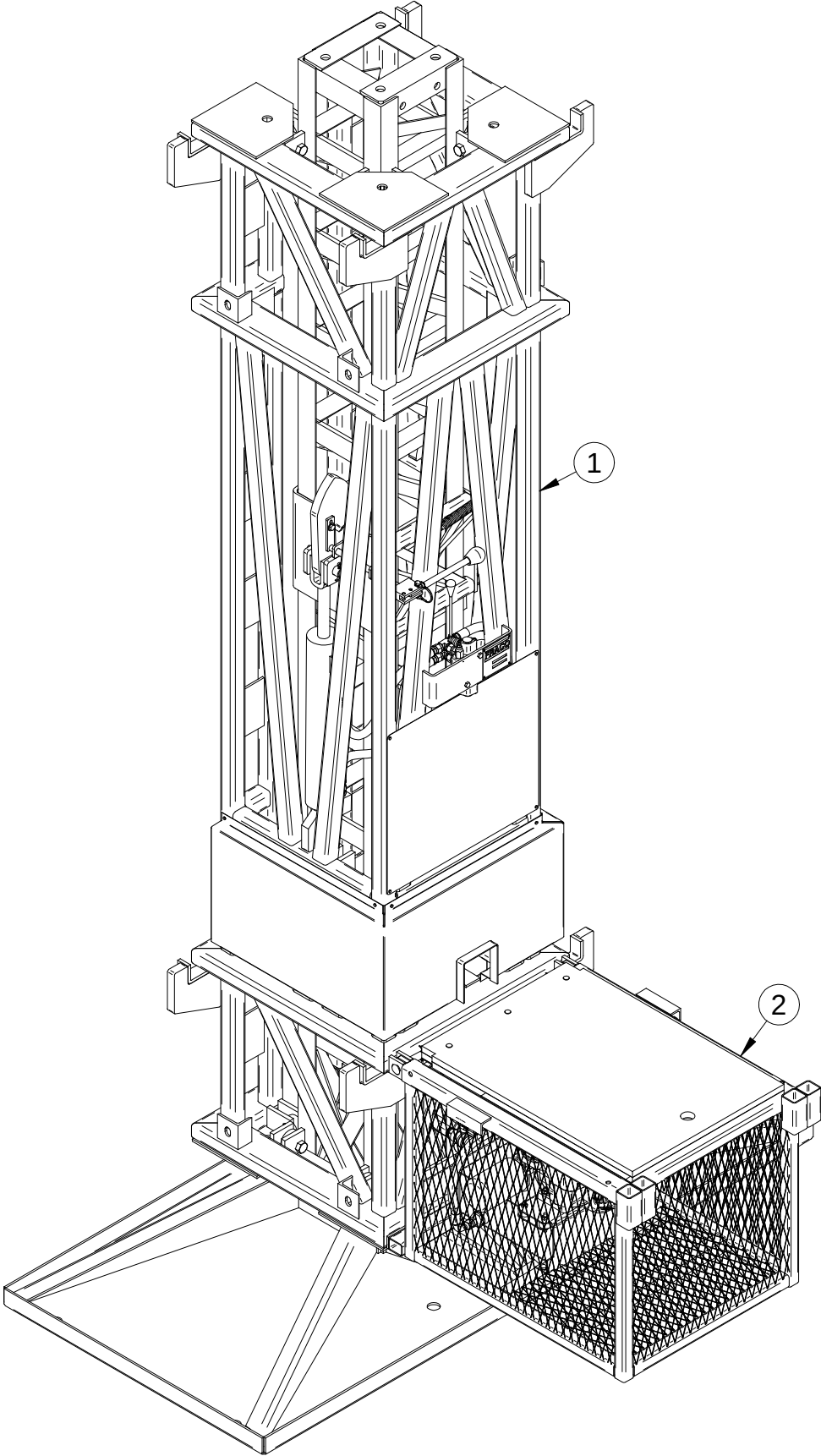
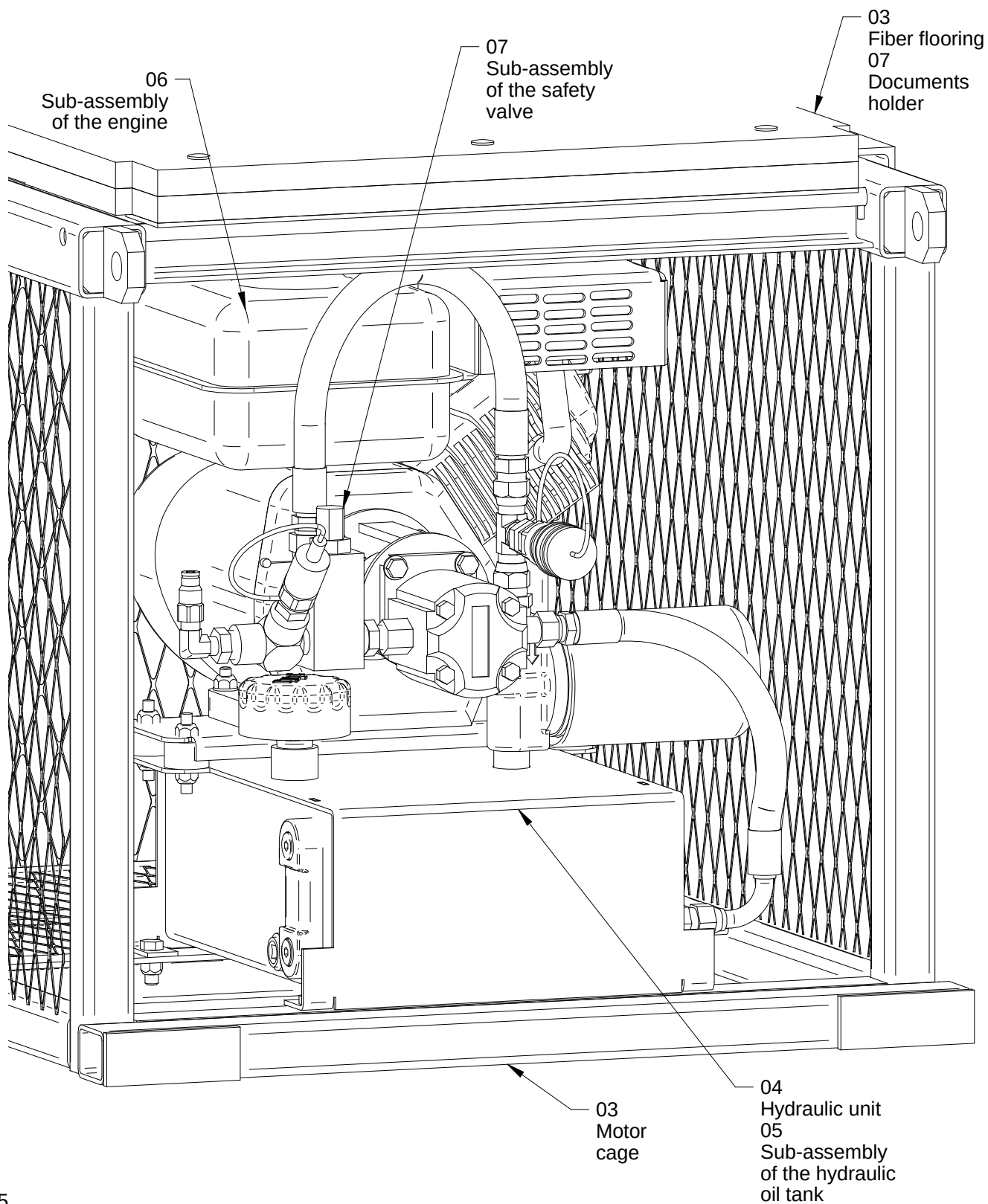


Elevating unit with the hydraulic unit



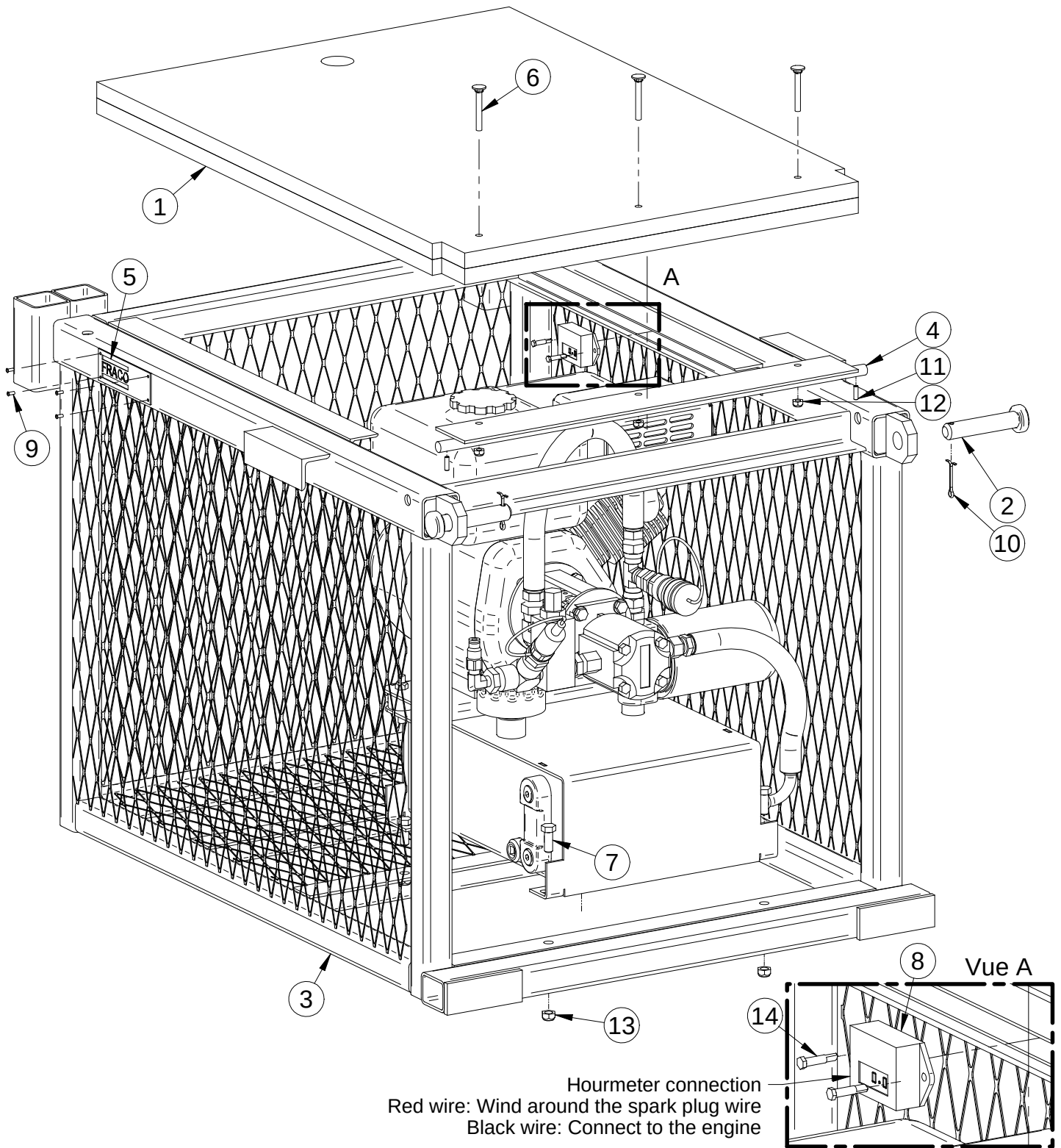
#	Qty	Code	Description	#	Qty	Code	Description
1	1	10010013	FRSM-8000 elevating Unit	2	1	11010014	FRUH-8000 hydraulic unit

