

The Superior Air - Jacketed Hot Rubber Melters
(Propane, Diesel, & Electric Heat Systems Available)

From the Innovators of Rubber Master Technology

A&A MELTERS

WARRANTY

A&A STEEL ENTERPRISES of Canada warrants its product to be free from defects in material and workmanship under normal use and service for a period of one year from date of end-user purchase. Our obligation shall be limited to the repair or replacement of any parts at our option, F.O.B. our factory. Defect of a part or parts of a unit which can be replaced shall not be construed to indicate that the unit is defective. This warranty shall not apply to any part which has been subject to accident, alteration, abuse, misuse, damage or flood, fire or act of god.

A&A STEEL ENTERPRISES of Canada shall not be liable for service, labour or transportation charges or for damages or delay caused by defective material or workmanship or for personal injuries or damages to property caused directly or indirectly by any A&A STEEL product or by its use or operation, or for work done or repairs effected by others. In the case of components purchased by A&A STEEL ENTERPRISES such as controls, gear reduction, motor, pump, etc., the warranty the manufacturer will be extended to the purchaser in lieu of any warranty by the company.

The above warranties are in lieu of all other warranties expressed or implied. No representative or other person is authorised or permitted to make any warranty or assume for the company any liability not strictly in accordance with the foregoing.

Our A&A STEEL melters are designed for long, trouble free life under a wide variety of application conditions with a minimum of maintenance, however, the purchaser and or user should read the maintenance and operation manual before firing and operating any equipment.

A & A STEEL ENTERPRISES LTD.
220 Myrnam St. Coquitlam, B.C. Canada V3K 6G4

WARRANTY REGISTRATION CARD

MODEL #:

DATE PURCHASED:

SERIAL NUMBER:

CUSTOMER NAME:

TELEPHONE/FAX

ADDRESS:

CITY:

STATE:

ZIP:

DEALER:

TELEPHONE/FAX:

A&A Melters - Model - A-40

IMPORTANT NOTE: TO OPERATE YOUR A&A STEEL MELTER SAFELY AND EFFICIENTLY, FOLLOW THESE OPERATING INSTRUCTIONS. FAILURE TO COMPLY MAY RESULT IN VOIDING WARRANTY AND MAY CAUSE SERIOUS INJURIES.

A) INITIAL START UP:

When melter has been purchased and is ready to be placed into service, an overall check should be performed to ensure that the melter is in working order as described in INSPECTION AND FAMILIARIZATION below.

IT IS **VERY IMPORTANT** that the melter is connected to a LIQUID DRAW PROPANE GAS cylinder for which it was designed to operate! If connected to a vapour draw propane tank, incorrect heating characteristics will result.

B) INSPECTION AND FAMILIARIZATION:

1. Read operator's manual for the engine, gear reduction unit and this manual thoroughly to become familiar with the operation of your A&A Steel melter.
2. Ensure all moving components are clear of any objects and are free to move (including interior of melter).
3. Check all mounting bolts are tight, drive belt is correctly aligned (gas engine only) and cotter pins and keys are in place.
4. Grease all moving parts, check engine and reduction gear oil levels. Use manufacturers recommended oil, add if required.
5. Ensure all guards are in place and securely mounted
6. Gas engine only. Engage and disengage Agitator Engaging Lever and Locking Pin to familiarize yourself with their operation (lock in the disengaged position).

C) START UP

1. Move melter to a suitable, level working surface and lock caster wheels. Open exhaust rain cover.
2. Gas engine only. Follow engine manufacturer's procedures and start engine while Engaging Lever is in the disengaged position. Allow sufficient time for warm up. NOTE: The Agitation Rack may move even though disengaged. This is normal as there may be little or no resistance from the Agitation Rack to prevent it from "free-wheeling".

CAUTION: Do **not** wear loose clothing near moving belts or other moving parts.

Once the melter has been inspected and connected to Liquid Propane Gas, the melter is ready to be charged with the first load of material.

