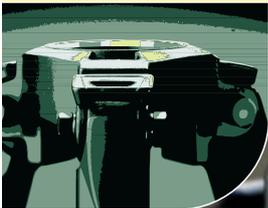


SOLO TRIPOD SERIES Operator's Manual



#1630 Solo DV

75mm 2-Stage Alloy Tripod

#1501 Solo DV

75mm 2-Stage Carbon Fibre Tripod

#1505 Solo ENG

100mm 3-Stage Tripod



MILLER 

Features and Controls

75mm Bowl (#1501 & #1630)
100mm Bowl (#1505)

Leg Angle Adjuster

Leg Mounting Bolt

Shoulder Strap Mounting Point

Protective Leg Cover

Leg Lock Direction Label (also leg strap mounting point)

Upper Concentric Lock

Middle Concentric Lock (#1505 only)

Lower Concentric Lock

Screw Down Rubber Foot

Steel Spike

**#1630 SOLO DV
75mm 2-stage
Alloy Tripod**

**#1501 SOLO DV
75mm 2-stage
Carbon Fibre Tripod**

**#1505 SOLO ENG
100mm 3-stage Tripod**

Introduction

Thank you for purchasing the Miller SOLO tripod.

SOLO is a professional tripod, compatible with most 75/100mm ball levelling pan & tilt heads. SOLO is designed to support lightweight MiniDV and DVCAM camcorders in location and studio production.

The telescopic carbon fibre tubing ensures optimum rigidity and rapid deployment, while the leg angle lock eliminates the need for a tripod spreader. As a result, SOLO ENG features an operating height range from a low 22cm (8.7") up to an impressive 187cm (73"), with maximum support stability maintained across the operating range.

Magnesium leg top and aluminium diecast components deliver the ultimate in lightweight durability while the padded carry bag, detachable leg strap and rubber/spike complete a truly professional support package.

Technical Data

Cat#	1630 SOLO DV	1501 SOLO DV	1505 SOLO ENG
Bowl Diameter	75mm	75mm	100mm
Tube Configuration	2 Stage telescopic	2 Stage telescopic	3 Stage telescopic
Tube Material	Alloy	Carbon fibre	Carbon fibre
Maximum Load kg (lb)	20 (44.1)	20(44.1)	30(66)
Weight kg (lb)	2.9 (6.4) (including shoulder strap)	2.5 (5.5) (including shoulder strap)	3.1 (6.8) (including shoulder strap)
Max Height mm (in)	1625 (64)	1614 (63.5)	1870 (73.6)
Min Height mm (in)	234 (9.2)	234 (9.2)	220 (8.7)
Transport Length mm (in)	700 (27.6)	694 (27.3)	658 (25.9)

Operation Manual

Please read this manual carefully prior to using the SOLO tripod. Do not omit any steps.

The manual contains important set-up, pull-down, adjustment, safety and maintenance information and should be read in conjunction with the operating manuals of the fluid head and camera you have chosen to complement your SOLO tripod.

Tripod Setup

Fig 1 Collapsed position



Remove tripod from carry bag, undo clip on leg strap and stand on a level surface (if possible). Depending on surface, screw out rubber foot for non-scratch contact to interior or hard surfaces or screw in for a spike on exterior soft surfaces such as dirt or sand.

Note: Leg angle adjusters are spring loaded and self adjusting. Do not hold leg angle adjuster up while spreading tripod legs as this may cause leg angle adjusters to operate improperly and potentially damage the tripod.

Maximum Height

(Leg angle adjustment is not required)

- 1 Separate legs slightly so they are parallel.
- 2 Working with each leg individually, grip concentric locks and release one turn (see leg lock direction label on leg).
- 3 Extend to desired length and turn each concentric lock to engage firmly. Repeat process for remaining legs.
- 4 Spread tripod legs (Fig. 2) and adjust leg length to ensure tripod bowl is approximately level.
- 5 Level the fluid head using bubble level and ball levelling feature of fluid head.



Fig 3 Leg angle adjuster raised



Minimum Height

Note: It is recommended that minimum height position is used only with legs at their shortest length.



- 1 Pull up leg angle adjuster until it locks into a raised position (Fig. 3). Repeat for all three locks.
- 2 Holding one leg on the ground pull the remaining two outward, spreading the tripod to its lowest position. Leg angle adjuster will automatically engage the leg to hold the tripod at its lowest height position (Fig. 4).

Fig 4 Lowest height position



Tripod Setup (cont)

Tripod Pull Down

Mid Position

Note: This refers to the mid leg angle position, not necessarily the height of the tripod.