Table of contents - hydraulic unit



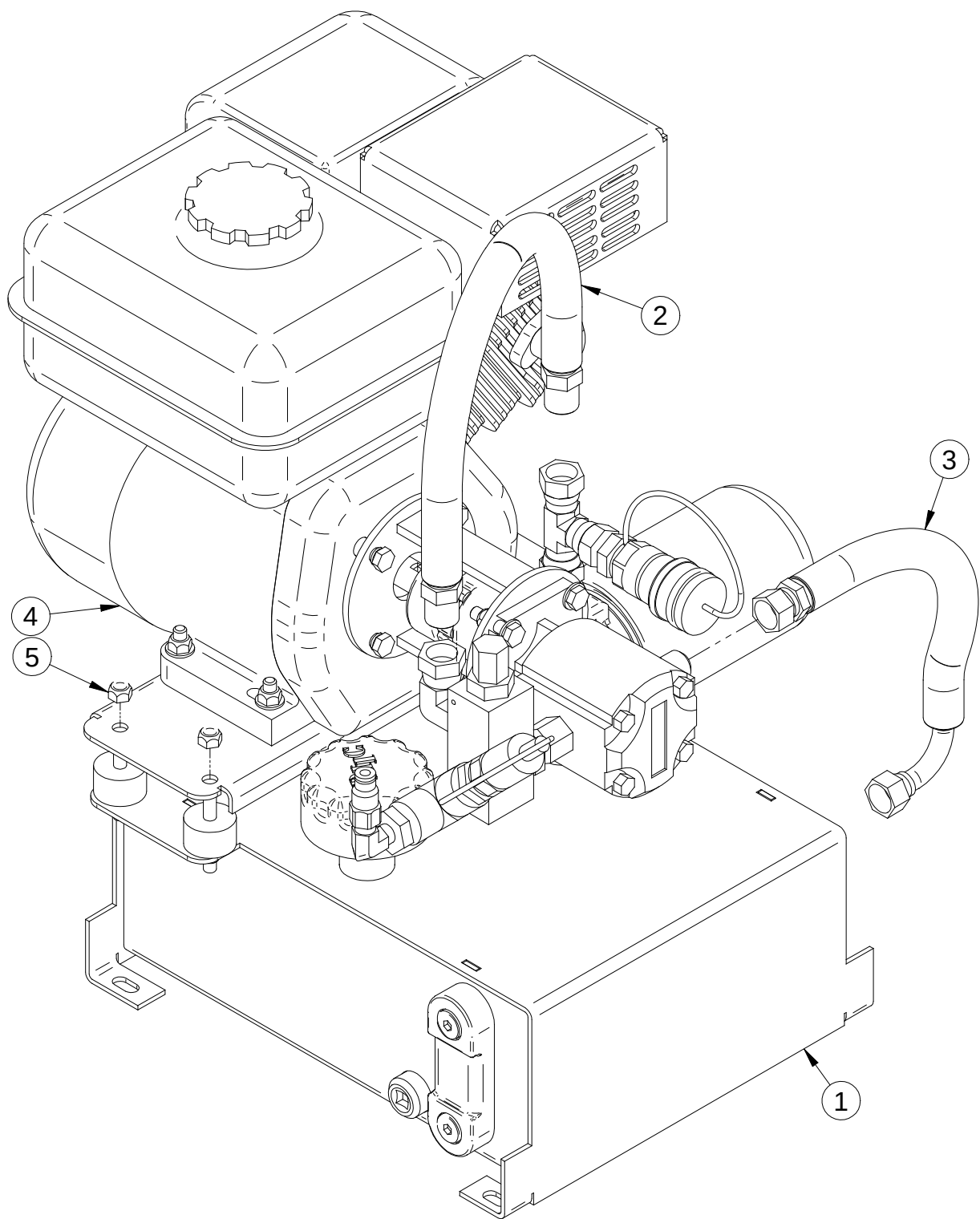
14-15
Troubleshooting guide
16-17
Inspection form
19
Parts list

Motor cage



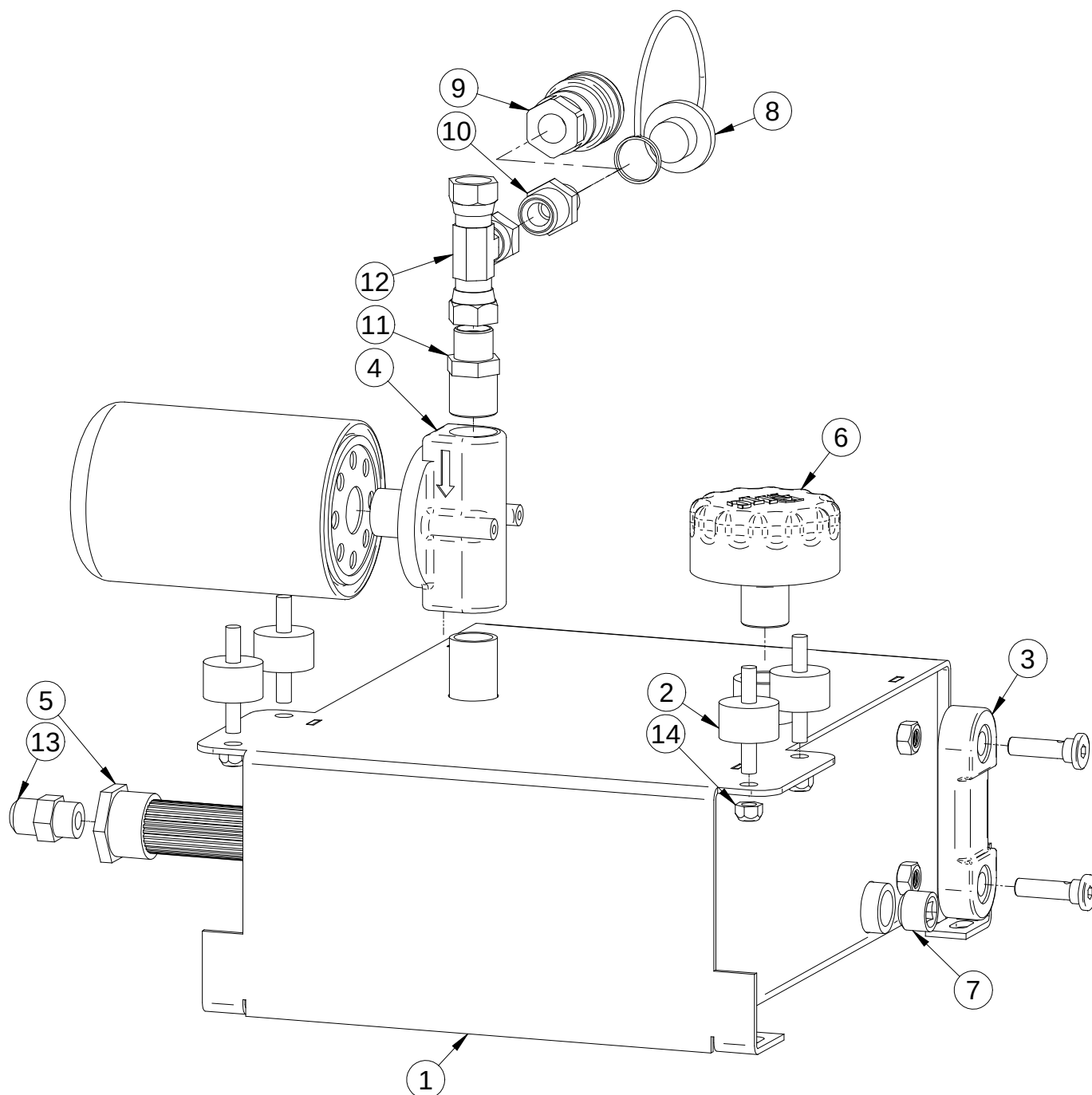
#	Qty	Code	Description	#	Qty	Code	Description
1	1	16010109	Flooring (1-1/2" x 2' 2" x 31-1/8")	8	1	ELE-1006	Hourmeter
2	2	25490055	Pin (3/4" dia. x 4-3/16")	9	4	FOD-5130	Rivet 1/8" aluminium C.R 5/16 (pop)
3	1	28490878	Motor cage FRUH-8000	10	2	GOU-1120	Cotter pin (1/8" x 2")
4	1	28491352	Hinge 2-1/2" x 22-3/4"	11	2	GOU-3110	Spring pin 3/16" x 5/8" (stainless steel)
5	1	30050086	FRUH-8000 "serial number plate" -eng./french	12	3	NYL-2010	Nylon lock nut 1/4"-20unc
6	3	BOC-3020	Carriage bolt 1/4"-20unc x 2" gr5 zinc	13	4	NYL-2020	Nylon lock nut 3/8"-16unc
7	4	BOZ-7114	Bolt 3/8"-16unc x 1" gr5 zinc	14	2	VIS-8815	Self drilling screw #12 x 7/8"

Hydraulic unit



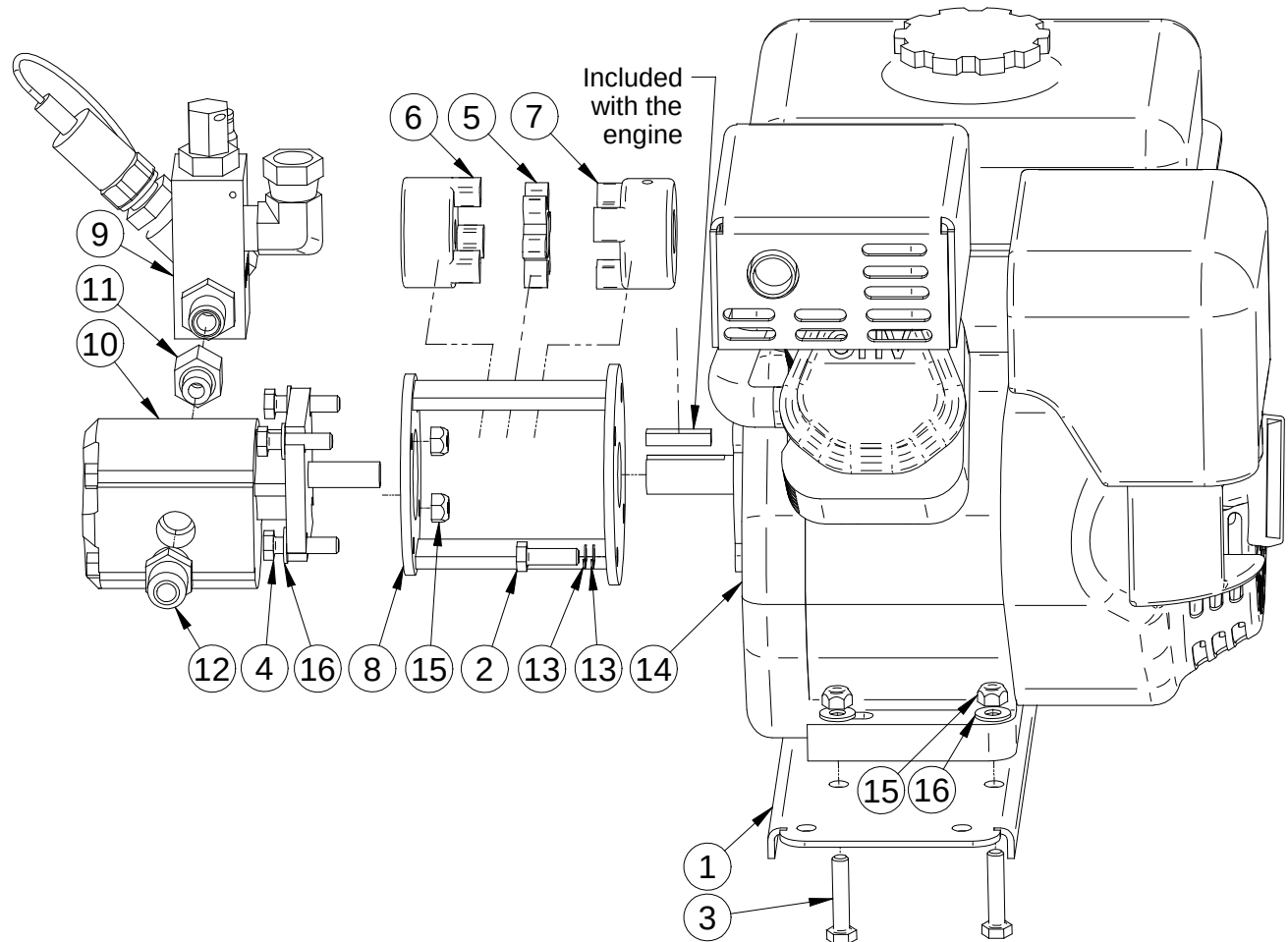
#	Qty	Code	Description	#	Qty	Code	Description
1	1	28490889	Hydraulic oil tank 8000	4	1	MEM-1030	Engine 5.5 Hp Honda oil alert
2	1	29490150	Hose 1/2" x 18" NPT-1/2-M / NPT-1/2-M	5	4	NYL-2015	Nylon lock nut 5/16"-18unc
3	1	29490161	Hose 1/2" x 14-1/4" JIC-1/2-F / 90-JIC-1/2-F				