IT IS VERY IMPORTANT that the material is of small enough size to allow it to be in direct contact with the bottom surface. This allows the heat to be directly transferred to the material in the least amount of time to avoid any excessive heat build-up. When the material has started to melt into a liquid, it will transfer the heat to the rest of the material very quickly.

3. Follow recommended propane safety precautions and propane torch light up procedures, adjust outlet pressure to 10 psi and light torch. Insert lit torch into Torch Holder. Open exhaust stack

4. Adjust torch to ensure correct position. Tighten Torch Securing Bolt on Torch Holder. Start with low flame for 5 minutes to allow melter to warm up, then open ball valve until firing at a high rate while still maintaining complete combustion (no back flame out of fire tube).

WARNING: DO NOT OVERLOAD ! If the Agitator Engaging Lever is locked in the drive position, or electric motor started before the material has partially melted, the excessive solid material may cause damage to the Agitation Rack or drive mechanism.

5. Always open Material Loading Door from the opposite side of melter to prevent injury from spontaneous ignition which may occur due to a sudden rush of incoming air. Add material to centre of Agitation Rack.
6. Once material has BEGUN to melt (about 10 minutes),
Gas engine - engage Agitator Engaging Lever gradually by removing Locking Pin and increasing tension slowly.
Electric motor - turn power switch ON

Observe:

- material has melted sufficiently (not completely) to allow complete movement of Agitation Rack, if large chunks of material bind Agitation Rack, allow more time for them to melt
- Gas engine only - drive belt is not slipping,
- all moving parts have a uniform motion.

When confirmed all of the above is correct:

Gas engine - the Agitator Engaging Lever can be locked in the drive position.

Electric motor - the power switch can remain ON.

Never run machine empty, this can cause damage to the tub.

NOTE: This melter will heat material very quickly and should NEVER be left unattended. Even when the propane torch is extinguished, temperatures will continue to rise due to the remaining thermal energy stored in the Superheated Air Chamber below (Depending on the amount of material in the melter, the temperature can rise approx 50 - 100 degrees Fahrenheit).

7. When material is melting and has become a thick, uniform consistency, more material can be added.
8. Check temperature regularly. Heat material to manufacturer's specifications.
9. Once the material has reached correct temperature, adjust propane torch as necessary.
10. Open material Loading Door (from opposite side), add material to centre of moving Agitation Rack.
11. Add material as required.

C) SHUT DOWN:

1. Upon completion of working period, the melter should be as empty as possible. This will ensure a quick warm up for the following working period and prevent any stress on moving components due to excessive solid material.
2. Remove propane torch. Close all valves.
3. Before transporting, melter should be as empty as possible, cool to the touch and the residual material should be solidified.

D) LIFTING - BY CRANE:

The A&A Steel A-40 can be lifted vertically by utilizing the 4 eye bolts at each corner.

The weight of the A-40 is approximately 800 lbs. empty.

It should be as empty as possible, cool to the touch and the residual material should be solidified before lifting.

E) LIFTING - MANUALLY:

The A-40 can be manually lifted (the power pack can be removed to reduce its weight).

1. The melter must be completely empty and cool to the touch.
2. Remove the safety guard(s).
3. Remove the Connecting Link cotter pins and remove the arm.
4. Remove the Engine/Reduction Power Pack. (To prevent any gasoline leaks, the gas cap should be tightened and taped shut - gas motor only).

