

skyline

90

Fluid Head

OPERATOR'S MANUAL

#1085 Skyline 90 Fluid Head



Features and Controls

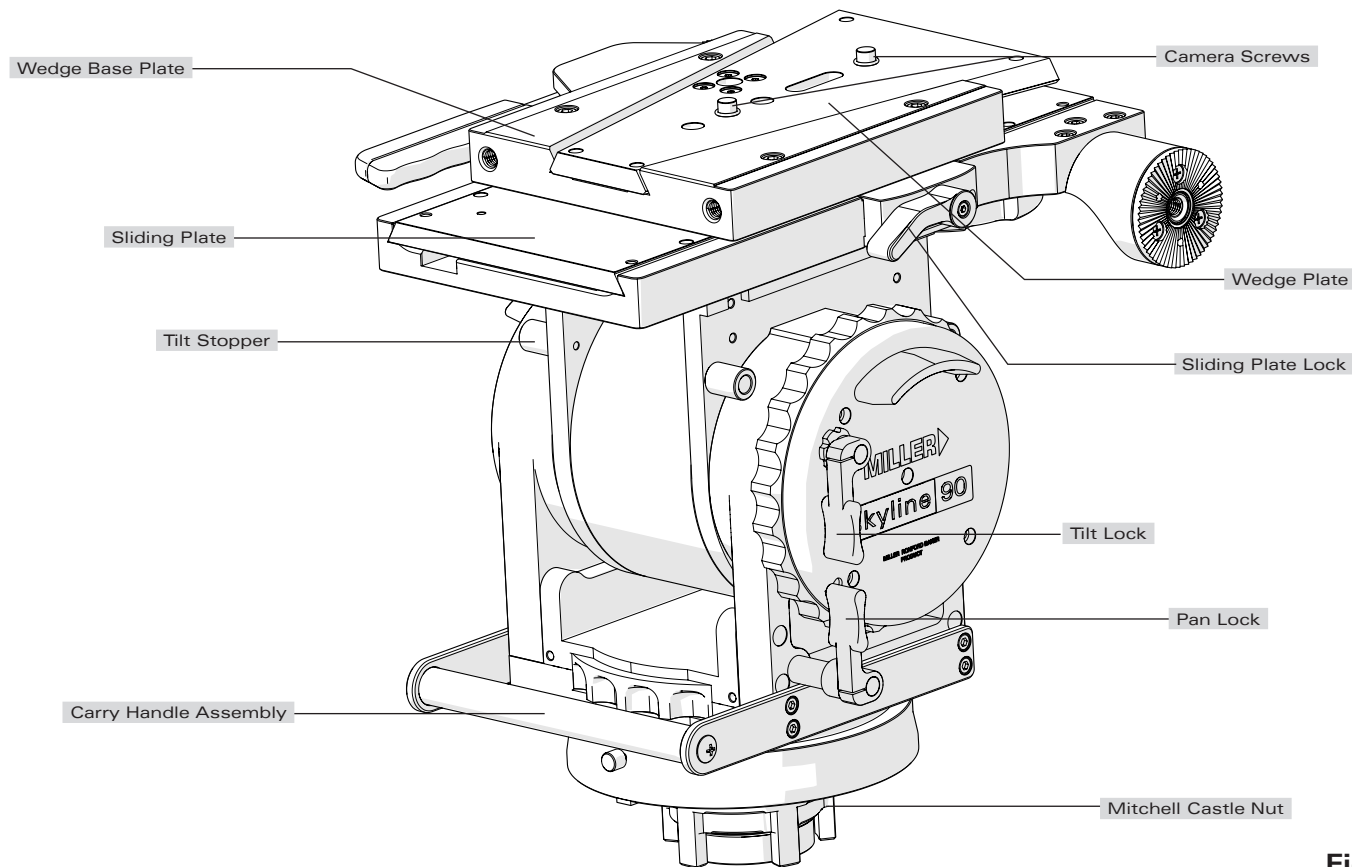


Fig. 1

Features and Controls

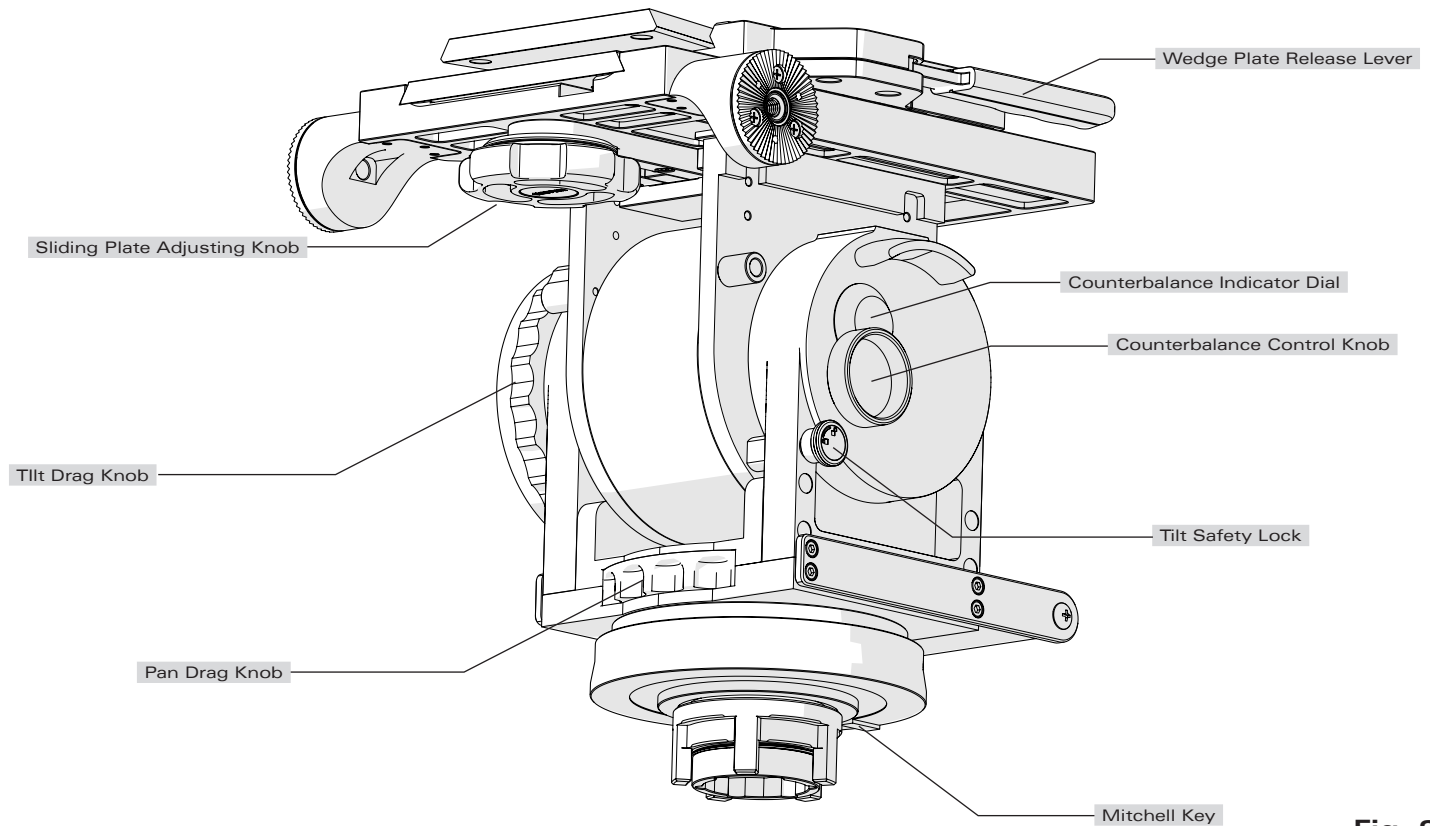


Fig. 2

Introduction

Thank you for purchasing the Skyline 90 Fluid Head. The Skyline 90 Fluid Head has been designed to suit payload capacities of EFP, OB and Studio camera systems up to 75 kg (165.4 lbs).

The robust design and construction of the Skyline 90 Fluid Head offers maximum stability, accuracy and durability and includes precision ball bearing mounted Fluid Drag system in the Pan and Tilt assembly to deliver true fluid drag performance over the entire temperature and payload range.

The Fluid Drag and the Counterbalance system were designed to provide excellent control and repeatability and offer progressive increments of drag and torque.

