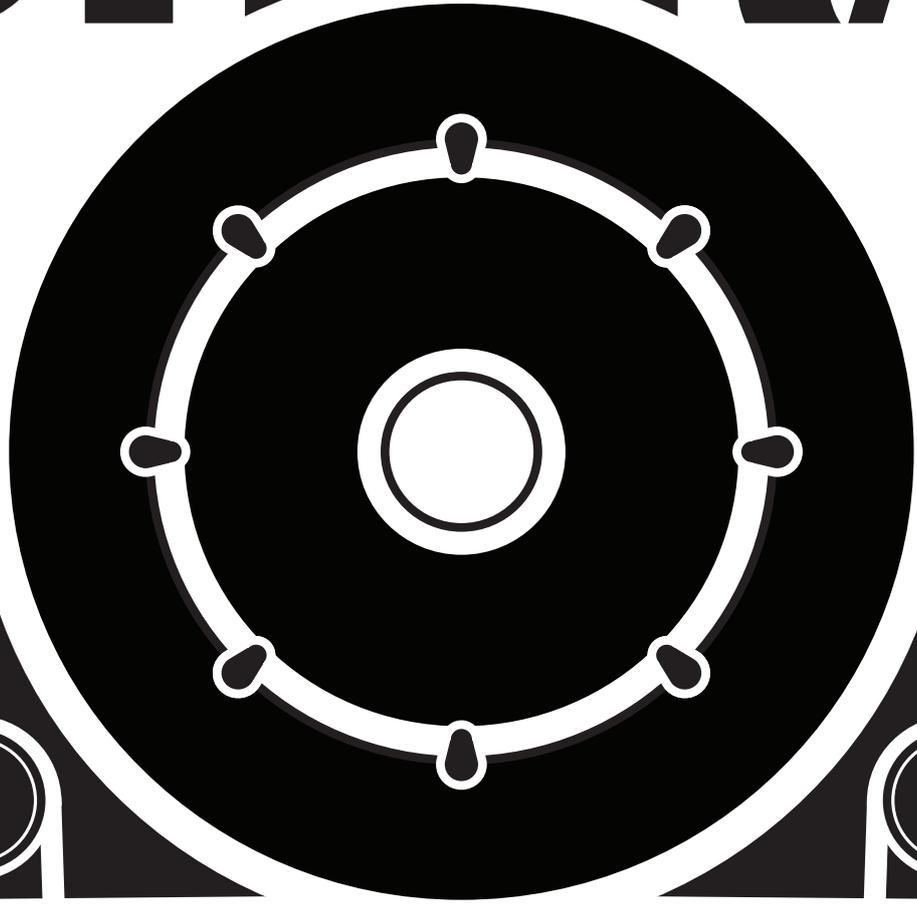


SHIRA



TRAINS



READ ME!

Just like us, we are sure you hate reading manuals, but you should. Really. There is important stuff in here.

THANK YOU FOR YOUR SUPPORT!

This OPERATORS manual will cover the details of the D-10h model that you have purchased, including how to service* and operate the functions on your new model. Like all models, these models should be handled with care. Our models are meant to be enjoyed with your eyes and ears, and should not be handled unless when needed; This isn't because of faulty or shoddy construction, but so the oils on your hands do not settle on the boiler or other parts causing unsightly fingerprints. There are also several small components on your model that could be jarred loose from over handling, and as such, let us reiterate, it should always be handled with care - in any service procedure or operations session.

The D-10h Locomotive features the following DIE-CAST** parts:

boiler, boiler support, tender chassis, leading truck centre weight, gear housing as well as other smaller parts. Needless to say there is a lot of weight in your model due to the metals. Please take care that your locomotive does NOT come into contact with any live wires other than the intended powered track. This may lead to a disastrous outcome and is not covered by warranty, written, implied or otherwise stated.

SAFETY WARNING:

Your locomotive and tender have been checked at the factory and has had approx. 15-20 minutes of run time already on it. While we strive to find all the faults before they get out, we are only human. Please check your locomotives operation on a test track to ensure that it is functioning as intended.

FAILURE TO DO SO MAY RESULT IN UNWANTED SHORTS OR LAYOUT DAMAGE WHICH WE CANNOT BE HELD RESPONSIBLE FOR AS WE HAVE NO CONTROL OVER THE TESTING ENVIRONMENT.



SMT 0100: CANADIAN PACIFIC D-10h # 1057

Includes: SHORT head lamp. DCC decoder with sound installed. Extras include: smoke deflector, pilot step, extra sand dome, grease, extra gear, operating tender coupler, instructions, bell wire, warranty card.**

SMT 0102: CANADIAN PACIFIC D-10h # 1100

Includes SHORT lamp, front pilot step. DCC decoder with sound installed. Extras include: smoke deflector, extra sand dome, grease, extra gear, operating tender coupler, instructions, bell wire, warranty card.**

SMT 0101: CANADIAN PACIFIC D-10h # 1095

Includes: LONG head lamp, smoke deflector. DCC decoder with sound installed. Extras include: pilot step, extra sand dome, grease, extra gear, operating tender coupler, instructions, bell wire, warranty card.**