Sub-assembly of the hydraulic tank



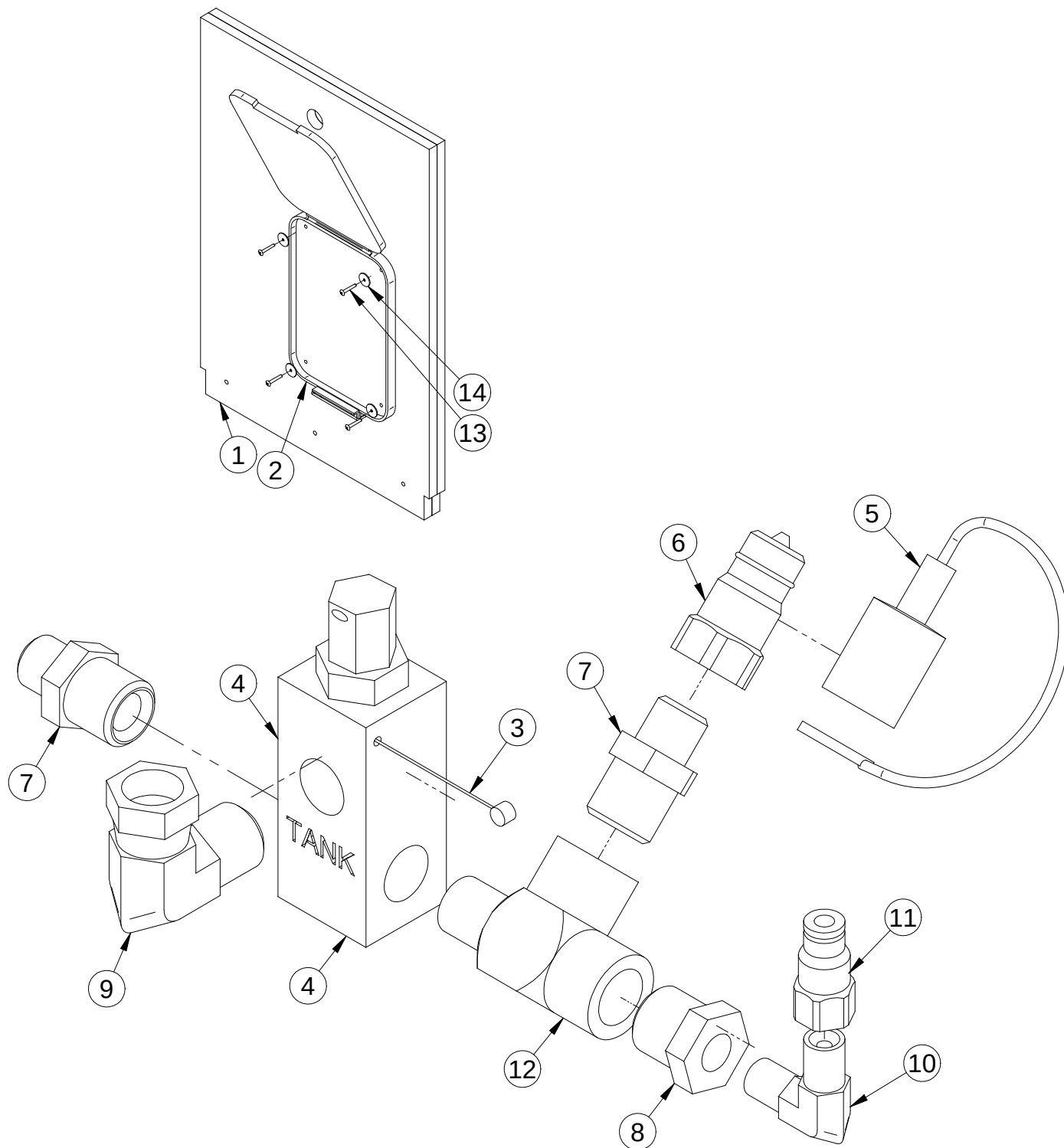
#	Qty	Code	Description	#	Qty	Code	Description
1	1	28490889	Hydraulic oil tank 8000	8	1	HYR-5005	Cap plug 3/8-M
2	4	FOD-5120	Antivibration mounting A-30/20	9	1	HYR-5012	Quick connect NPT-3/8-F
3	1	HYE-3045	Oil level and temperature gauge 3"	10	1	HYR-5014	Hyd. fitting NPT-3/8-M / NPT-1/2-M
4	1	HYE-3060	Adaptor & filter NPT-3/4 10 microns	11	1	HYR-5015	Hyd. fitting NPT-1/2-M / NPT-3/4-M
5	1	HYE-3070	Filter 1" x 1/2"	12	1	HYR-5035	Hyd. fitting NPT-1/2-F(3) / T swivel
6	1	HYE-3115	Cap strainer	13	1	HYR-5050	Hyd. fitting JIC-1/2-M / NPT-1/2-M
7	1	HYE-3330	Magnetic connector 1/2"	14	4	NYL-2015	Nylon lock nut 5/16"-18unc

Sub-assembly of the engine



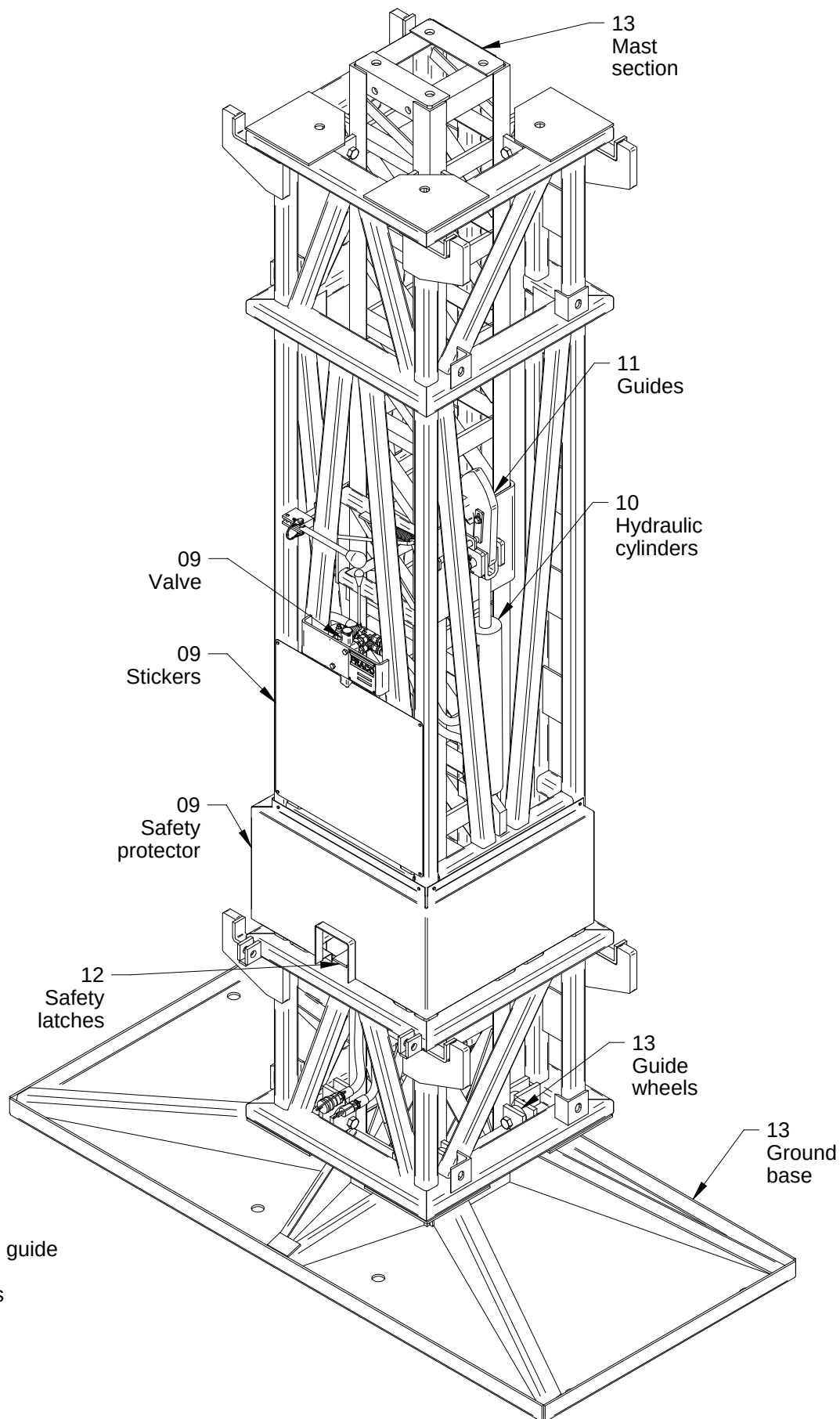
#	Qty	Code	Description	#	Qty	Code	Description
1	1	28014847	Engine support 8000	9	1	HYE-3085	Safety valve
2	4	BOZ-7065	Bolt 5/16"-24unc x 1" gr5 zinc	10	1	HYE-3185	Hydraulic pump 1,6 gpm
3	4	BOZ-7070	Bolt 5/16"-18unc x 1-1/2" gr5 zinc	11	1	HYR-5021	Hyd. fitting NPT-3/8-F / ORB-3/8-M
4	4	BOZ-7075	Bolt 5/16"-18unc x 1-1/4" gr5 zinc	12	1	HYR-5026	Hyd. fitting JIC-1/2-M / ORB-1/2-M
5	1	HYE-3015	Insert urethane serie L095	13	8	LOZ-5015	Lock washer 5/16" zinc
6	1	HYE-3025	Half coupling 1/2" serie L095	14	1	MEM-1030	Engine 5.5 Hp Honda oil alert
7	1	HYE-3030	Half coupling 3/4" serie L095	15	8	NYL-2015	Nylon lock nut 5/16"-18unc
8	1	HYE-3056	Engine/pump steel adaptor 4-1/4" x 4-1/2"	16	8	WAZ-7017	Washer 5/16" SAE zinc

