ARBIL RAIL

USER HANDBOOK

Z-UHB-042
ISSUE 5

HYDRAULIC TRACK JACKS

MODELS

F.805/B, F805/BR, F.805/50, F.1054, F.1527

1. LEADING PARTICULARS

Model Number	**F.805B**		**F.805BR**		**F.805/50**		**F.1054**		**F.1527**	
Number of Rams	1		1		1		2		1	
Closed Height	**mm**	**ins**	**mm**	**ins**	**mm**	**ins**	**mm**	**ins**	**mm**	**ins**
Head	235	$9^1/_4$	235	$9^1/_4$	235	$9^1/_4$	95	$3^3/_4$	343	$13^1/_2$
Toe	82.5	$3^1/_4$	95	$3^3/_4$	50	2			190.5	$7^1/_2$
Capacity										
Head	8 tons		8 tons		8 tons		10 tons		20 tons	
Toe	5 tons		5 tons		5 tons				15 tons	
Hydraulic Lift	90	$3^1/_2$	90	$3^1/_2$	90	$3^1/_2$	101.6	4	152.4	6
Extended Height										
Head	325	$12^3/_4$	325	$12^3/_4$	325	$12^3/_4$	197	$7^3/_4$	495	$19^1/_2$
Toe	171.45	$6^3/_4$	184	$7^1/_4$	140	$5^1/_2$			343	$13^1/_2$
Weight	Kgs	lbs	Kgs	lbs	Kgs	lbs	Kgs	lbs	Kgs	lbs
	20	44	18.5	41	18.5	41	16.5	36	36	79

Recommended hydraulic fluid - SHELL TELLUS 37 or equivalent

WE DECLARE THAT THE DESCRIBED EQUIPMENT MEETS THE REQUIREMENTS OF THE MACHINERY DIRECTIVE AS LAID DOWN IN THE *SUPPLY OF MACHINERY (SAFETY) REGULATIONS 2008 No. 3073* AND THE *SUPPLY OF MACHINERY (SAFETY) (AMENDMENT) 2011 No. 2063*

2. HYDRAULIC CIRCUIT

The hydraulic principal embodied in the jack consists of a reservoir containing oil at normal pressure and a cylinder into which this oil is forced

under pressure by means of a pump, causing the ram(s) to rise, when the release valve is closed.

A suction, non-return, ball valve is positioned between the reservoir and the pump. When the pump plunger is withdrawn by raising the pump handle, the suction valve is raised from its seating and fluid is drawn from the reservoir into the pump chamber, passing through a fine mesh filter. Drillings connect the pump to the pressure cylinder and here is installed a delivery ball valve.

When the pump is depressed the suction valve closes, the delivery valve opens and oil is delivered under the ram(s) in the cylinder. Immediately the pump stroke is completed, the delivery valve closes and the suction valve opens, the operation of the pump continues until the ram is at the desired height.

To lower the ram(s), the release valve is opened and oil is allowed to return from the cylinder to the reservoir.

An overload valve is fitted and relieves excess pressure in the cylinder, should an attempt be made to exceed the safe working load. The overload valve is preset during testing procedures and before despatch to Client at **105% of Safe Working Load**. No attempt should be made to adjust the valve. Unauthorised tampering with this valve will render the Test Certificate and Warranty null and void. If at fault DO NOT USE, withdraw from service and consult your original supplier.

3. OPERATION

3.1 The unit should be examined every time before using, in particular looking for signs of damage and fluid leaks. When necessary repairs are required, DO NOT USE, return to original supplier.

3.2 Place the pump handle in the socket on the jack and rotate it clockwise to close the release valve.

3.3 Open the air valve about 2 turns to allow the jack to "breathe" on *F805* and *F1527* models only.

3.4 Operate the pump handle to raise the load.

3.5 When the track maintenance has been completed, lower the jack rams by turning the pump handle anti-clockwise. The amount of rotation governs the rate of descent. On *F.1054*

depress air filler screw plunger to release excess air pressure from reservoir on removal of jack from rail.