SMT 0103: CANADIAN PACIFIC D-10h

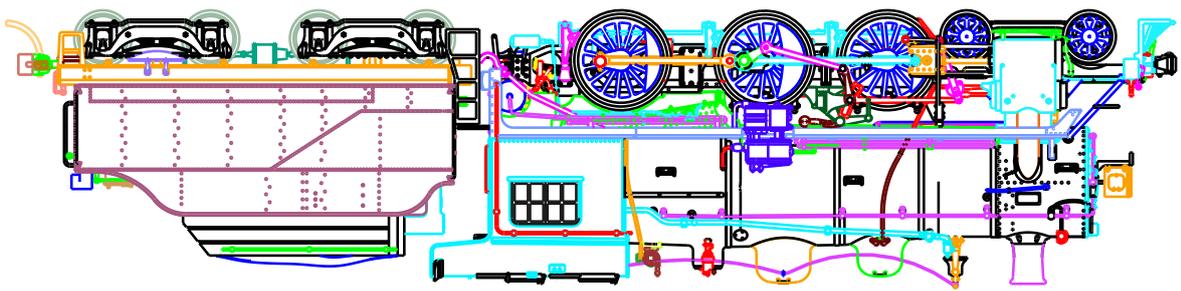
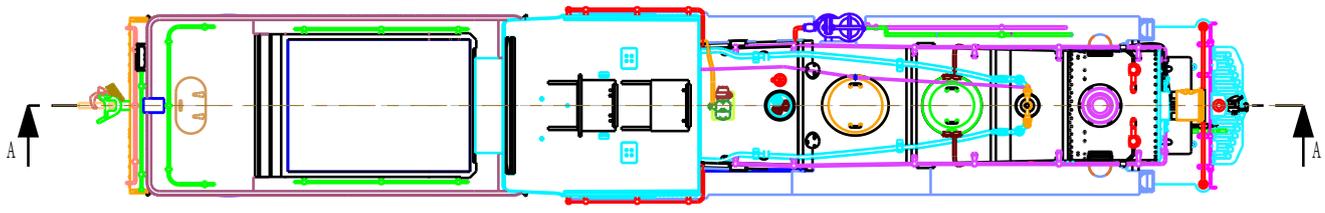
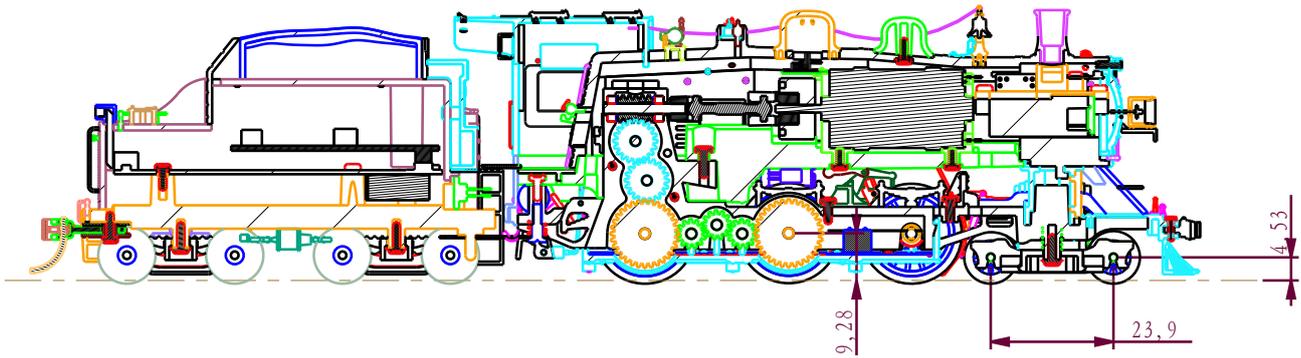
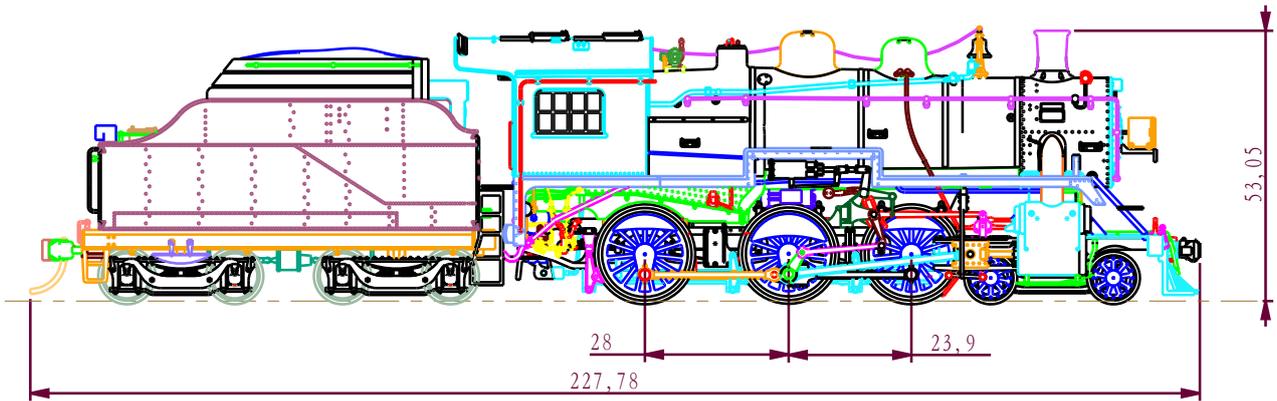
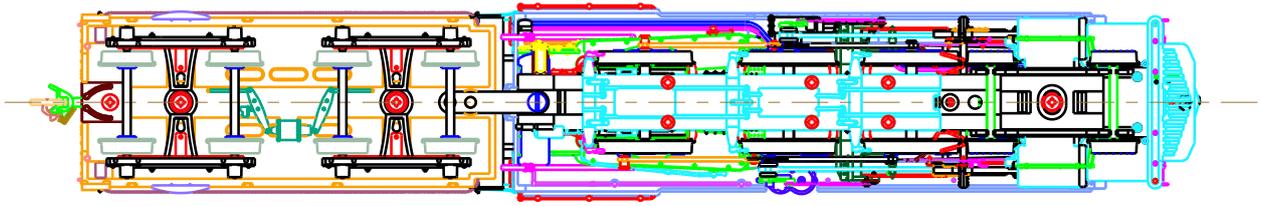
A limited amount of UN NUMBERED D-10h units will be available. Included with these units are all option parts (smoke deflector, pilot step, extra sand dome, grease, extra gear, operating tender coupler, instructions, bell wire and warranty card. Includes SMT 0104.**