Sub-assembly of the safety valve and of the flooring

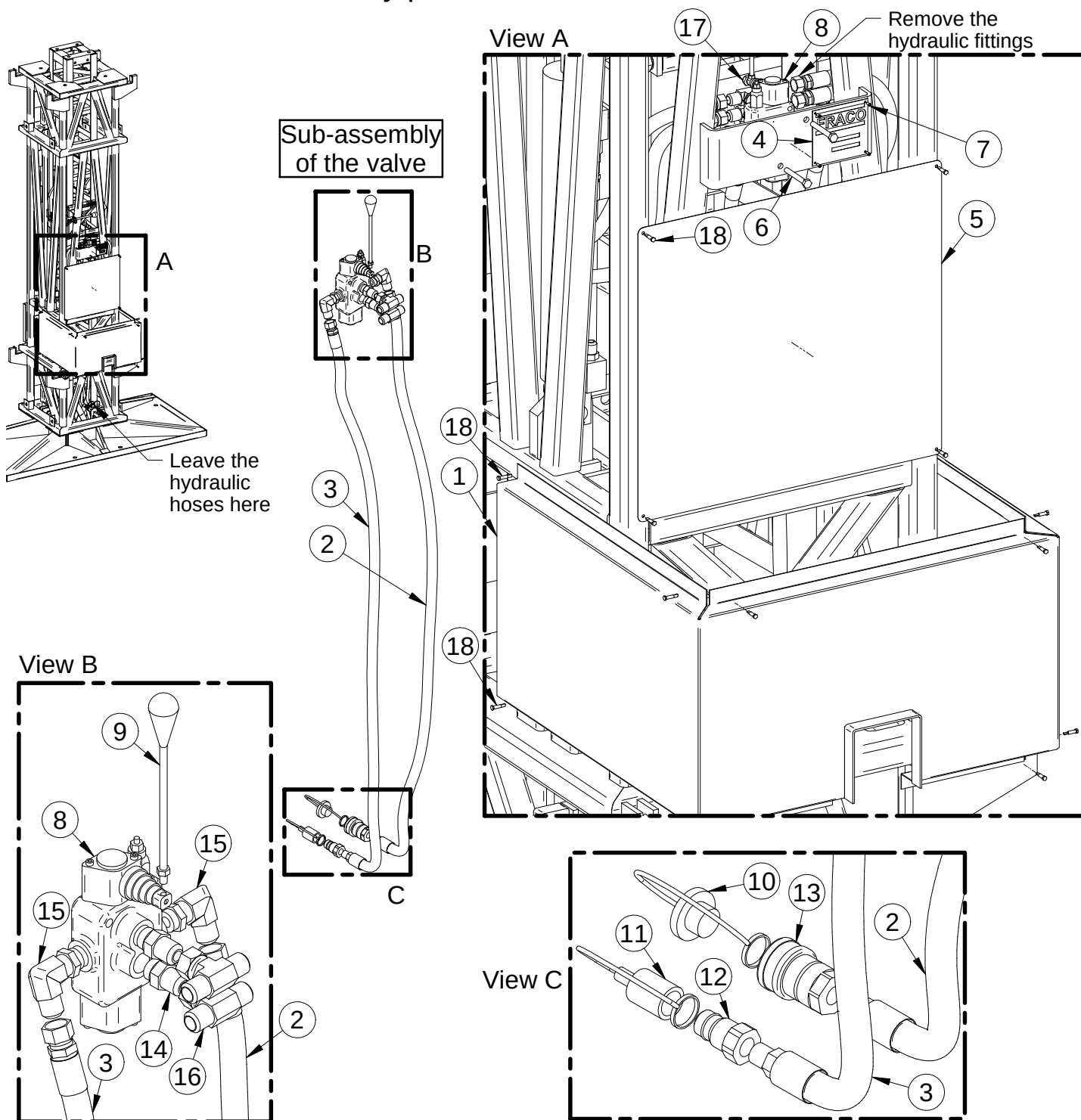


#	Qty	Code	Description	#	Qty	Code	Description
1	1	16010109	Flooring (1-1/2" x 2' 2" x 31-1/8")	9	1	HYR-5040	Hyd. fitting NPT-1/2-F / NPT-1/2-M / 90 / swivel
2	1	FOD-5250	Documents holder	10	1	HYR-5080	Hyd. fitting NPT-1/4-M / NPT-1/4-M / 90
3	1	FOD-9103	Lead Seal	11	1	HYR-5142	Quick connect NPT-1/4-M
4	1	HYE-3085	Safety valve	12	1	HYR-5150	Hyd. fitting NPT-1/2-F(2) / NPT-1/2-M / T
5	1	HYR-5010	Cap plug 3/8-F	13	4	VIS-7230	Wood screw # 8 - 1-1/4" round head - square drive
6	1	HYR-5011	Quick connect NPT-3/8-M	14	4	WAZ-7006	Washer 3/16" x 1" zinc.
7	2	HYR-5014	Hyd. fitting NPT-3/8-M / NPT-1/2-M				
8	1	HYR-5016	Hyd. fitting NPT-1/4-F / NPT-1/2-M				

Table of contents - Elevating unit

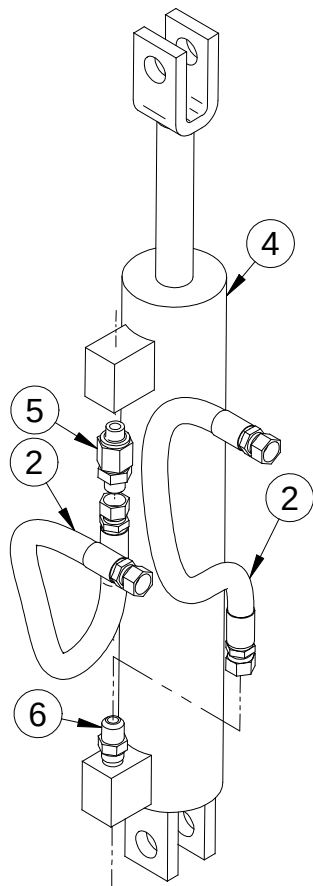


Safety protector, stickers and valve

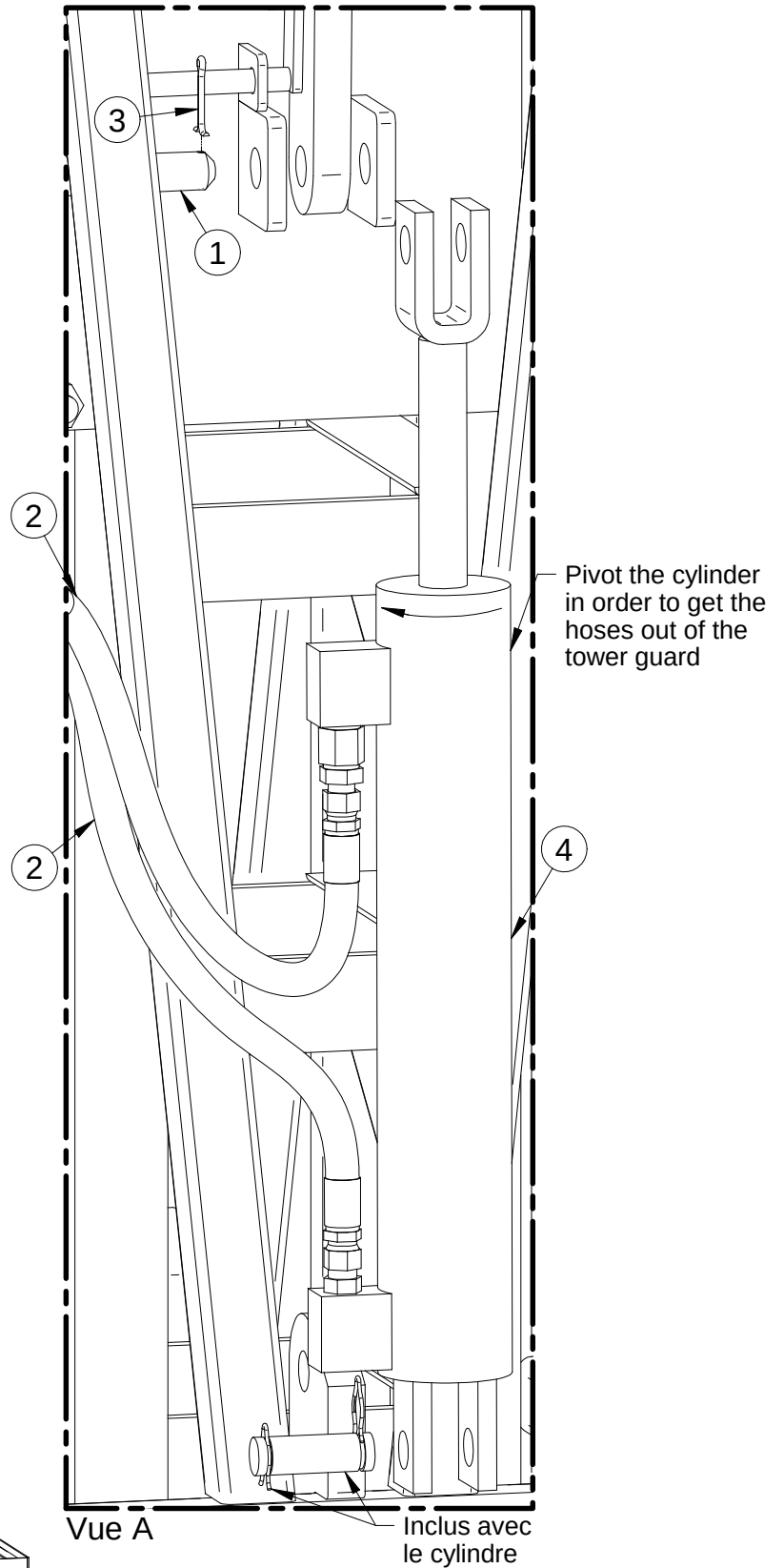
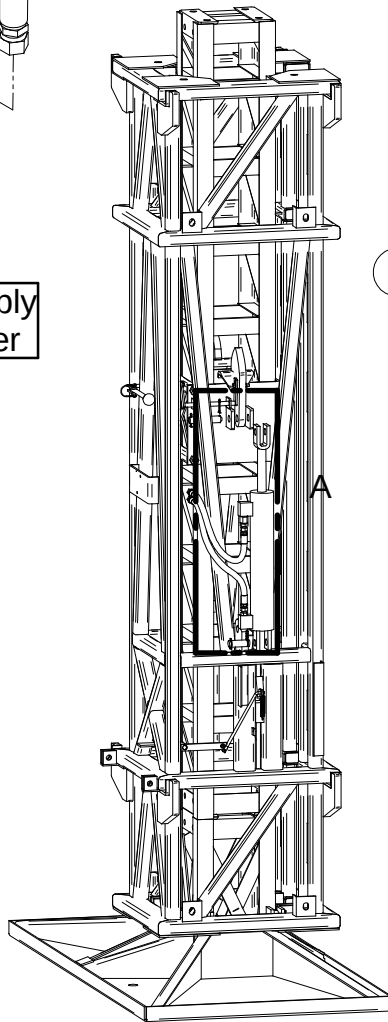


#	Qty	Code	Description	#	Qty	Code	Description
1	1	28490047	Safety protector	10	1	HYR-5005	Cap plug 3/8-M
2	1	29490194	Hose 1/2" x 61" JIC-1/2-F / NPT-3/8-M	11	1	HYR-5010	Cap plug 3/8-F
3	1	29490206	Hose 1/2" x 59" JIC-1/2-F / NPT-3/8-M	12	1	HYR-5011	Quick connect NPT-3/8-M
4	1	30030039	FRSM-8000 "serial number plate" -eng./french/spa.	13	1	HYR-5012	Quick connect NPT-3/8-F
5	1	30050097	FRSM-8000 "load distribution and warning" sticker -eng./spa.	14	1	HYR-5026	Hyd. fitting JIC-1/2-M / ORB-1/2-M
6	2	BOZ-7095	Bolt 5/16"-18unc x 2-1/2" gr5 zinc	15	2	HYR-5030	Hyd. fitting JIC-1/2-M / ORB-1/2-M / 90
7	4	FOD-5130	Rivet 1/8" aluminium C.R 5/16 (pop)	16	1	HYR-5032	Hyd. fitting JIC-1/2-F / JIC-1/2-M / T swivel (M-F-M)
8	1	HYE-3170	Single section valve	17	2	NYL-2015	Nylon lock nut 5/16"-18unc
9	1	HYE-3255	Valve handle	18	16	VIS-8815	Self drilling screw #12 x 7/8"

