five Year Plan (MEPID)	**
20	Report and Recommendation for Structural Adjustment Program, Aug. 1986 (WB)	
21	The Economic Recovery Program (MEPID)	14
22	Survey of Employment, Earnings and Hours of Work, Dec. 1986 (MEPID)	
23	A Naturalist's Guide to The Gambia	ti
24	DANIDA Project, Vol. 1, General Conditions	н
25	DANIDA Project, Vol. 2, Power Station	*1
26	DANIDA Project, Vol. 3, Interconnector	t <del>i</del>
27	DANIDA Project, Vol. 4, Fuel Depot	
28	DANIDA Project, Vol. 5, Schedules	14
29	Construction Schedule of DANIDA Project	Drawing
30	Check List of Spare Parts and Tools (in Kotu P/S)	Report

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