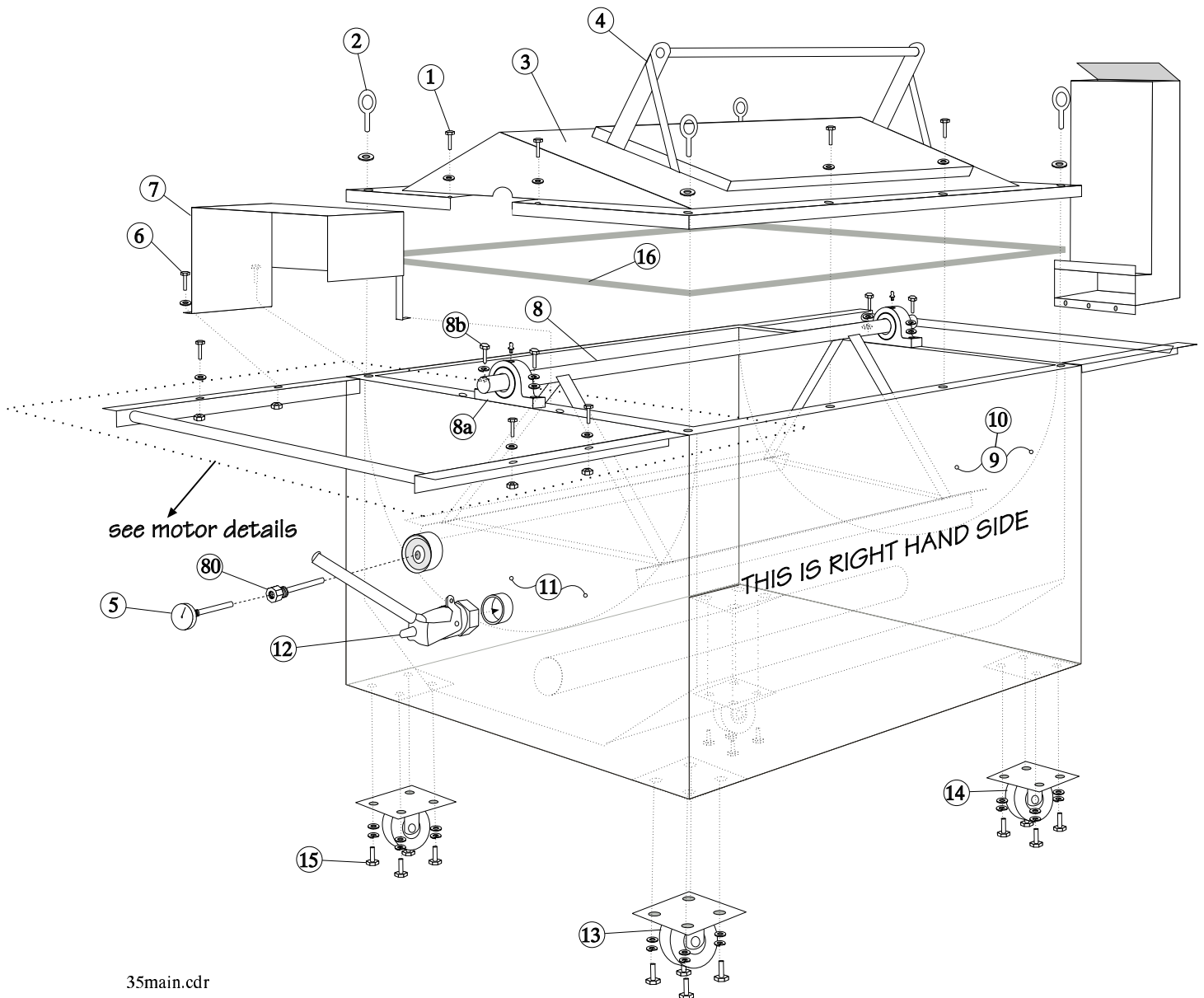
A&A STEEL - A-40 PARTS LIST

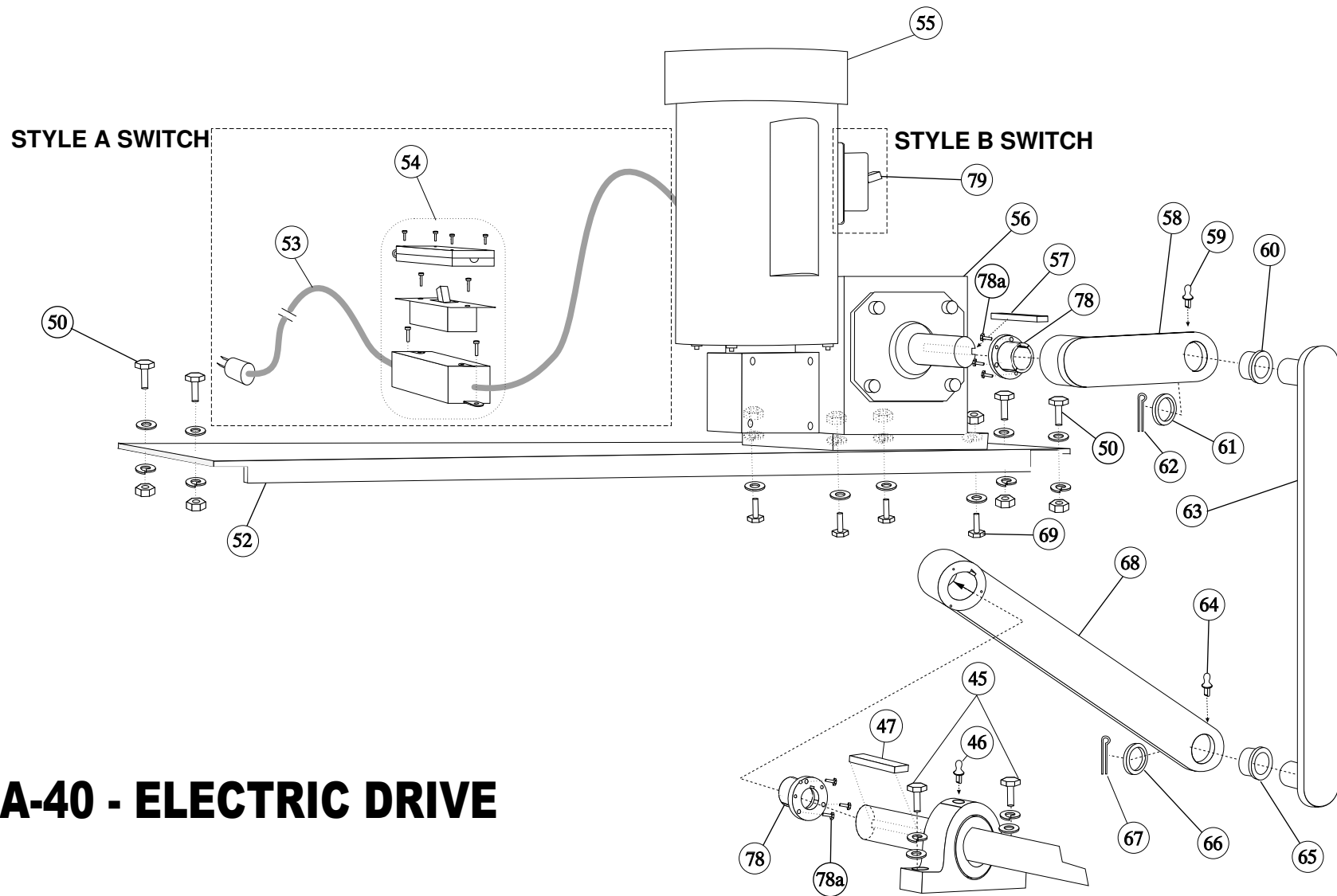
January 2013

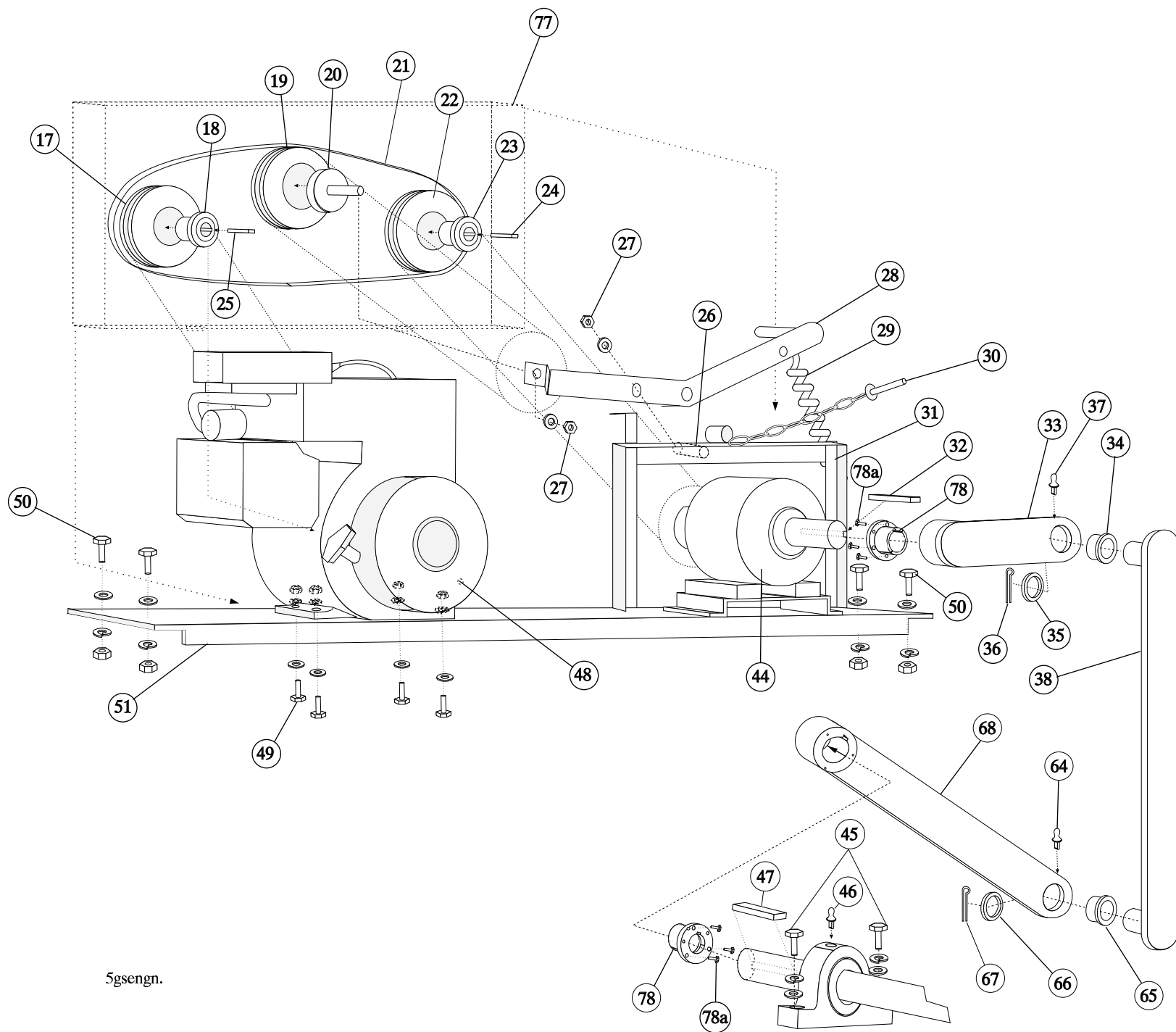
NO. - DESCRIPTION

1	- 1/2" x 1 1/4" UNC c/w Flat Washer	46	- NTN Grease Nipple
2	- 1/2" x 1" Eye Bolt (2000lb) c/w Flat Washer	47	- 3/8" Key
3	- Top Cover	48	- 4 HP I/C Honda Gas Engine
4	- Loading Door	49	- 3/8" x 2 1/2" UNC c/w Lock Washer
5	- 4" Thermometer (200-700 F)	50	- 1/2" x 1 1/2" UNC c/w Lock Washer & Nut
6	- 1/2" x 1 1/2" UNC c/w Flat Washer	51	- Gas Drive Base
7	- Protective Guard Arm	52	- Electric Drive Base
8	- Agitation Rack (complete assembly)	53	- 14 ga. 3 Wire Cord
