

UPDATING THE MYFORD ML7 ONE-SHOT LUBRICATION SYSTEM

Tony Jeffree offers a lower component count making for a cheaper system



Photo 1.



Photo 2.



Photo 3.

Arc part number	Old Quantity	New Quantity	Description
084-025-00001	1	1	Pull handle oiler
084-025-00250	4	4	90 degree elbow hose adapter
084-025-00500	5	5	Banjo assembly
084-025-00606	1	1	Junction bar 6-way
084-025-00608	1	1	Junction bar 8-way
084-025-00602	6	2	Junction bar 2-way
084-025-00603	1	1	Junction bar 3-way
084-025-00100	5	3	AJB0 meter unit
084-025-00111	NONE	2	ASA(S)0 meter Unit - M8X1.0
084-025-00101	4	4	AJB1 meter unit
084-025-00120	NONE	2	ASA(R)2 meter unit - 1/8" BSPT
084-025-00102	2	NONE	AJB2 meter unit
084-025-00700	6	6	metres 4mm Nylon tube
084-025-00750	6	6	metres Spring Tube Guard for 4mm Nylon tube
084-025-00760	5	5	packs Ferrules for Spring Tube ends - pack of 6
084-025-00300	5	4	packs 4mm compression bushings - pack of 6
084-025-00350	6	4	packs 4mm compression sleeve (olives) - pack of 6
084-025-00800	1	1	packs 6mm tubing clip (1 tube) - pack of 4
084-025-00810	1	1	packs 6mm tubing clip (2 tubes) - pack of 4
084-025-00400	1	1	Blanking plug

OVERVIEW

In MEW issue 161, I described how to fit a one-shot lubrication system to the Myford ML7, using the components available from Arc Euro Trade. At the time I fitted the system, the metering units that were available from Arc were ones that were designed to be fitted into a manifold, and as a consequence, in some places I had to use 2-port manifolds as adapters to couple the nylon tube to the metering units. This led to a slightly ugly arrangement in some of the lubrication points, particularly the two headstock bearing points (**photo 1**) and the two leadscrew bearings (**photo 2**).

Since I wrote the article, Ketan at Arc Eurotrade has been able to source two new types of metering unit that are designed to be fitted directly into an oiling point. The first type is threaded 1/8in. BSP on its output side, and screws directly into the headstock bearing caps, and the second type is threaded M8 x 1.0, and screws directly into the 90 degree elbow adapters or the Banjo assemblies, or if appropriate can be screwed directly into an oiling point.



Photo 4.



Photo 5.

These metering units can be seen in **photo 3**; the pair on the left are the M8 threaded units, the pair on the right are threaded 1/8in. BSPT. In both cases they are fitted with screw caps and compression sleeves (olives) at the inlet side so they can take a 4mm nylon tube without further adaptation. Consequently, these units can simplify the plumbing arrangement used for the headstock and leadscrew bearings, as can be seen in **photo 4** and **photo 5** respectively. The M8 threaded unit screws directly into the Banjo assembly that is

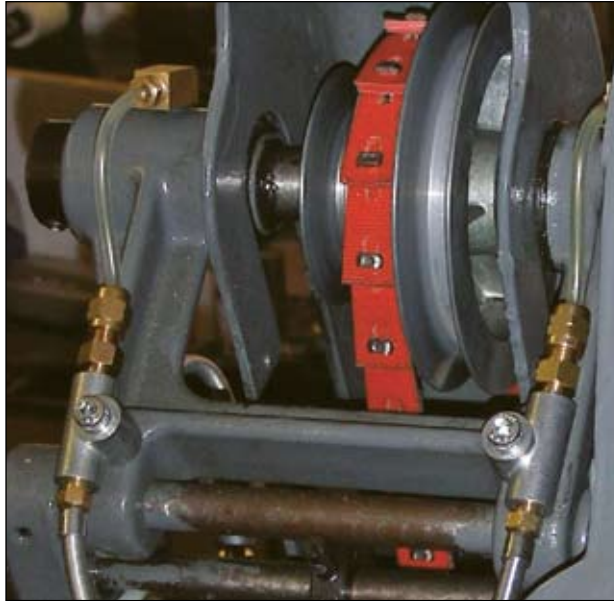


Photo 6.

fitted to each of the leadscrew bearings; I used Loctite threadlocker on the M8 threads to seal the joint before screwing the metering unit into the banjo assembly. The 1/8in. BSPT metering units are a taper thread, so the harder you screw them into the bearing shells, the tighter the thread "fit" will be; there isn't any real need to seal the threads any better than they will seal as a result of the taper fit.

The M8 threaded units could also be used for the countershaft bearings, where they would screw directly into the 90

degree elbow hose adapters used at these points; however, as the metering units would then stick out to the back of the countershaft bearings I felt that there was no need to change the existing arrangement shown in **photo 6**.

These changes obviously have an impact on the bill of materials for the job. The following table shows the Arc Euro Trade part numbers and the old and new quantities required. Rows in the table that have changed as a result of these modifications are shaded. The result is a useful reduction in the overall cost of installing the oiling system. ■

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