Hydraulic cylinders



Sub-assembly
of a cylinder

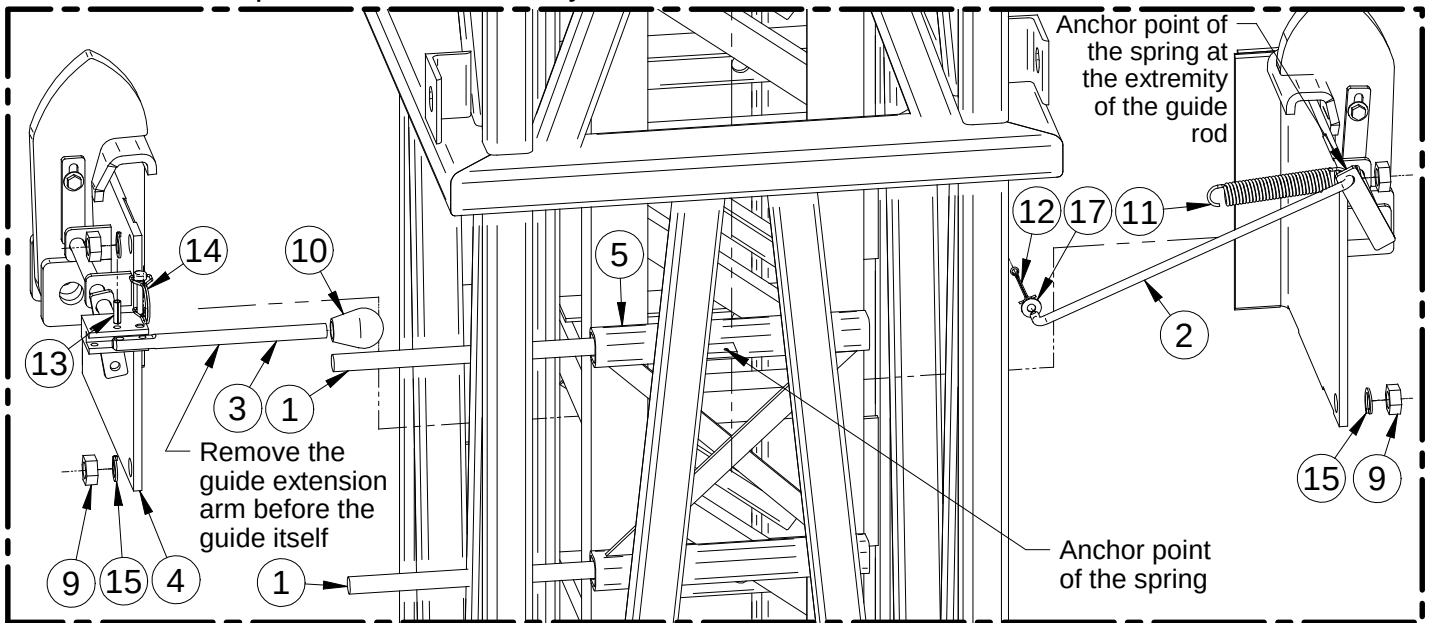


#	Qty	Code	Description	#	Qty	Code	Description
1	2	28070096	Axle 1" x 5"	4	2	HYC-2011	Cylinder 3" x 16" x 1-1/4" (26" CC)
2	4	29490172	Hose 1/2" x 24" JIC-1/2-F / JIC-1/2-F	5	2	HYE-3380	Check valve
3	4	GOU-1125	Cotter pin (3/16" x 2")	6	2	HYR-5026	Hyd. fitting JIC-1/2-M / ORB-1/2-M

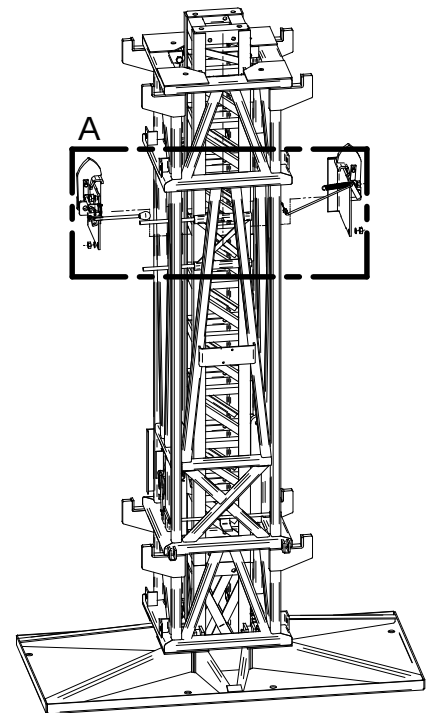
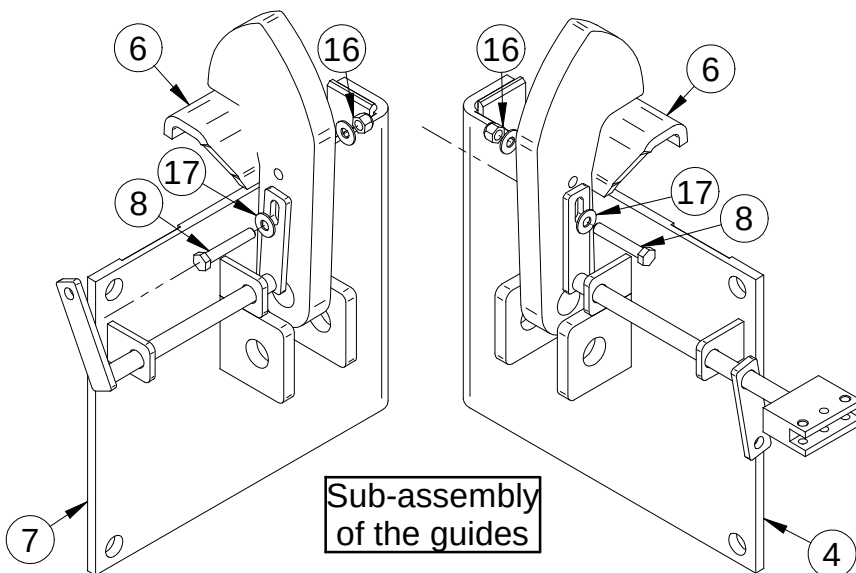
Guides

Steps:

- 1- Remove the spring, the rod and the guide arm then remove the nuts on the thread rods
- 2- Remove the spacer then leave the jaws hooked to the mast section

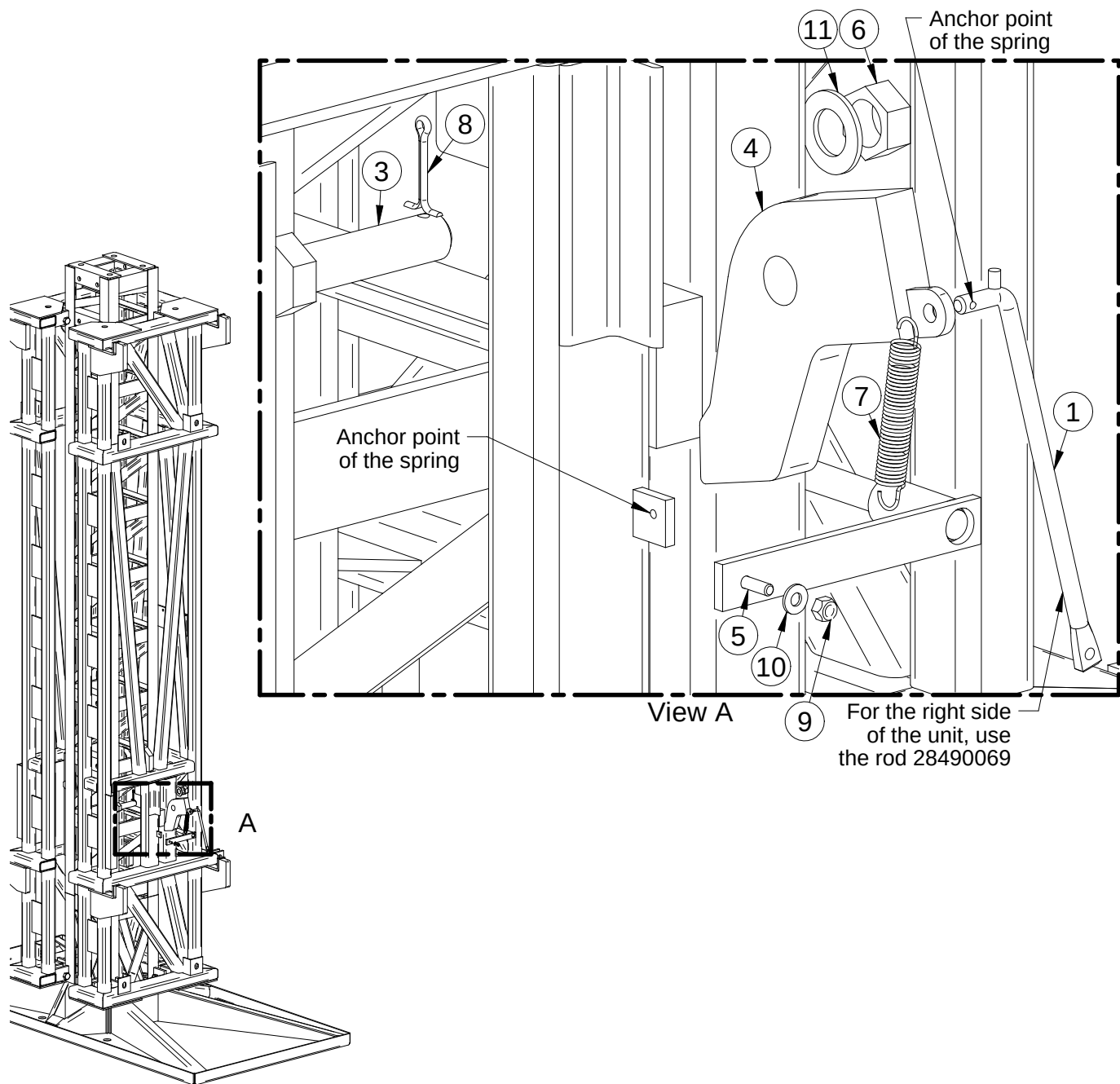


View A



#	Qty	Code	Description	#	Qty	Code	Description
1	2	28070074	Thread rod 8000 guide 3/4" x 15-1/4"	10	1	FOD-5190	Ball handle (5/8")
2	1	28070085	Guide rod 15-1/4"	11	1	FOR-5005	Spring 1" x 6"
3	1	28070456	Guide extension arm	12	1	GOU-1120	Cotter pin (1/8" x 2")
4	1	28490812	Left guide for jaw	13	1	GOU-3225	Spring pin 5/16" x 1"
5	1	28490823	Spacer	14	1	GOU-5030	Lock pin 1/4" x 1-3/8"
6	2	28490845	Jaw	15	2	LOZ-5050	Lock washer 3/4" zinc
7	1	28491431	Right guide for jaw	16	2	NYL-2020	Nylon lock nut 3/8"-16unc
8	2	BOZ-7125	Bolt 3/8"-16unc x 2-1/4" gr5 zinc	17	3	WAZ-7021	Washer 3/8" SAE zinc
9	2	ECA-1025	Nut 3/4"-10unc A325 galvanized				