8b	- Bearing Bolts, 8A Bearings - P207	54	- Switch w Overload Protection
9	- Side Cover (right)	55	- 1/2 HP 115V Single Phase Motor
10	- Side Cover (left)	56	- Reduction Unit
11	- End Cover	57	- 1/4" Key
12	- Material Tap Valve (gate valve)	58	- Reduction Unit Drive Arm
13	- Pivoting Caster Wheel	59	- 1/8" NPT Grease Nipple
14	- Fixed Caster Wheel	60	- Connecting Link Insert Bushing
15	- 1/2" x 1 1/2" UNC	61	- 1" Flat Washer
16	- Gasket	62	- 1/8" x 2" Cotter Pin
17	- Engine Drive Pulley	63	- Connecting Link
18	- Engine Drive Pulley Insert	64	- 1/8" NPT Grease Nipple
19	- Agitator Engage Pulley	65	- Connecting Link Insert Bushing
20	- Agitator Drive Pulley Insert	66	- 1" Flat Washer
21	- B39 Drive Belt	67	- 1/8" x 2" Cotter Pin
22	- Reduction Drive Pulley	68	- Drive Arm Agitator
23	- Reduction Drive Pulley Insert	69	- 1/2" x 1 1/2" UNC Bolt c/w Lock Washer
24	- 3/16" Key	70	- Exhaust Cover (left)
25	- 5/16" Key	71	- Exhaust Cover (right)
26	- 1/2" x 1 1/4" UNC Pivot Bolt	72	- Exhaust Stack
27	- 1/2" Locknut, Flat Washer	72a	- 1/4" Hex Bolts
28	- Agitator Engaging Lever	73	- Exhaust Manifold
29	- Agitator Lever 6" Return Spring	74	- Torch
30	- Agitator Locking Pin	74a	- Torch Oriface Plug
31	- Agitator Lever Mounting Bracket	74b	- Goose Neck
32	- 1/4" Key	74c	- Appollo Ball Valve
33	- Reduction Unit Drive Arm	74d	- 3/8" x 20' Hose
34	- Connecting Link Insert Bushing	74e	- Regulator
35	- 1" Flat Washer	74f	- M 306
36	- 1/8" x 2" Cotter Pin	74g	- 486 B
37	- 1/8" NPT Grease Nipple	74h	- 486 C
38	- Connecting Link	75	- Torch Holder
39	- Connecting Link Insert Bushing	75a	- 3/8" UNC Bolt c/w Lock Washer
40	- 1" Flat Washer	76	- 1/4" x 1" UNC Torch Securing Bolt
41	- 1/8" x 2" Cotter Pin	76a	-
42	- 1/8" NPT Grease Nipple	77	- Belt Guard
43	- Agitator Drive Arm	78	- P 1 x 1 1/4" Bushing (cut to size)
44	- Reduction Unit	78a	- 1/4" UNC Bolt
45	- 1/2" x 2 1/2" UNC c/w Flat Washer & Lock Washer	79	- Style B Type Toggle
		80	- Thermowell Sleeve