The SOLO tripod has three leg angle positions. The middle leg angle position (Fig.7) is self-engaging after closing leg from fully spread position (Fig.6). The mid position is chosen for optimum stability in the 50-130cm tripod height range, but is not recommended if the tripod is being used in a crowded situation, due to the wide diameter, or footprint spread, of the extended tripod.



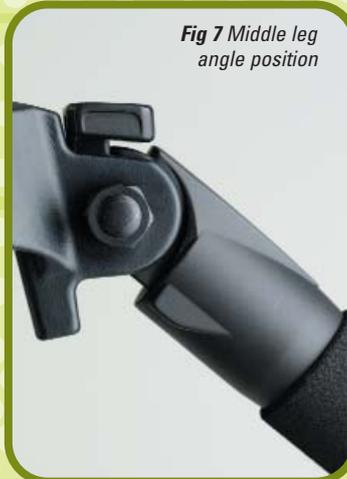
Fig 5 Leg angle adjuster raised



Fig 6 Spread Position



Fig 7 Middle leg angle position



- 1 Remove camera from fluid head.
- 2 Close the tripod legs so all are pointing straight down and disengage all concentric locks.
- 3 Holding the bowl, lower tripod to its shortest length and re-engage concentric locks.
- 4 Close legs together fully (Fig. 1) fit leg strap and return tripod to carry bag if finished shooting.

Shoulder Strap



SOLO's Shoulder Carry Strap can be used looped (both ends attached to the mounting point on the bowl), to carry the tripod on one shoulder,

OR

it can be used attached to the bowl and the Leg Strap "D" ring, to carry the tripod across your back with fluid head towards the ground.



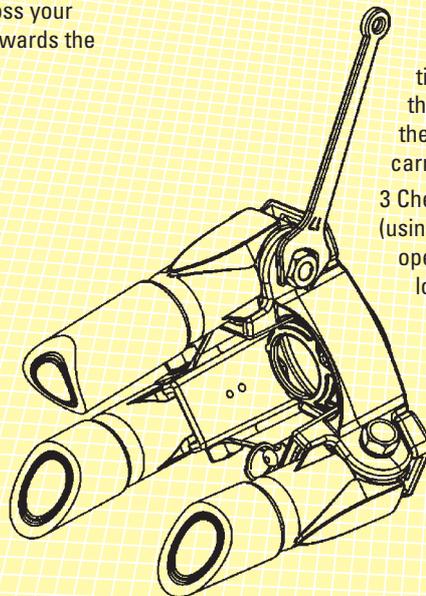
Leg Pivot Adjustment

The leg to bowl pivot joint on the SOLO tripod should have no lateral movement and should swing with a firm, smooth resistance. As this is a spreader-less tripod, the leg pivot joint requires sufficient resistance to hold the tripod legs together while being hand carried. Adjustment is usually not required, however, should it become necessary, the following procedure must be observed.

1 Lay tripod on a flat surface with legs closed in transport position.

2 Using 17mm spanner (supplied), gently tighten nut to achieve firm, smooth movement of the leg while still having sufficient tension to hold the legs together when tripod is being hand carried.

3 Check leg resistance by swinging leg fully open (using leg angle adjuster) and ensure that all legs open with a similar degree of effort. Tighten or loosen bolts as necessary.

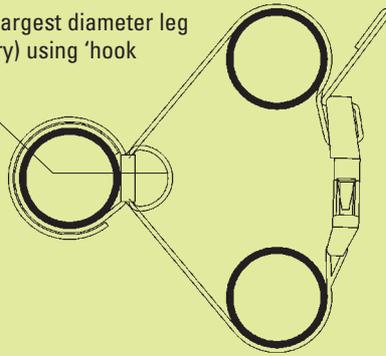


Important: Remember not to over-tighten as this may cause too much resistance when swinging the legs open.

Leg Strap

The Leg Strap is attached to largest diameter leg tube (as delivered from factory) using 'hook and loop' tape.

The Leg strap also has a "D" ring attachment point for the shoulder strap if required. Check the Leg Strap periodically to ensure hook and loop tape is secure.



Maintenance

Regularly inspect tripod for damage or grit. Pay particular attention to carbon fibre tubes, concentric locks, leg angle adjusters, condition of bowl, feet and general operation of the tripod.

Keep grit and dirt out of leg angle adjusters. If leg angle adjusters or legs grind or stick during operation they may have grit in contact with their sliding surfaces. The affected parts will require disassembly and cleaning. Failure to do so may result in excessive wear and breakage of tripod components.