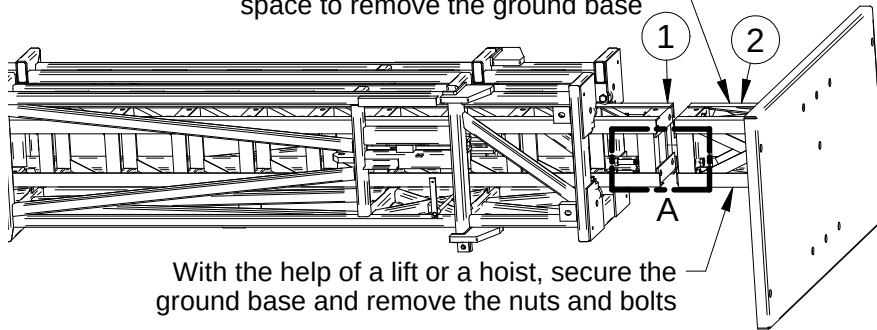
Safety latches



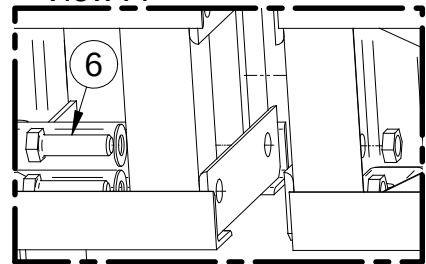
#	Qty	Code	Description	#	Qty	Code	Description
1	1	28490058	Safety rod 9-1/2"	7	2	FOR-5015	Spring 5/8" x 4"
2	1	28490069	Safety rod 10-3/4"	8	2	GOU-1125	Cotter pin (3/16" x 2")
3	2	28490799	Bolt 1" x 4" (drilled)	9	2	NYL-2010	Nylon lock nut 1/4"-20unc
4	2	28490834	Safety latch 8000	10	2	WAZ-7011	Washer 1/4" SAE zinc
5	2	BOZ-7015	Bolt 1/4"-20unc x 1" gr5 zinc	11	2	WAZ-7071	Washer 1" SAE zinc
6	2	ECZ-7095	Nut 1"-8unc gr5 zinc				

Guide wheel and mast section

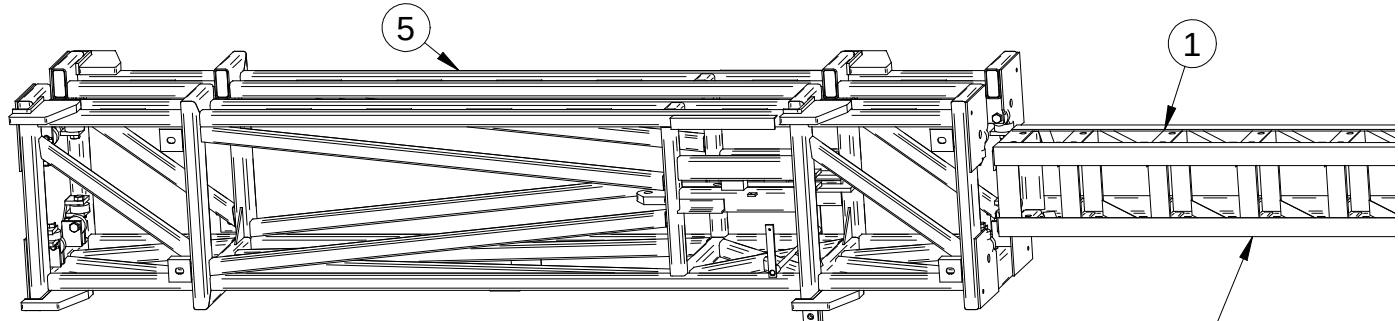
Once the tower guard is in horizontal position, pull the mast section in order to have enough space to remove the ground base



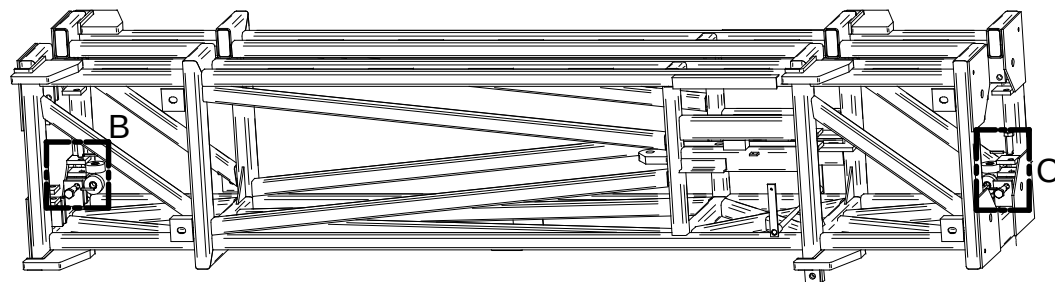
View A



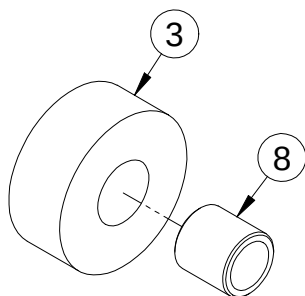
With the help of a lift or a hoist, secure the ground base and remove the nuts and bolts



With the help of a lift or a hoist, remove the mast section

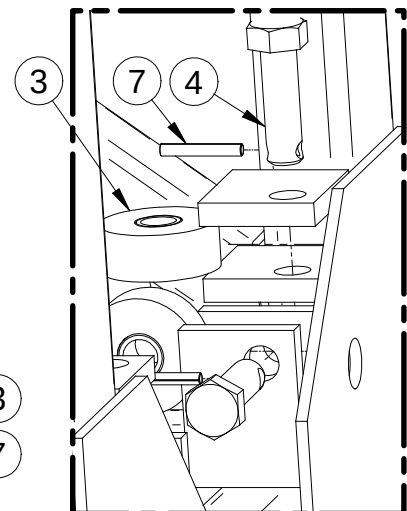
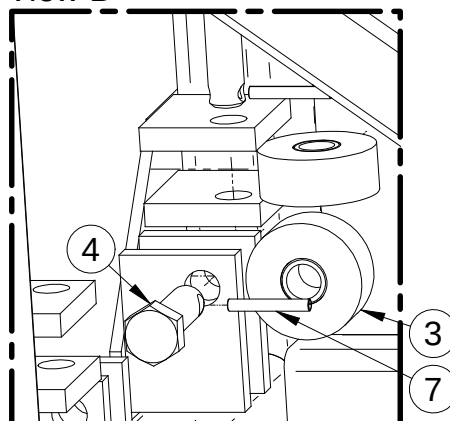