SMT 0104: D-10h DECAL SHEET

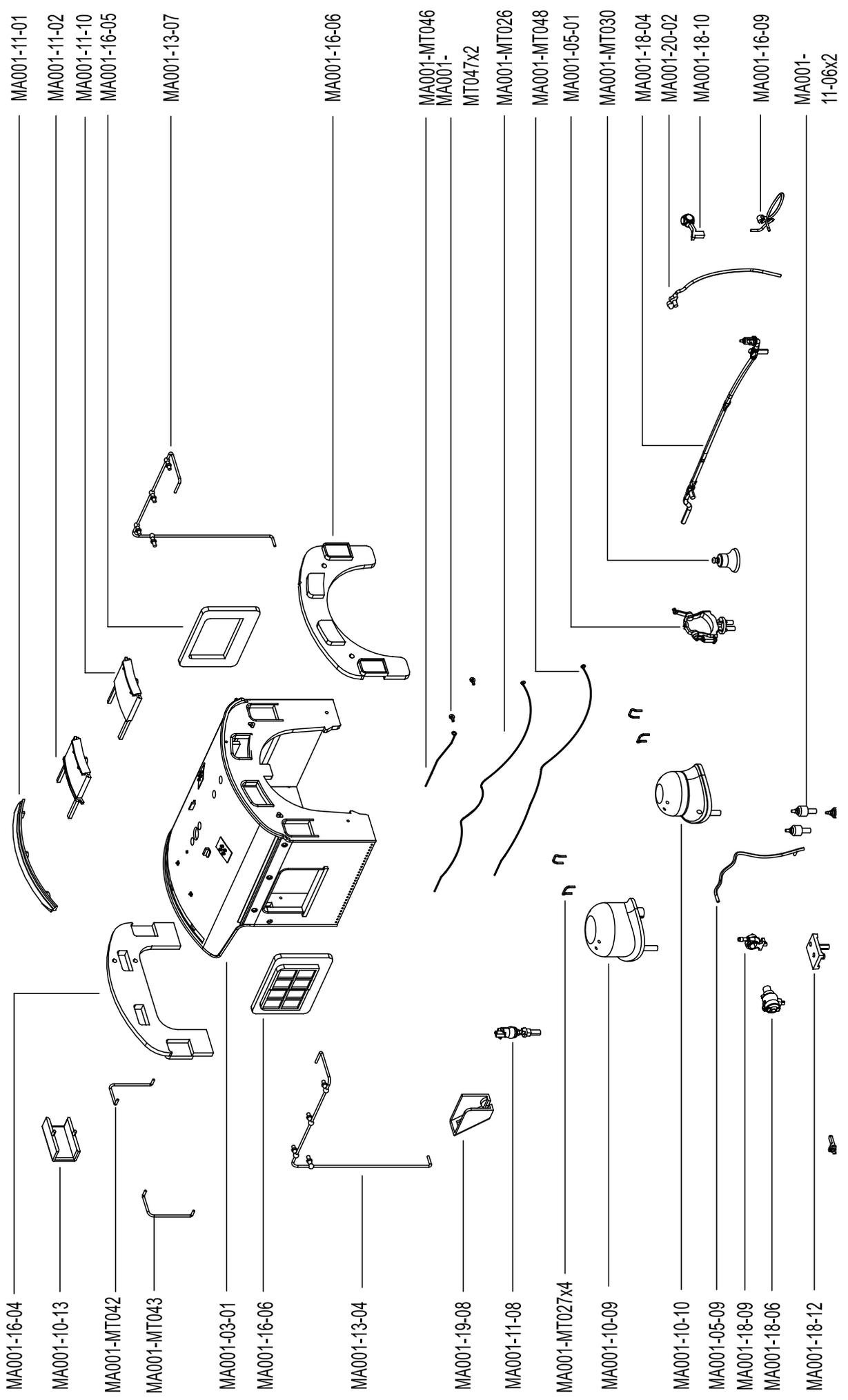
Water slide decals for our SMT 0103. Colours match lettering as well as have included white, black and gold lettering as well as size charts. Decals are extremely thin to maintain realism and as such, we have given extras in case errors occur.