3.6 Before storing the jack, close the release valve and air valve to prevent leakage.

3.7 When not in use, the ram should be fully retracted.

If the unit has been in store or not used for a long period of time, oil may seep past the seals giving the appearance that the seals are leaking as the ram is extended. With further use no leakage will be noticeable.

4. MAINTENANCE

The unit should be examined every time before using, in particular looking for signs of damage and fluid leaks. When necessary repairs are required, DO NOT USE, return to original supplier.

4.1 TO FILL RESERVOIR AND CHECK FLUID LEVEL

The fluid level in the reservoir should be maintained at about ½ inch (13mm) below the level of the filler hole when the ram is fully retracted and its base is horizontal.

The reservoir should be filled as follows:

4.1.1 Remove the filler screw and insert a small funnel in the filler screw hole.

4.1.2 Slowly pour the fluid into the reservoir until the required level is reached. Refit the filler screw.

4.1.3 Open the release valve and gently operate the pump to expel all air from the fluid ways.

4.2 Lubrication

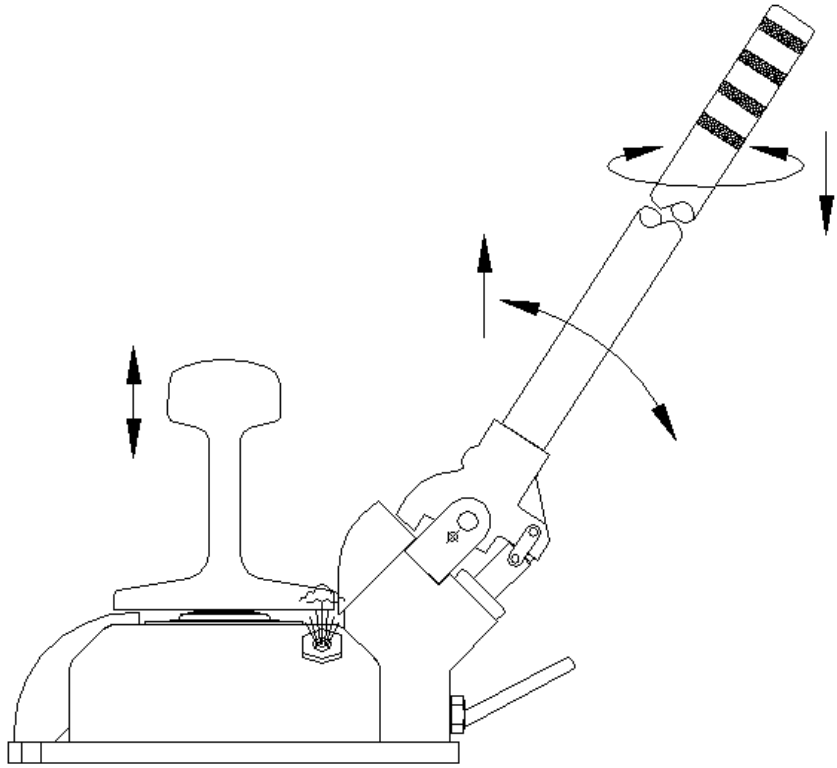
Recommended hydraulic fluid - Shell Tellus 37 or equivalent

4.2.1 The moving parts of the unit should be periodically lubricated with hydraulic oil and the ram should be greased before storing for any length of time.

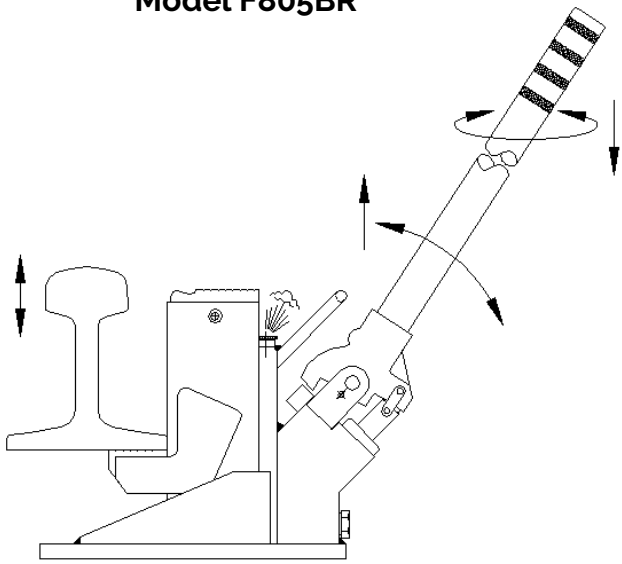
WHEN NOT IN USE THE RAM SHOULD BE FULLY RETRACTED.