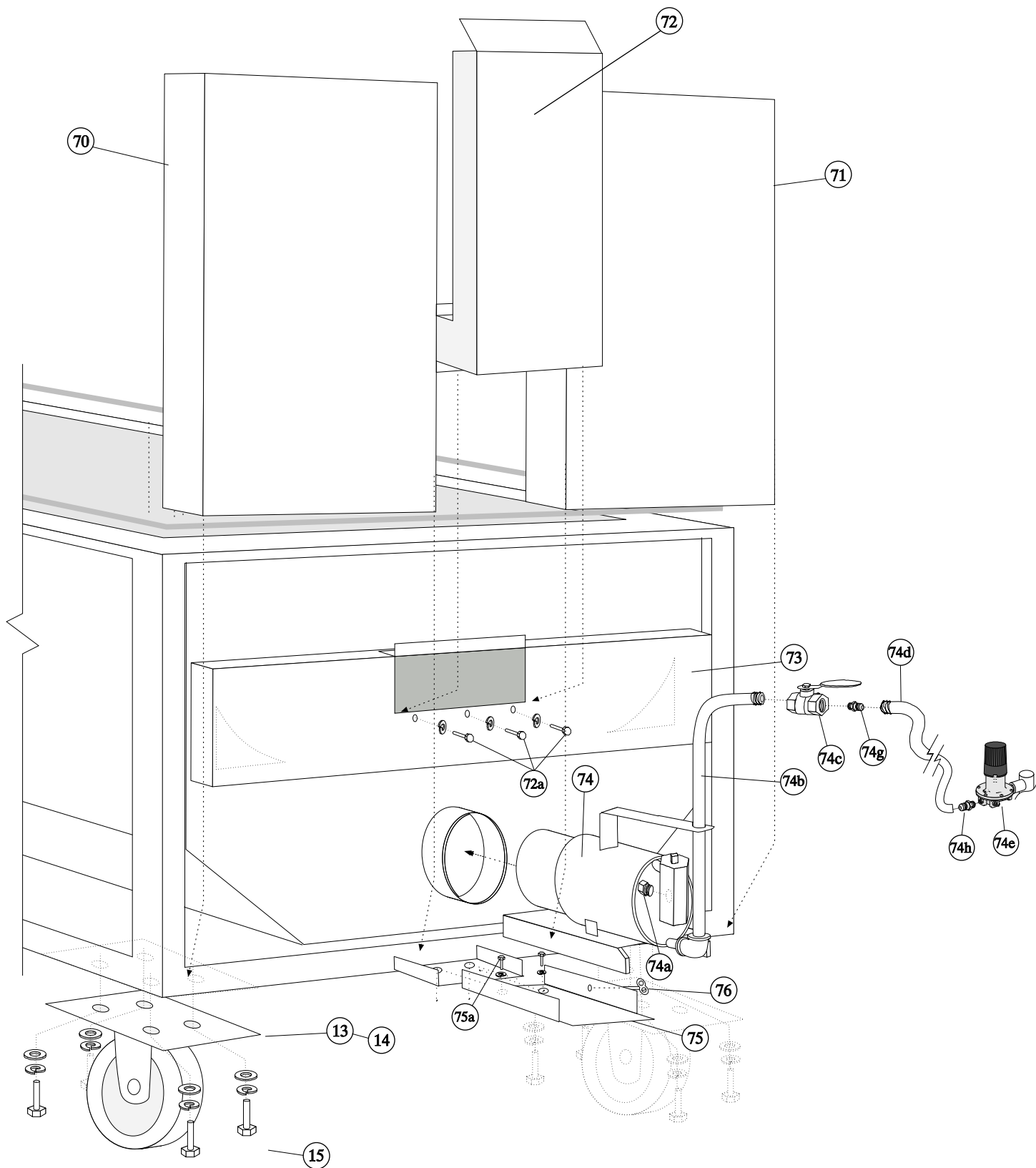
A&A STEEL ENTERPRISES - MODEL A-40







5gsengn.



A&A Melters

A & A STEEL ENTERPRISES LTD.

220 Myrnam Street
Coquitlam, BC
Canada, V3K 6G4

Toll Free: 1-888-469-4480
Phone: 1-604-469-4480
Fax: 1-877-694-8714
Email: ryan@aamelters.com
Website: www.aamelters.com

Recommended Maintenance schedule

Daily - Check motor and crankcase oil level, trailer lights, torch alignment,
Breakaway battery charge

50 hours - Check all nuts, bolts, belts, pulley alignments + grease all nipples

100 hours - Clean air filter, change motor oils, and check propane fittings
for leaks

300 hours – Clean sediment bowl in motor

500 hours – Check all drive arm bolts, bushings, wheel nuts, gear box oil
level, tire pressure

1000 hours – Clean tub out, pull agitator, check clearances between tub and
agitator, check pillow block bearings, brakes, wheel bearings,
material valve, kettle mounting bolts, safety chains, coupler