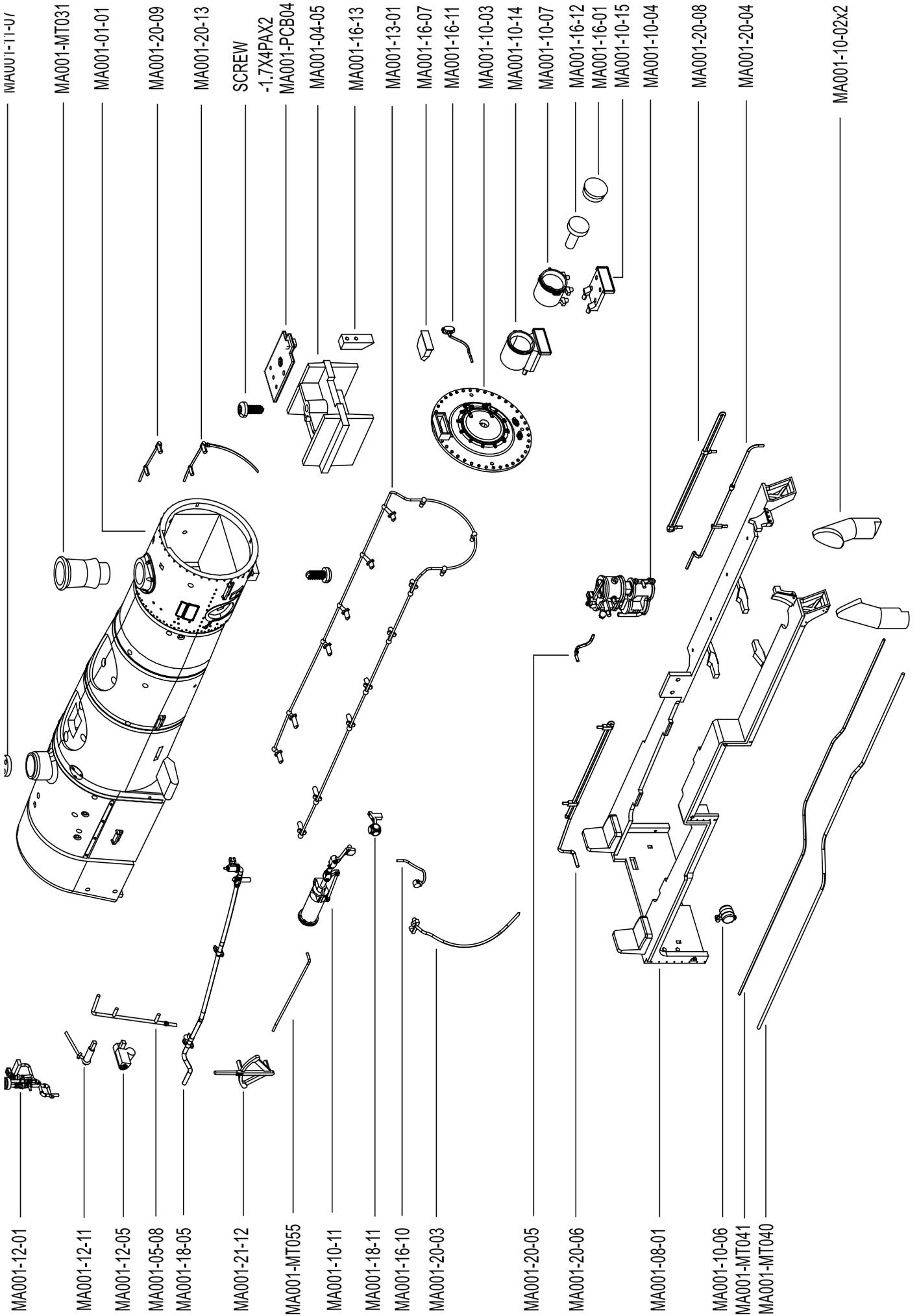
* - Service should only be performed by a qualified technician. Service not done by a qualified technician may lead to voiding your warranty.