The Skyline 90 Fluid Head incorporates a Mitchell base design for use with all standard Mitchell base mounts.

This Miller product also utilises a Wedge Plate for camera mounting to provide secure and fast set ups and change overs.

Please use this manual to familiarise yourself with the operation of the Skyline 90 Fluid Head and observe these instructions to prevent any damage to your equipment. Ensure that all equipment is operating correctly and free from defects and damage, also please ensure that the tripod is steady, secure and that the bowl is approximately horizontal when attaching the camera. The operator is responsible for the safe operation of this piece of equipment.

Safety Instructions

- Do not exceed the maximum payload capacity of the Fluid Head.
- Do not leave the camera unattended on the Fluid Head.
- Do not release the SLIDING PLATE LOCK whilst the camera is at an angle.
- Do not adjust the tripod whilst the camera is attached to the Fluid Head.
- Ensure PAN HANDLE CLAMP and MITCHELL CASTLE NUT are securely tightened.
- Apply TILT SAFETY LOCK when adding/removing equipment from the camera or when attaching/removing the camera from the Fluid Head.
- Hold camera securely whilst changing Counterbalance, Pan Drag or Tilt Drag settings.
- Hold the camera securely whilst using the WEDGE PLATE RELEASE LEVER.
- Remove camera whilst tightening / loosening the MITCHELL CASTLE NUT.

Technical Data

Weight	23.0 kg (50.7 lbs)
Payload Range	0 – 75 kg (0 – 165.4 lbs)
Maximum Capacity	75.0 kg (165.4 lbs)
Tilt Drag	15 Selectable fluid drag positions + 0
Tilt Range	+60° / -60°
Tilt Lock	Positive lock brake system plus Tilt Safety Lock.
Pan Drag	15 Selectable fluid drag positions + 0
Pan Range	360°
Pan Lock	Positive lock brake system
Counterbalance System	Continuous adjustment (0 - 100%)
Camera Platform	Quick release wedge plate
Mounting Base	Mitchell base with industry standard 4-hole flat base (3/8")
Ball Level	2 x bubble level
Handle	2 x telescopic pan handles with adjustable reach & angle.
Temperature range	-40° C to +65° C (-40° to +150° F)
Construction	Lightweight hi-strength billet aluminium alloy components
Sealing	Water & dust resistant
Finish	Durable black ripple (low sheen) with anti-corrosive pre-treatment, anodised alloy components
Warranty	3 Years.

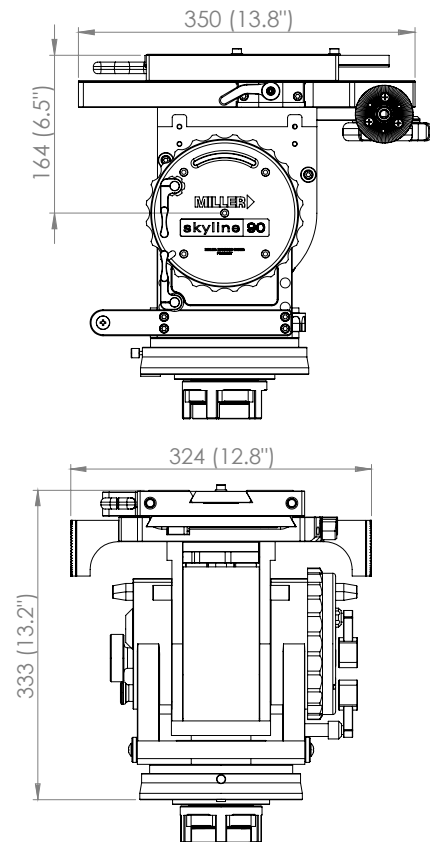


Fig. 3

Operating Instructions

The operating instructions are described in three steps. Please read and understand these instructions before using this equipment. Do not omit any steps.

The Skyline 90 Fluid Head can be mounted on a MITCHELL BASE only.

1 Fluid Head Set-up (Mitchell Base)

- 1.1 Ensure the Tripod, Jib, Pedestal etc. is level before placing head on Mitchell Base.
- 1.2 Place Fluid Head on a Mitchell Base, ensure that the keyway insert on head has engaged in the keyway slot on Mitchell Base.
- 1.3 Tighten the Mitchell Castle Nut to Mitchell Centre Screw.
- 1.4 Add the Pan Handles to serrated boss, position to your desired angle and length.
- 1.5 Set the initial control settings as follows – see Figure 1 & 2:
 - Select Counterbalance to position 100% (top setting).
 - Select Pan & Tilt drag to position 0.
 - Engage the Tilt Safety Lock.

