

Support
Camera

MILLER

#711 Projib Jib Arm



SAFETY - READ THIS OPERATOR'S MANUAL

OPERATOR'S MANUAL

PROJIB

ACCESSORIES & COMPONENTS

Cat #	Description
#715	Undermount Kit for Projib
#480	Studio HD Dolly
#483	Studio HD Dolly with Cable Guards and Track Lock
#475	Detachable Rubber Feet (set of 3)
#990	Mid Level Spreader
#974	Softcase for HD 100 & HD 150 2-stage
#309	Hardcase for HD 100 2-stage
#298	Hardcase for HD 150 & Flat Base 1 & 2 Stage
#712	Softcase for Projib

WARRANTY

The Miller Projib is warranted against any defect in material or workmanship for a period of 12 calendar months from date of purchase. Within this period, we undertake to supply replacements free of charge for any parts which may prove, on examination, to be defective provided that such defectiveness is not the result of misuse (including use with unsuitable ancillary equipment), accident or negligence and further, that the equipment was purchased from an authorised Miller Fluid Heads' distributor.

SERVICE, SALES & SUPPORT

Miller Authorised Service Agents must carry out all service and repair work. 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 dropping 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:

MILLER CAMERA SUPPORT EQUIPMENT	MILLER CAMERA SUPPORT LLC (USA)
30 Hotham Parade, Artarmon, Sydney NSW 2064 Australia Tel: +61 2 9439 6377 Fax: +61 2 9438 2819 Email: sales@miller.com.au	218 Little Falls Road, Cedar Grove, New Jersey 07009-1231 USA Tel: (973) 857 8300 Fax: (973) 857 8188 Email: sales@millertripods.us

MILLER FLUID HEADS (Europe) LTD.
Unit 12A, Shepperton Business Park
Govett Avenue, Shepperton
Middlesex TW17 8BA United Kingdom
Tel: +44 (0)1932 222 888
Fax: +44 (0)1932 222 211
Email: sales@millertripods-europe.com

WEBSITE www.millertripods.com

MILLER

INTRODUCTION

The Miller Projib is a versatile camera mount; designed to add the dimension of tracking and elevation to the normal range of movements afforded by your fluid head. It is designed for use in professional film and video production by professional support equipment operators. For safe operation of the Miller Projib, please observe the following precautions:



SAFETY INSTRUCTIONS

The Safe setup and operation of this equipment is the responsibility of the operator. This equipment is to be set up and used by qualified personnel only.

A Miller Projib, when loaded with camera, fluid head and counterbalance weights, exerts a considerable amount of leverage on the surface it is attached to. For this reason, precautions must be taken to prevent accidental over-balancing. **ACCIDENTAL OVER-BALANCING OF THE PROJIB MAY CAUSE EXPENSIVE EQUIPMENT DAMAGE AND SERIOUS PERSONAL INJURY.** The risk of over-balancing is reduced by adding suitable ballast, such as sandbags, to the base of the tripod or dolly to which the Projib is attached. **THE USE OF SUITABLE AND SUFFICIENT BALLAST IS ESSENTIAL TO SAFE PROJIB OPERATION.**

The Miller Projib is designed to attach to most professional heavy duty tripods or hi-hat type dollies. **FOR MAXIMUM STABILITY WHEN USING TWO STAGE TRIPODS, ENSURE THAT THE LOWER TUBE LEGS ARE COMPLETELY COLLAPSED.**

The total payload must not exceed the capacity of the tripod. **NOTE:** Make sure all items on the jib, (fluid head, camera and counterbalance weights), as well as the jib itself, are considered in assessing the weight of the payload. The jib is designed to carry a camera and fluid head weight up to 50 lbs. (22kg) maximum.