** - Specifications are subject to change without notice.



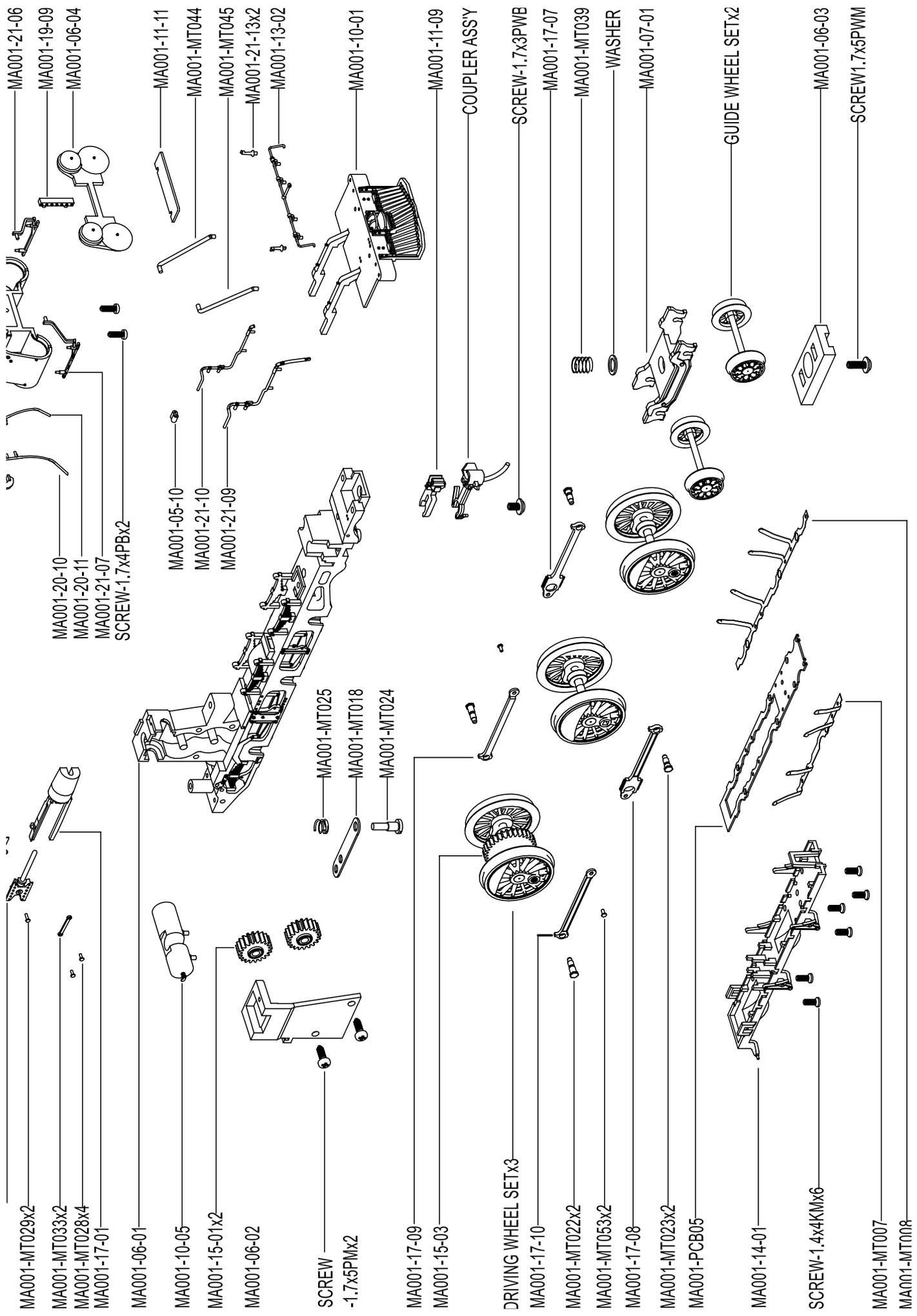
BOILER ASS'Y EXPLODED



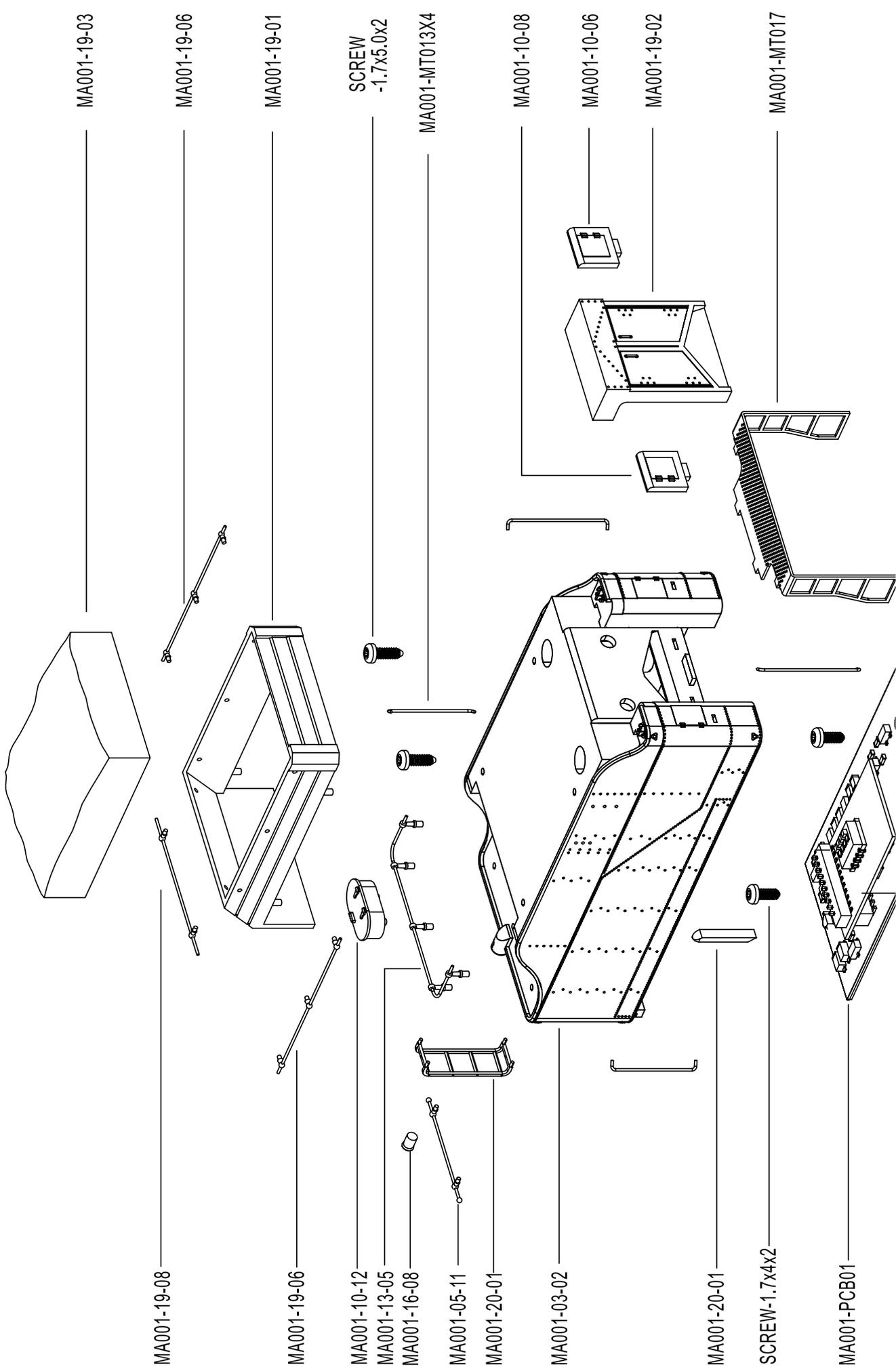


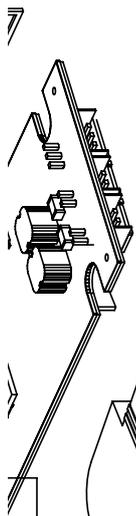
MA001-12-01
 MA001-12-11
 MA001-12-05
 MA001-05-08
 MA001-18-05
 MA001-21-12
 MA001-MT055
 MA001-10-11
 MA001-18-11
 MA001-16-10
 MA001-20-03
 MA001-20-05
 MA001-20-06
 MA001-08-01
 MA001-10-06
 MA001-MT041
 MA001-MT040

MA001-11-01
 MA001-MT031
 MA001-01-01
 MA001-20-09
 MA001-20-13
 SCREW
 -1.7X4PAX2
 MA001-PCB04
 MA001-04-05
 MA001-16-13
 MA001-13-01
 MA001-16-07
 MA001-16-11
 MA001-10-03
 MA001-10-14
 MA001-10-07
 MA001-16-12
 MA001-16-01
 MA001-10-15
 MA001-10-04
 MA001-20-08
 MA001-20-04
 MA001-10-02x2



TENDER ASS'Y EXPLODED





MA001-PCB02

SPEAKER



COUPLER
ASSY

MA001-13-03



SCREW-1.7x5

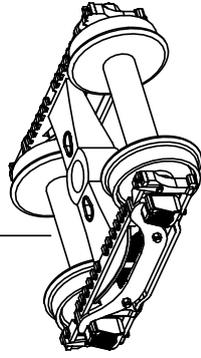
MA001-02-02



MA001-11-04

MA001-11-03

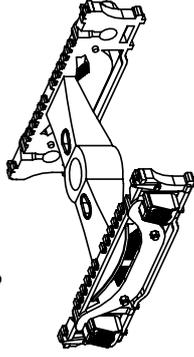
TENDER TRUCK ASS'Y



MA001-MT056



MA001-MT014X2



MA001-07-02

SCREW-1.7x5 PWM



MA001-MT003x2

M001-02-05x2



MA001-MT005x4



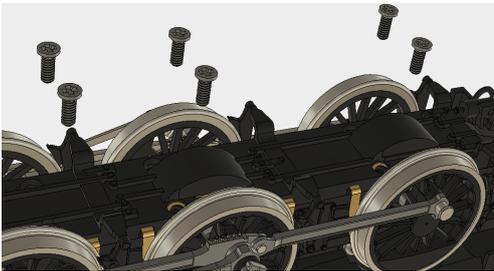
SERVICING THE D-10h MODELS*

Please note that servicing the SMT models by any none authorized dealer may void your warranty.