View C



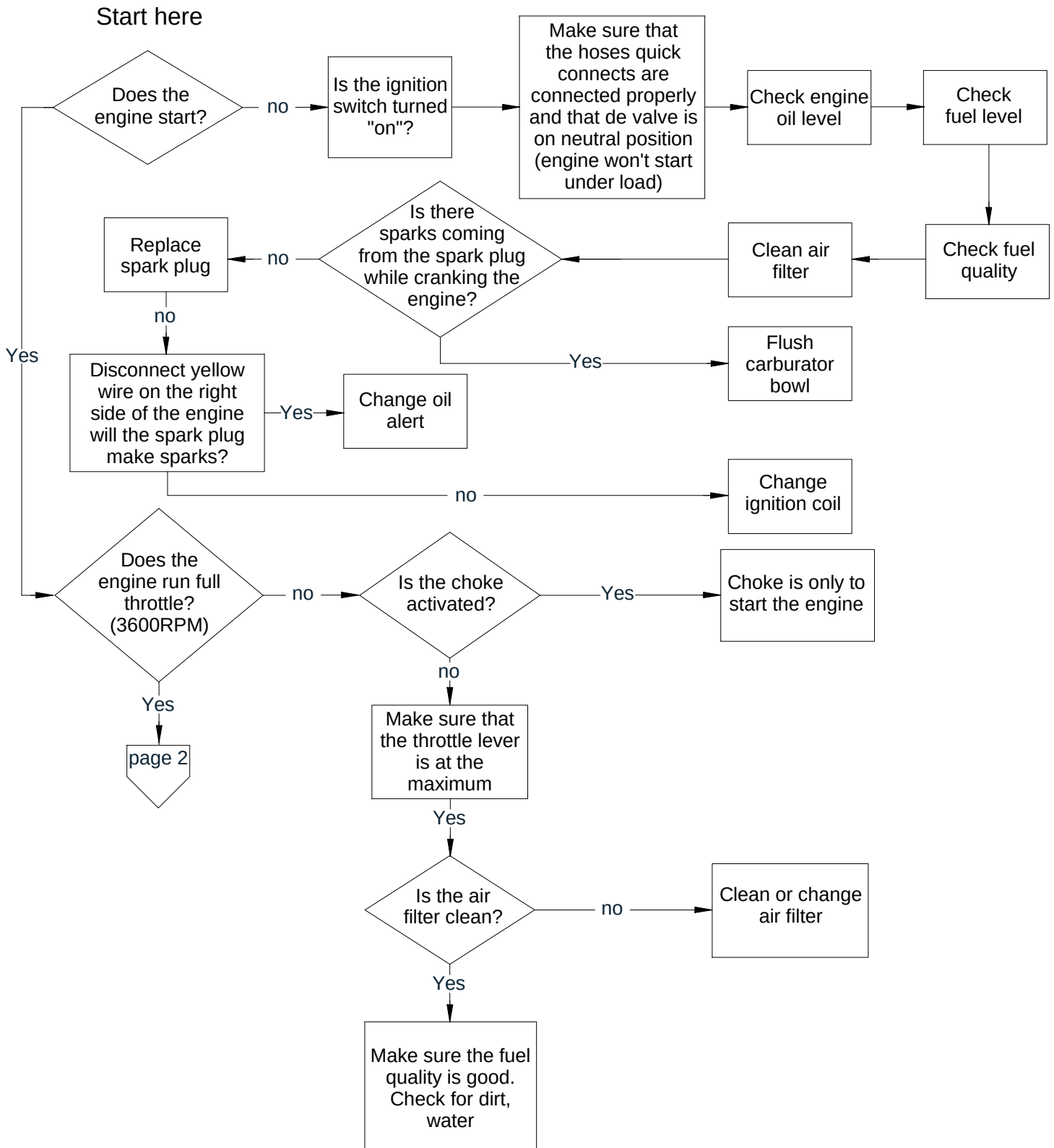
Sub-assembly of a guide wheel

View B



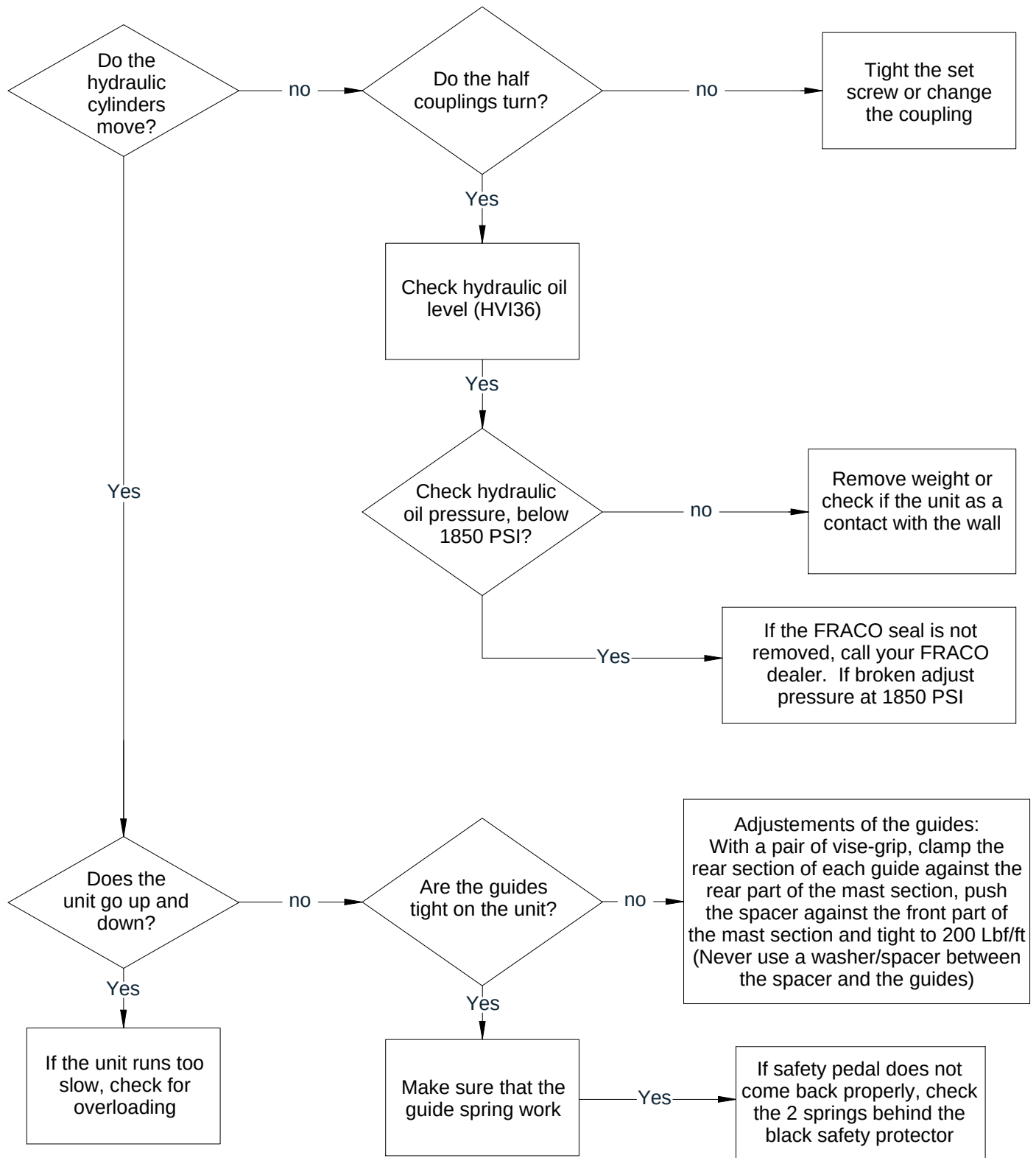
#	Qty	Code	Description	#	Qty	Code	Description
1	1	13010016	Mast section (12" x 12" x 10' 0")	5	1	28490801	Tower Guard 8000
2	1	14010017	Ground base for 12" x 12" mast (3' 2" x 6' 8")	6	4	BOA-2050	Bolt 7/8"-9unc x 3" A325 galv. assembled
3	16	28020079	Guide wheel 1" x ID 1" x OD 2-1/2"	7	16	GOU-3240	Spring pin 1/4" x 1-3/4"
4	16	28490777	Bolt 3/4" x 2-1/2" (drilled)	8	16	HYE-3137	Sleeve bearing 3/4" x 1" x 1"

Troubleshooting Guide - Part 1



Troubleshooting Guide - Part 2

Page 1



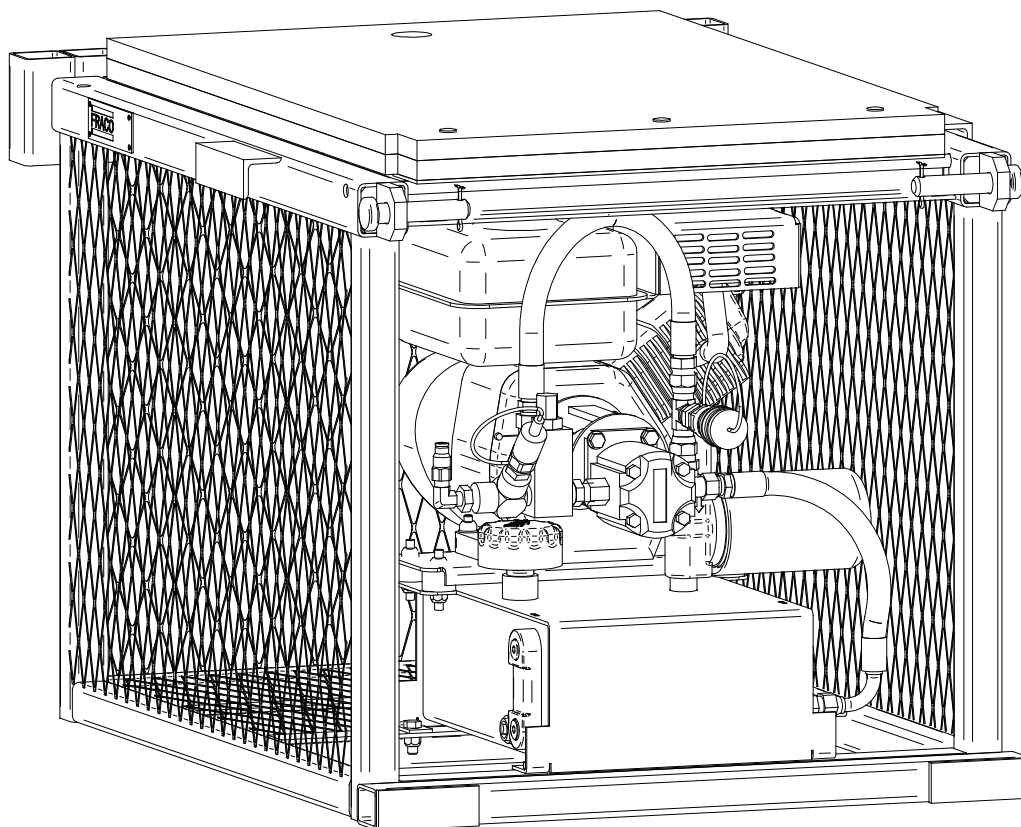
 F-250A (02)- Inspection for FRSM-8000		Serial number:	
		Branch Number:	
		Date: YYYY / MM / DD	
Complete with abbreviation (N/A) when an inspection point is not applicable.		Hour meter:	
Maintenance points	Expired	Verify	Corrected
1- Technical Information			
1,1- Verify all the service bulletins associated to unit,before any service inspection.	Maintenance		
3- Hydraulic			
3,1- Verify installation & condition of protection plugs. See Note 5	Daily		
3,4- Verify the hydraulic cylinders condition or other (leaks).	50 hours / 90 days		
3,5- Quick connect couplers are working and are not leaking.	50 hours / 90 days		
3,8- Hydraulic hoses are not damaged.	50 hours / 90 days		
3,13- Verify the manual hydraulic valve (s) installation & condition (leaks).	50 hours / 90 days		
3,9- Hydraulic hoses are tightened properly.	100 hrs /180 days		
5- Mechanical			
5,2- Visual inspection of the ground base structure and mast.	Daily		
5,21- Verify if pins,bolts, cutter pins and clips are in place.	50 hours / 90 days		
5,25- Verify protection panels installation & functioning.	50 hours / 90 days		
5,9- Verify the mast rollers, do they turn, are they worn out .	200 hrs /1 yrs		
5,10- Verify the four bolts of the mast/base (Impact 5 seconds). See note 8	200 hrs /1 yrs		
6- Operation Test			
6,1- Verify the machine for liquid leaks.	Daily		
6,28- Sit the unit on the safety latches or on the base.	Maintenance		
6,26- Verify functioning of safety pedal mechanism.	50 hours / 90 days		
6,27- Verify functioning of jaws & guides , are they working at the same time.	50 hours / 90 days		
6,29- Verify jaws return springs.	50 hours / 90 days		
6,11C- Main relief valve adjustment 2000 psi +50-0.	100 hrs /180 days		
7- General			
7,1- Punch the four sequential numbers on the structure.	If Apply		
7,2- Put a visible inspection tag on the unit.	If Apply		
7,3- Clean machine <u>Don't wash the bearings & electrical panel with a pressure washer</u>	If Apply		
7,4A- Install all stickers according to the client linguistic request.	If Apply		
7,11- Apply paint touch up.	If Apply		
7,4- Verify installation & condition of all stickers and replace them if you can't read them.	Daily		
7,6- Remove rubbish on the unit.	Daily		
7,15- Close the hydraulic cylinder(s) (After inspection).	Daily		
7,7- Visual Inspection of the machine frame & weld.	50 hours / 90 days		
7,8- The serial plate is not damaged.	50 hours / 90 days		
7,9- Make sure a lead cable is installed on relief valve (If Apply).	100 hrs /180 days		
7,12- Apply a rust protection if the unit is ship overseas.	FRACO		

**F-251A (02)- Inspection FRUH-8000****Serial number:****Branch Number:****Date:** YYYY / MM / DD*Complete with abbreviation (N/A) when an inspection point is not applicable.***Hour meter:**

Maintenance points	Expired	Verify	Corrected
1- Technical Information			
1,1- Verify all the service bulletins associated to unit,before any service inspection.	Maintenance		
2- Motor			
2,1- Verify motor oil quantity and quality. (the motor should not be overfilled)	Daily		
2,2- The engine full throttle must be adjusted at 3600 rpm +50 -0.	Daily		
2,5- Clean or replace the air filter.	50 hours / 90 days		
2,6- Lubricate the air filter foam.	50 hours / 90 days		
2,7- Verify the fuel filter and replace if it's necessary.	50 hours / 90 days		
2,8- Verify the fuel tank for dirt, water or any other contaminant.	50 hours / 90 days		
2,10- Verify engine mounts installation & condition.	50 hours / 90 days		
2,11- Verify the condition and installation of the hourmeter (Tiny tach). See Note 2	50 hours / 90 days		
2,12- The engine must run properly at idle speed 1800 rpm +-150.	50 hours / 90 days		
2,17- Verify the fuel hoses.	50 hours /90 days		
2,19- Verify the throttle condition.	50 hours / 90 days		
2,22- Verify recoil starter (Pull Cord).	50 hours / 90 days		
2,33- Verify if no gaskets are leaking (valve cover) & check PVC valve condition.	50 hours / 90 day		
2,3- Change motor oil. See Note 1	100 hrs /180 days		
2,13- Replace spark plugs & adjust (Gap 0.028-0.031 in).	100 hrs /180 days		
2,14- Verify valves adjustment <u>intake</u> : 0.006 ± 0.001 in <u>exhaust</u> : 0.008 ± 0.001 in.	100 hrs /180 days		
2,15- Verify the carburetor springs for stretched or damaged one.	100 hrs /180 days		
2,16- Pump & engine couplers are tight and in good condition.	200 hrs / 1Year		
2,25A- Cylinder compression test (85-121 psi @ 600 rpm) reference Honda shop manual.	200 hrs / 1Year		
2,26- Remove the front engine cover to make sure there is no debris.	400 hrs /2 yrs		
3- Hydraulic			
3,1- Verify installation & condition of protection plugs. See Note 5	Daily		
3,2- Verify the quantity and the quality of hydraulic oil.(use SAE10 or ISO 32).	Daily		
3,5- Quick connect couplers are working and are not leaking.	50 hours / 90 days		
3,6- Clean the hydraulic tank breather.	50 hours / 90 days		
3,7- Verify the hydraulic oil filter assembly.	50 hours / 90 days		
3,8- Hydraulic hoses are not damaged.	50 hours / 90 days		
3,9- Hydraulic hoses are tightened properly.	100 hrs /180 days		
3,10- Replace the hydraulic oil filter and write the machine hours on it.(use paint pencil).	200 hrs /1 yrs		
3,11- Replace the hydraulic oil (use SAE10 or ISO 32).	400 hrs /2 yrs		
3,12- Hydraulic tank is fixed properly the four bolts are in place and tight.	400 hrs /2 yrs		
4- Electrical			
4,16- The main key switch is working properly and not damaged.	Daily		
5- Mechanical			
5,20- Verify motor hood condition & functioning.	50 hours / 90 days		
5,21- Verify if pins,bolts, cutter pins and clips are in place.	50 hours / 90 days		
6- Operation Test			
6,1- Verify the machine for liquid leaks.	Daily		
6,11D- Main relief valve adjustement 1850 psi +50-0.	100 hrs /180 days		