If the unit has been in store or not used for a long period of time, oil may seep past the seals giving the appearance that the seals are leaking as the ram is extended. With further use no leakage will be noticeable.

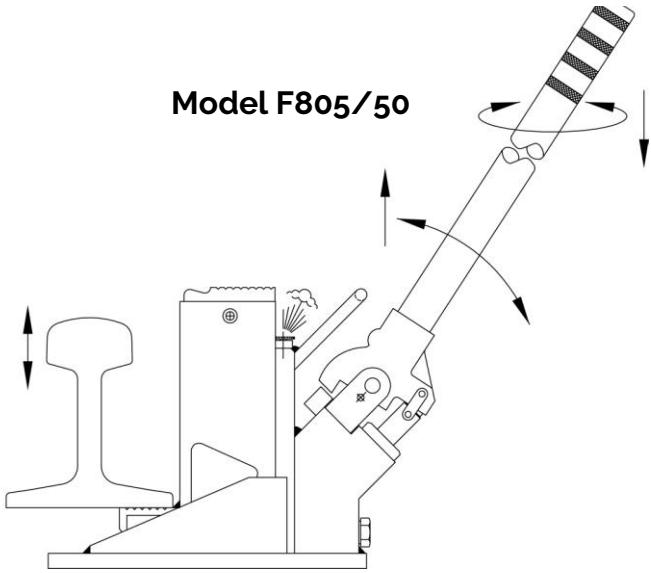
Model F1054



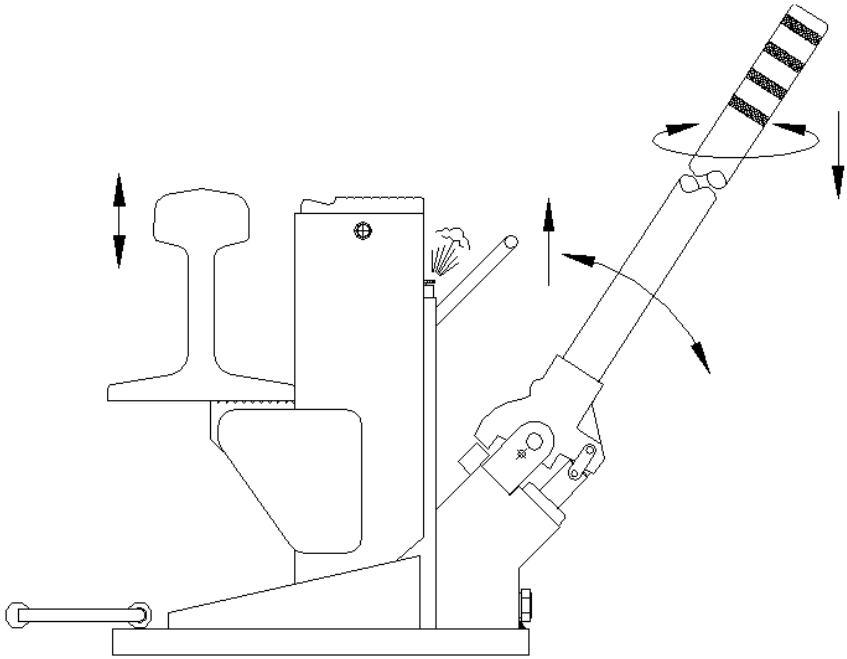
Model F805BR



Model F805/50



Model F1527



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TRACK TOOLS

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