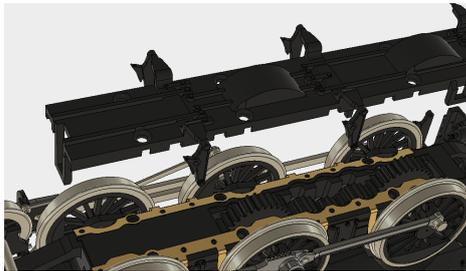
Regular maintenance is a vital part of any electrical device. While we have tried to make service intervals as infrequent as possible, you should be aware that lubrication service may need to be performed at some time. Our Bronzite bushings use a self-lubricating formula, as the axles turn and generate heat, the bushings release an oil that both lubricates and polishes the axle at the contact point, allowing for better electrical connection, and less need for servicing. Small bits of debris may stick to the lubrication and axles during operation. After operation; or if you notice erratic running, Check the axles for layout bits, hair or other loose items that may find there way into the operational area. When handling the locomotive, please be careful as there are small parts that can be bent out of place or broken off. To avoid the spread of oils on your model, it is recommended that you use rubber gloves or finger cots - if you do get finger prints on your model, you can clean them a cotton swab. **DO NOT USE ACETONE** or other harsh cleaning chemcals, as this may damage your model. For information on how to service your model, please read on.

Operators Service Manual - PROCEDURE FOR GREASE AND LUBRICATION.