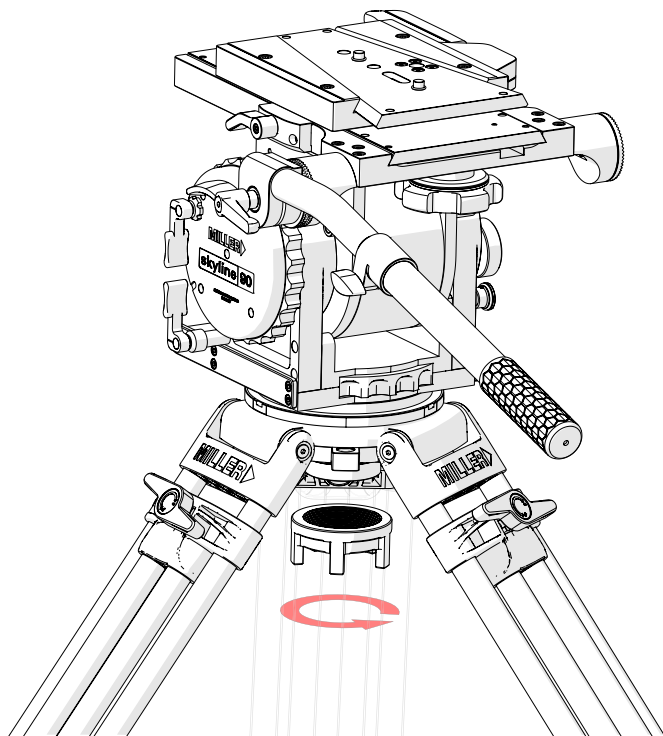


Fig. 4

Operating Instructions

2 Camera Set-up

- 2.1 Remove the WEDGE PLATE by pulling WEDGE PLATE RELEASE LEVER forward and swiveling outward.
- 2.2 Refer to the Camera's owners manual for correct method of attachment to the WEDGE PLATE.
- 2.3 Attach camera accessories and the battery to the camera, it is recommended to estimate the camera's Centre of Gravity (C of G) for the purpose of correctly positioning the camera on the WEDGE PLATE. The camera's C of G can be estimated by placing the camera on a round rod and then shifting it backwards or forwards until a balance point. It is recommended to identify this point on the camera as it will be useful in step 2.6.
- 2.4 At this point it is advised to engage the tilt lock and it is best to position the pan/tilt knobs in the maximum position as well as turning counterbalance knob to at least 80% (this will ensure no sudden tilting when camera is placed on the head).
- 2.5 Engage the WEDGE PLATE with the WEDGE BASE PLATE on SKYLINE 90 Head and lock off by returning the WEDGE PLATE RELEASE LEVER.
- 2.6 Release the SLIDING PLATE LOCK and adjust the SLIDING PLATE (turn SLIDING PLATE KNOB) such that the camera's C of G is directly above the centre axis of the Fluid Head and tighten the SLIDING PLATE LOCK (fig.5). If this can not be achieved then reposition the WEDGE BASE PLATE on the SLIDING PLATE (there are three points this can be done). This will ensure that the system has maximum stability.