If the Projib is mounted on a dolly, the dolly should be of a heavy duty type with sufficient additional payload capacity to accept sandbags or similar safety ballast to prevent over-balancing as cautioned above. **FAILURE TO OBSERVE THIS PRECAUTION MIGHT CAUSE THE ASSEMBLY TO OVER-BALANCE IF THE DOLLY IS BROUGHT TO A SUDDEN STOP AT THE END OF A TRACKING MOVEMENT.**

COUNTERWEIGHTS

Miller recommends the use of standard, rubber covered circular barbell weights as suitable counterbalance for the Projib. For the average camera/fluid head payload of between 15kg (30lb) and 20kg (45lb), a suitable combination of 5kg (10lb), 7.5kg (15lb) and 10kg (20lb) barbell weights is recommended.



PROJIB SETUP

1. Remove the Projib from the protective carry case and flip over the fluid head mounting plate so that the threaded male and female mounting connectors are aligned. Join the connectors and hand-tighten only.
2. Attach the Projib to the tripod using the clamp nut provided. Note that the main body of the Projib at the pivot point is fitted with a spirit level. Adjust the legs of the tripod so that the spirit level indicates a level position for the PROJIB. **FAILURE TO LEVEL AT THIS POINT FIRST WILL PREVENT THE PROJIB FROM MAINTAINING A LEVEL POSITION THROUGHOUT THE RANGE OF MOTION OF THE PROJIB ARM - REGARDLESS OF OTHER ADJUSTMENTS!** Correct levelling of the tripod bowl or dolly hi-hat is important and should be checked regularly during operation. Do not adjust the level of the tripod or dolly with the camera fitted.
3. Loosen the lock nut that controls the motion of the sliding counterbalance arm at the rear of the Projib. Slide this arm out so as to achieve a balance in the Projib over the pivot point at the tripod.

PROJIB SETUP contd.

4. Attach a 100mm ball levelling fluid head to the jib mounting plate. View the 2nd spirit level, located on the fluid head mounting surface of Projib. If it is not indicating level, first check to make sure that the central pivot point is level. Once that is confirmed, loosen the lock ring that is located at the base of the parallel tube under the jib arm near the central pivot point at the tripod. **CAUTION! DO NOT LOOSEN THE LOCK RING FOUND NEAR THE FLUID HEAD MOUNTING SURFACE WHICH IS USED ONLY TO RETURN THE PROJIB TO STORAGE POSITION.** Once the lock ring near the center of Projib is loosened, turn the entire parallel tube beneath the jib arm in or out until the fluid head mounting surface is indicating level in the #2 bubble level. Tighten the lock ring in this position. Now level the fluid head using the bubble level on the fluid head. Once all three bubble levels are indicating level, the camera will remain level throughout the jib's operational range.

5. Mount camera to fluid head and add sufficient weights to rear of jib (or adjust length of jib counterbalance arm) to balance camera. **CAUTION: THE PROJIB COMES EQUIPPED WITH A LARGE PIN WHICH WILL PREVENT ACCIDENTAL DETACHMENT OF THE WEIGHT RETAINING NUT DURING JIB OPERATION. BE CERTAIN THAT THIS COTTER PIN IS IN PLACE DURING JIB OPERATION.**

OPERATING CONTROLS

The Projib is fitted with pan and tilt drag controls and positive tilt lock for the jib arm vertical movement. The tilt lock is easily distinguished from the tilt drag by the large cone shape thrust locker located under the tilt lock knob. Rotating the drag adjusters inward (clockwise) increases the amount of drag; counter-clockwise rotation reduces drag. Pan and tilt drag are adjusted by the operator to personal preference and to achieve correct motion for shooting requirements.

PROJIB SPECIFICATIONS

Maximum Payload	25kg (50lb)
Typical Payload	ENG Camcorders up to 20kg (44lb)
Weight	11.4kg (25lb)
Height Range	2m (78")
Dimensions (mm)	230W x 505D x 1220L
(folded down) (in)	9"W x 20"D x 48"L
Counterbalance	25mm (1") centre barbell weights
Attachment	100mm Base, 100mm bowl
Controls	Friction pan & tilt locks Adjustable tilt drag
Levelling	Adjustable levelling arm. Dual bubble levels mounted at tripod base and fluid head mount
Min Tripod Req.	HD-style tripod with minimum 24mm (1") tube diameter.