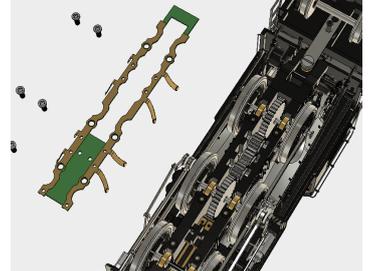
- REQUIRED - #0 Phillips screw driver, lite oil, lite grease, work station



On the bottom of your locomotive, there are a series of 6 (six) screws that secure the gear cover on. Placing the locomotive on a secure work station, such as a foam cradle, remove these screws. Place these screws somewhere where you will not lose them. A small dish or container is suggested to hold these screws and stop them from rolling off your work station.



After you have removed the screws and placed them in a safe location, lift off the GEAR COVER. Lift the cover STRAIGHT UP taking care not to damage the moulded brake supports. This will expose the IC and PICK-UPS and 6 more screws. Remove these 6 (six) screws and the IC and PICK UPS. Please take notice: **DO NOT BEND THE ELECTRICAL PICK UPS!** Creasing or crimping them will result in erratic pickup and will cause running issues not covered by any warranty..



At this stage, you have successfully gained access to the DRIVE TRAIN, axles and gears. A small amount of lubrication placed on the teeth of the gears, and light oil placed on the axles will ensure smooth, trouble free operation. The locomotive has these applied at the factory and will **NOT** require these as new. **Only do this if you notice erratic operation.** At this point after lubrication is completed, you can reassemble the drive. Service is complete.

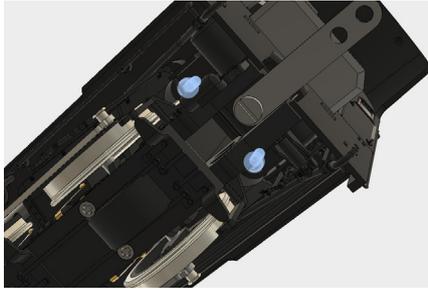
Please note that ANY modification to electronics in your locomotive will void your warranty.

Operators Service Manual - MOTOR REPLACEMENT

- REQUIRED - #0 Phillips screw driver, grease, soldering iron, flux, small flat head screw driver

This servicing requires a steady hand, knowledge of electrical circuits and time. Do not perform this service if you are uncertain of your skill. Like all motors or things with moving parts, parts have a tendency to wear down, even when maintained. As the main source of power for your locomotive, your motor undergoes stresses such as voltage variation, torque fatigue, fatigued springs or worn brushes and commutator. At some point, your motor may require servicing or replacement. To gain access to the motor, the boiler will need to be removed. We have made this as easy as we could while maintaining aesthetics and operational validity.

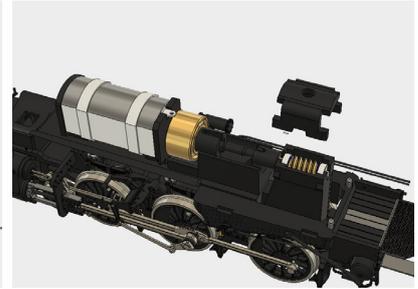
CONT'D



To remove the boiler, you will need to remove the 2 (two) screws as highlighted in the rendering above. Place these screws in a safe, secure location

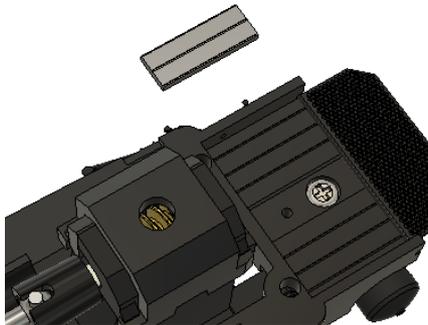


Tilting the boiler from the BACK forward (as depicted in the render) slide the boiler off. This will leave exposed the motor, universal, worm gear cover, and flywheel. Place the boiler in a safe place where no damage will occur.

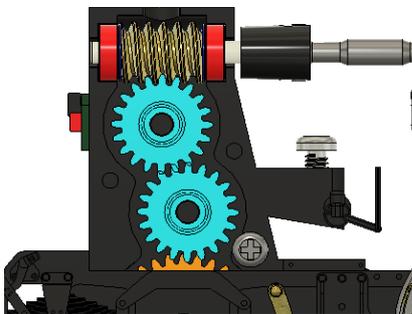


Using a small flat head screwdriver, pry off the worm gear cover, exposing the worm gear. At this point, you can service the motor by de-soldering the leads and replacing or changing. *Please note that changing any electronics in your locomotive will void your warranty.*

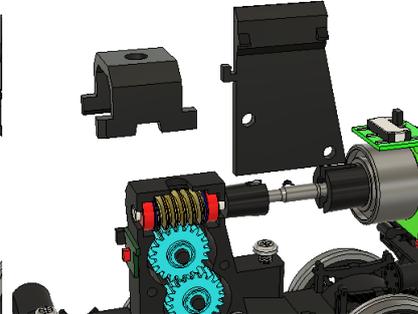
CONTINUED SERVICE



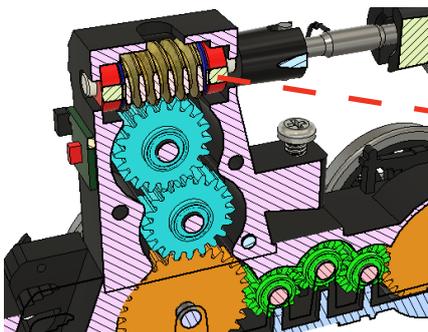
Now maybe a good time to access the drive mechanism should you need to lubricate and service. With the boiler and motor removed you will need to remove the screw cover on the cab floor. The two screws secure the boiler bottom, which can now lift straight out.