Regularly clean tripod with a damp rag or soft brush. Wipe off all sand, dust and salt spray. Do not clean with solvents, cleaning fluids, lubricants, polishes, abrasives or wire brushes.

Transport and store tripod in Miller bag or case wherever possible. Store tripod in a dry place, away from direct sunlight.

Safety

Read the Operator's Manual

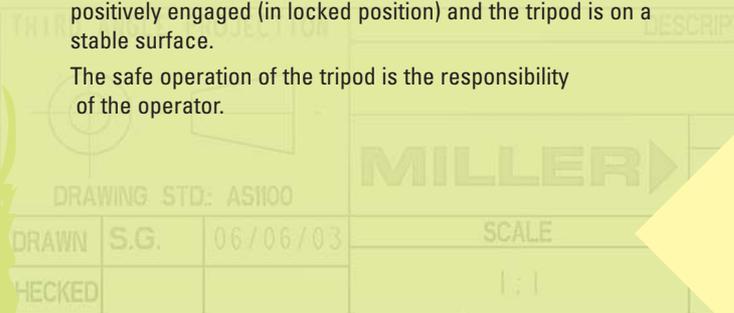
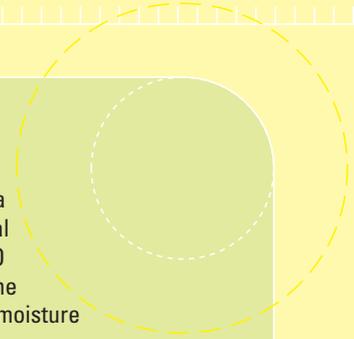
Miller recommends that all camera support equipment should be carried in a carry bag to reduce the risk of accidental damage during transport. All Miller SOLO systems include a carry bag to protect the tripod and reduce exposure to dust and moisture during transport and storage.

Ensure that the weight of the camera/lens/battery payload mounted on your tripod does not exceed the recommended capacity of the fluid head. This will ensure that the tripod and fluid head you have chosen will operate to their specification. Note that any offset payload, such as a telephoto lens, will exert a forward offset load on the support system. Refer to your fluid head users guide to ensure these loads are properly balanced.

Never set up or pull down a tripod while a camera is mounted on it.

The camera base should be fastened to a suitable camera plate and tripod plate prior to mounting. The camera should be attached to the fluid head only after all tripod leg locks are positively engaged (in locked position) and the tripod is on a stable surface.

The safe operation of the tripod is the responsibility of the operator.



SOLO System Configurations Service and Sales Support

Cat # 75mm Systems

- #1637 SOLO 5 Alloy: SOLO DV 75mm Alloy Tripod (1630) with DS5 Fluid Head, Softcase (1518)
- #1640 SOLO 10 Alloy: SOLO DV 75mm Alloy Tripod (1630) with DS10 Fluid Head, Softcase (1518)
- #1511 SOLO 10 Carbon Fibre: SOLO DV 75mm Carbon Fibre Tripod (1501) with DS10 Fluid Head, Softcase (1518), Shoulder Strap (1520)
- #1643 SOLO 20 Alloy: SOLO DV 75mm Alloy Tripod (1630) with DS20 Fluid Head, Softcase (1518)
- #1514 SOLO 20 Carbon Fibre: SOLO DV 75mm Carbon Fibre Tripod (1501) with DS20 Fluid Head, Softcase (1518), Shoulder Strap (1520)

Cat # 100mm Systems

- #1793 SOLO Arrow 25: SOLO ENG Tripod (1505) Arrow 25 Fluid Head (1022) Pan Handle (689) Shoulder Strap (1520) Softcase (872)
- #1709 SOLO Arrow 40: SOLO ENG Tripod (1505) Arrow 40 Fluid Head (1025) Pan Handle (692) Shoulder Strap (1520) Softcase (872)

Optional

Cat#	Description		
#394	Solo Dolly	#1590	Solo Leg Covers (3)
#1520	Shoulder Strap	#1518	Carry Bag
#872	Softcase (padded)	#1521	Transport Strap
#P6005	17mm Spanner		

Miller Authorised Service Agents must carry out all service and repair work on SOLO tripods. Failure to observe this requirement may void warranty. It is advisable to notify Miller or a Miller Authorised Service Agent if a change of performance is observed as a result of impact or rough usage. For information regarding sales and service of Miller products, or for your nearest Miller representative, please contact us via our website or at the following:

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 Fax: +61 2 9438 2819
 Email: sales@miller.com.au

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Warranty Please refer to warranty card for complete details

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Website
www.millertripods.com