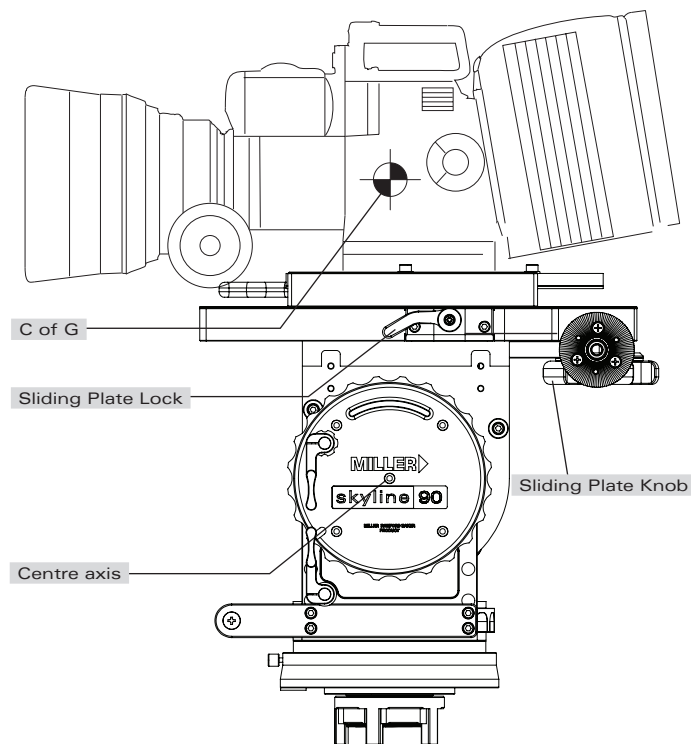
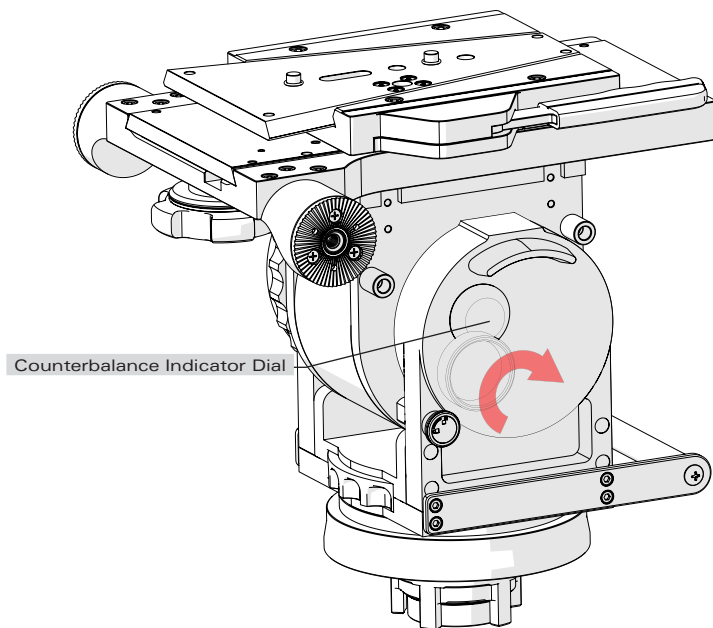


Fig. 5



3 Counterbalance Control

The counterbalance system was designed to neutralise the effect of the camera weight when it is tilted. The Skyline 90 Fluid Head offers a continuous counterbalance system which can be operated via the COUNTERBALANCE SELECTOR (fig. 6). The COUNTERBALANCE SELECTOR must be operated when the SLIDING PLATFORM is in a horizontal position.

- 3.1 Hold the camera and disengage the Tilt Safety Lock (ensure you have set the counterbalance to at least 80%) move the tilt drag setting to 0 (zero).
- 3.2 Gently tilt the camera from a horizontal position forward then backward and observe its response. If the Camera 'springs back' to the horizontal position then a lower Counterbalance setting is required, drop the setting by 10 units on the Counterbalance position and recheck, select lower setting again if necessary.

Inversely if the camera is dropping further forward when tilted then not enough counterbalance is selected, increase by 10 units (or until camera no longer drops at set tilt position).

Correct counterbalance setting has been achieved when minimum effort is required to move the camera over the entire tilt range.

Fig. 6

Maintenance & Storage

The Skyline 90 Fluid Head can be stored for extended periods; Miller recommends storage in a Miller Skyline 90 Head Case (#3348) and the following:

- Clean the external surfaces (do not use stiff brushes, abrasives, harsh detergents and solvents).
- Keep in a dry place away from direct sunlight.
- Loosen off Pan / Tilt Locks and engage Tilt Safety Lock.
- Ensure Sliding Plate is centralised.
- Remove Pan Handles.

Spare Parts and Accessories

ITEM	ITEM NO.
Wedge Plate Assembly	3336
Tele Handle Rod / Clamp Ass’y S90	3342
Mitchell Centre Screw & Nut Ass’y	3346
Skyline 90 Head Case	3348

See Skyline 90 Spare Part Manual for more items

Warranty

Please refer to warranty card for complete details,

Alternatively you can register your product via our warranty registration page. Scan below for details.



Service, Sales and 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:

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