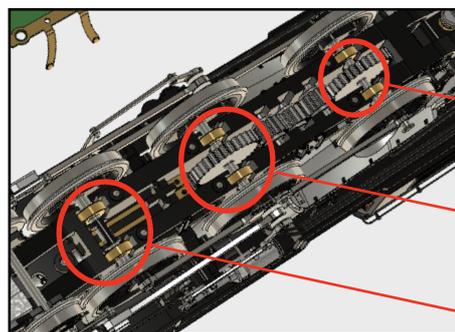
With the chassis exposed, you can put lite GREASE in the service hole of the drive mechanism. Not much grease is needed, and be carefull NOT to over pack the drive with grease. There is a CAM located on the front axle that will not function correctly if covered in grease. You can also remove the 2 cover screws to access the worm gear, idler gear and counter gears. While there is rarely need for servicing in this area, it may happen.



If grease gets between the worm gear assembly (worm gear, washer, bronzite bushings) you should remove the grease and use lite oil. The metal on metal contact surfaces require lite oil to penetrate the tight tolerances. GREASE WILL NOT CORRECTLY LUBRICATE THE WORM GEAR WASHERS AND BUSHINGS AND MAY RESULT IN MECHANISM FAILURE IF NOT CORRECTLY APPLIED.



The bronzite bushing requires lite oil for correct lubrication and operation! This cross section shows the gears in operational order. Modification of gears will result in erratic running. DO NOT USE ANY OTHER GEARS FOR OPERATION.



NOTE: The front driver axle has a CAM on it and is NOT a geared driver. This allows the chuff option to synchronize with the drivers as they push the pistons.

! DO NOT GREASE THIS DRIVER !

MODIFICATIONS TO THE DRIVE OR ELECTRONICS WILL VOID ANY AND ALL WARRANTIES ASSOCIATED WITH THIS PRODUCT

For optimum performance, your new model comes equipped with an all-wheel electrical pick up. To ensure that wheels and track surfaces are clean, use a non-abrasive track / wheel cleaning product to remove carbon deposits that could interfere with operation. These are available from your local hobby retailer.



DCC/DC/SOUND

Your new D-10 model comes equipped with an ESU decoder. The included LOKSOUND 5 is ready to use on your analogue or digital layout. For more information on your ESU LOKSOUND 5, please visit www.loksound.com
If you change any CV settings on your locomotive, you can reset your decoder to its factory defaults by setting CV8 = 8.

FUNCTION	TYPE
F0	Head Light
F1	Bell
F2	Whistle
F3	Coupler Sound
F4	Coast Mode
F5	Rear Light
F6	Numberboard
F7	Switching Mode
F8	Drive Sounds
F9	Heavy Load Mode
F10	Independent Brake
F11	Coal Shoveling
F12	Dimmer
F13	----
F14	Air Pump (variable)
F15	Air Pump (slow)
F16	Injector
F17	Auto Brake Set/Rel
F18	Ash Dump
F19	Blowdown
F20	Safety Valve
F21	Air Horn
F22	Rods

Decoder type	LokSound 5 DCC
Address	3
Manufacturer	ANE Model
Project number	12415
Project version	V1



****If you change your settings, and wish to revert back to the FACTORY DEFAULT settings, set CV8 to 8.**

Warranty

Each locomotive leaves the factory after inspection and running to ensure that all mechanisms and features are operative. While damage may occur from handling by shipping and courier companies, we have designed our packaging to absorb most of the jolting that may occur. Small parts that become dislodged, loose or fall off during transport are NOT covered under warranty for service, however, pieces that may have become damaged in transit we will replace for you under warranty with a valid proof of purchase. If you have purchased the unit directly from us, there is no need to provide additional paperwork. If you receive your locomotive completely damaged beyond what you may consider an acceptable amount, please DO NOT USE your locomotive.

THE FINE PRINT.

- 1) Products are covered for 6 months when purchased from an authorized dealer and covers the ORIGINAL purchaser only and is non-transferrable.
- 2) Repairs must include the original sales receipt.
- 3) All products must be registered to receive any warranty work. Please register your locomotive.
- 4) All products are warranted against manufacturers defect in material or workmanship.
- 5) At our discretion, we will credit, repair or replace the defective parts without charge for parts or labour. Credits are in credit form against future products.
- 6) Locomotives over 2 years from DATE OF PURCHASE or that have been modified are not covered under this warranty.
- 7) This warranty DOES NOT cover damages caused by transit, over usage, modification, alteration, customization, improper handling or usage or abuse.
- 8) This warranty DOES NOT cover regular usage parts such as LEDs, Pick-up wires, or moving parts, acts of God, fire, unforeseen accidents or anything that remains out of the control of the manufacturer.

HEAD OFFICE

SERVICE DEPT

CONTACT INFORMATION:

Email: support@shiratrains.ca
Website: www.shiratrains.ca

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Your locomotive has been designed in CANADA by SHIRA TRAINS and assembled with pride in Dongguang City, Guangdong province at the YIHE ARTS AND CRAFTS CO., LTD.