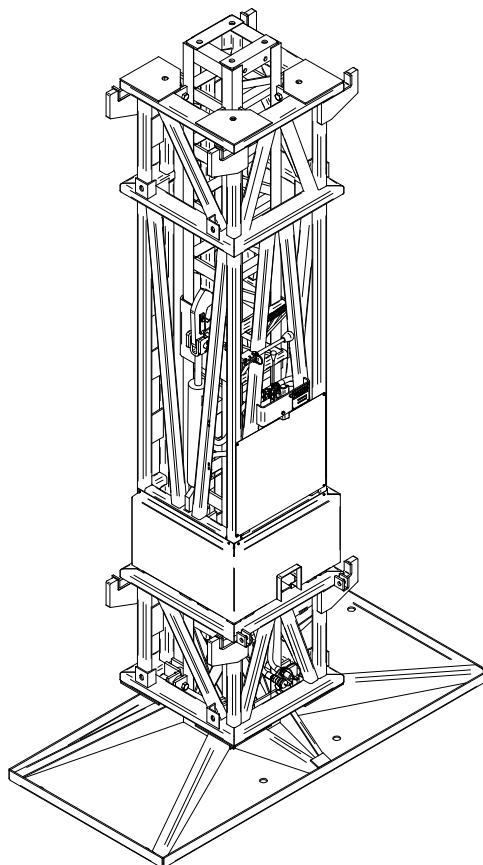
Parts list

#	Qty	Code	Description	#	Qty	Code	Description
1	1	16010109	Flooring (1-1/2" x 2' 2" x 31-1/8")	29	1	HYE-3085	Safety valve
2	2	25490055	Pin (3/4" dia. x 4-3/16")	30	1	HYE-3115	Cap strainer
3	1	28014847	Engine support 8000	31	1	HYE-3185	Hydraulic pump 1,6 gpm
4	1	28490878	Motor cage FRUH-8000	32	1	HYE-3330	Magnetic connector 1/2"
5	1	28490889	Hydraulic oil tank 8000	33	1	HYR-5005	Cap plug 3/8-M
6	1	28491352	Hinge 2-1/2" x 22-3/4"	34	1	HYR-5010	Cap plug 3/8-F
7	1	29490150	Hose 1/2" x 18" NPT-1/2-M / NPT-1/2-M	35	1	HYR-5011	Quick connect NPT-3/8-M
8	1	29490161	Hose 1/2" x 14-1/4" JIC-1/2-F / 90-JIC-1/2-F	36	1	HYR-5012	Quick connect NPT-3/8-F
9	1	30050086	FRUH-8000 "serial number plate" -eng./french	37	3	HYR-5014	Hyd. fitting NPT-3/8-M / NPT-1/2-M
10	3	BOC-3020	Carriage bolt 1/4"-20unc x 2" gr5 zinc	38	1	HYR-5015	Hyd. fitting NPT-1/2-M / NPT-3/4-M
11	4	BOZ-7065	Bolt 5/16"-24unf x 1" gr5 zinc	39	1	HYR-5016	Hyd. fitting NPT-1/4-F / NPT-1/2-M
12	4	BOZ-7070	Bolt 5/16"-18unc x 1-1/2" gr5 zinc	40	1	HYR-5021	Hyd. fitting NPT-3/8-F / ORB-3/8-M
13	4	BOZ-7075	Bolt 5/16"-18unc x 1-1/4" gr5 zinc	41	1	HYR-5026	Hyd. fitting JIC-1/2-M / ORB-1/2-M
14	4	BOZ-7114	Bolt 3/8"-16unc x 1" gr5 zinc	42	1	HYR-5035	Hyd. fitting NPT-1/2-F(3) / T swivel
15	1	ELE-1006	Hourmeter	43	1	HYR-5040	Hyd. fitting NPT-1/2-F / NPT-1/2-M / 90 / swivel
16	4	FOD-5120	Antivibration mounting A-30/20	44	1	HYR-5050	Hyd. fitting JIC-1/2-M / NPT-1/2-M
17	4	FOD-5130	Rivet 1/8" aluminium C.R 5/16 (pop)	45	1	HYR-5080	Hyd. fitting NPT-1/4-M / NPT-1/4-M / 90
18	1	FOD-5250	Documents holder	46	1	HYR-5142	Quick connect NPT-1/4-M
19	1	FOD-9103	Lead Seal	47	1	HYR-5150	Hyd. fitting NPT-1/2-F(2) / NPT-1/2-M / T
20	2	GOU-1120	Cotter pin (1/8" x 2")	48	8	LOZ-5015	Lock washer 5/16" zinc
21	2	GOU-3110	Spring pin 3/16" x 5/8" (stainless steel)	49	1	MEM-1030	Engine 5.5 Hp Honda oil alert
22	1	HYE-3015	Insert urethane serie L095	50	3	NYL-2010	Nylon lock nut 1/4"-20unc
23	1	HYE-3025	Half coupling 1/2" serie L095	51	16	NYL-2015	Nylon lock nut 5/16"-18unc
24	1	HYE-3030	Half coupling 3/4" serie L095	52	4	NYL-2020	Nylon lock nut 3/8"-16unc
25	1	HYE-3045	Oil level and temperature gauge 3"	53	4	VIS-7230	Wood screw # 8 - 1-1/4" round head - square drive
26	1	HYE-3056	Engine/pump steel adaptor 4-1/4" x 4-1/2"	54	2	VIS-8815	Self drilling screw #12 x 7/8"
27	1	HYE-3060	Adaptor & filter NPT-3/4 10 microns	55	4	WAZ-7006	Washer 3/16" x 1" zinc.
28	1	HYE-3070	Filter 1" x 1/2"	56	8	WAZ-7017	Washer 5/16" SAE zinc



Parts list

#	Qty	Code	Description	#	Qty	Code	Description
1	1	13010016	Mast section (12" x 12" x 10' 0")	29	2	ECZ-7095	Nut 1"-8unc gr5 zinc
2	1	14010017	Ground base for 12" x 12" mast (3' 2" x 6' 8")	30	4	FOD-5130	Rivet 1/8" aluminium C.R 5/16 (pop)
3	16	28020079	Guide wheel 1" x ID 1" x OD 2-1/2"	31	1	FOD-5190	Ball handle (5/8")
4	2	28070074	Thread rod 8000 guide 3/4" x 15-1/4"	32	1	FOR-5005	Spring 1" x 6"
5	1	28070085	Guide rod 15-1/4"	33	2	FOR-5015	Spring 5/8" x 4"
6	2	28070096	Axle 1" x 5"	34	1	GOU-1120	Cotter pin (1/8" x 2")
7	1	28070456	Guide extension arm	35	6	GOU-1125	Cotter pin (3/16" x 2")
8	1	28490047	Safety protector	36	1	GOU-3225	Spring pin 5/16" x 1"
9	1	28490058	Safety rod 9-1/2"	37	16	GOU-3240	Spring pin 1/4" x 1-3/4"
10	1	28490069	Safety rod 10-3/4"	38	1	GOU-5030	Lock pin 1/4" x 1-3/8"
11	16	28490777	Bolt 3/4" x 2-1/2" (drilled)	39	2	HYC-2011	Cylinder 3" x 16" x 1-1/4" (26" CC)
12	2	28490799	Bolt 1" x 4" (drilled)	40	16	HYE-3137	Sleeve bearing 3/4" x 1" x 1"
13	1	28490801	Tower Guard 8000	41	1	HYE-3170	Single section valve
14	1	28490812	Left guide for jaw	42	1	HYE-3255	Valve handle
15	1	28490823	Spacer	43	2	HYE-3380	Check valve
16	2	28490834	Safety latch 8000	44	1	HYR-5005	Cap plug 3/8-M
17	2	28490845	Jaw	45	1	HYR-5010	Cap plug 3/8-F
18	1	28491431	Right guide for jaw	46	1	HYR-5011	Quick connect NPT-3/8-M
19	4	29490172	Hose 1/2" x 24" JIC-1/2-F / JIC-1/2-F	47	1	HYR-5012	Quick connect NPT-3/8-F
20	1	29490194	Hose 1/2" x 61" JIC-1/2-F / NPT-3/8-M	48	4	HYR-5026	Hyd. fitting JIC-1/2-M / ORB-1/2-M
21	1	29490206	Hose 1/2" x 59" JIC-1/2-F / NPT-3/8-M	49	2	HYR-5030	Hyd. fitting JIC-1/2-M / ORB-1/2-M / 90
22	1	30030039	FRSM-8000 "serial number plate" -eng./french/spa.	50	2	HYR-5032	Hyd. fitting JIC-1/2-F / JIC-1/2-M / T swivel (M-F-M)
23	1	30050097	FRSM-8000 "load distribution and warning" sticker -eng./spa.	51	4	LOZ-5050	Lock washer 3/4" zinc
24	4	BOA-2050	Bolt 7/8"-9unc x 3" A325 galv. assembled	52	2	NYL-2010	Nylon lock nut 1/4"-20unc
25	2	BOZ-7015	Bolt 1/4"-20unc x 1" gr5 zinc	53	2	NYL-2015	Nylon lock nut 5/16"-18unc
26	2	BOZ-7095	Bolt 5/16"-18unc x 2-1/2" gr5 zinc	54	2	NYL-2020	Nylon lock nut 3/8"-16unc
27	2	BOZ-7125	Bolt 3/8"-16unc x 2-1/4" gr5 zinc	55	16	VIS-8815	Self drilling screw #12 x 7/8"
28	4	ECA-1025	Nut 3/4"-10unc A325 galvanized	56	2	WAZ-7011	Washer 1/4" SAE zinc
				57	5	WAZ-7021	Washer 3/8" SAE zinc
				58	2	WAZ-7071	Washer 1" SAE zinc



Unit Specifications

Engine:

Model:	5.5 HP, Honda GX 160 K1 QX6
Oil change:	Every 100 hours / 6 month of use
Oil type:	<u>SAE 10W-30</u> , API SF / SG / SJ for general use
Oil quantity:	0.6 Liters (0.63 Qt US)
Spark plug:	<u>NGK BPR6ES</u> or Denso W20EPR-U
Gap:	0.70 - 0.80 mm (0,028" - 0,031")
Valve adjustments:	Intake: 0.15 ± 0.02 mm (0.006" $\pm$ 0.001") (Cold) Exhaust: 0.20 ± 0.02 mm (0.008" $\pm$ 0.001") (Cold)
Carburetor:	<u>Full throttle</u> : 3600 RPM's <u>Idle</u> : 1400 ± 150 RPM's
Fuel quantity:	3.6 Liters (0.95 Gal US)
Consumption:	230 g / HP Hour

Hydraulic:

Oil filter change:	Every 200 Hours of use or every year
Oil change:	Every 400 Hours of use or every 2 years
Filter:	<u>10 microns</u> , Gresen K22001, NAPA 1551
Oil type:	HVI36, ISO32, SAE10
Oil quantity:	8 Liters (2.12 Gal US)