



**ONBOARD SYSTEMS  
INTERNATIONAL**

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## SERVICE BULLETIN

Document No. 159-006-00, Rev 0  
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**Subject:** Installation of the **Analog Meter** with Onboard System's Electronic Load Weigh Systems.

**Description:** The Analog Meter duplicates the reading of the Electronic Load Weigh System in an analog format. The Meter is used when the pilot prefers the analog format or it can be used as a copilot display or window mount.

The Analog Slave Meter is enclosed in a standard 3 1/8" instrument package. It attaches electrically to the Load Weigh System by a single connector provided in the existing Weighing System Internal Harness. Both power and signal are provided by the connector.

**Compliance:** Optional

**Helicopters Affected:** All aircraft equipped with the following Onboard Systems Load Weigh System.

Model	Helicopter	STC
E-77	Bell 204,205,212,412,UH-1H	SH5707NM
E-69	Eurocopter AS350	SH1262NW
E-46	Sikorsky S-58	SH5780NM
E-70	Eurocopter AS355	SH1635NM
E-53	Eurocopter 330,332	SH4904NM
E-48	Eurocopter SA315	SH4928NM
E-47	Bell 204,205,212,412	SH4751NM
E-73	Bell 222	SH4793NM
E-74	MBB BK117	SH4986NM
E-51	Hughes 369	SH4908NM
E-72	Bell 206L/407	SH4935NM
E-45	Bell 206A/B	SH4932NM
E-62	Bell 214B	SR00408SE
E-84	Sikorsky S-61	SR00681SE
E-82	Robinson R22	SR00557SE
E-83	Robinson R44	SR00578SE
E-85	Bell 206L/407	SR00418SE
-	Bell 206A/B	SR00649SE



**Approval:** The engineering design aspects of this bulletin are FAA/DER approved.

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**Manpower:** Approximately 0.5 man-hours will be required to install the Analog Slave Meter. Man-hours are based on hands-on time and may vary with personnel and facilities available.

**Required Material:** The following material is required to accomplish this bulletin and may be obtained from Onboard Systems:

P/N 210-180-00	Analog Slave Meter	Quantity 1
P/N 215-010-00	Placard	Quantity 1
P/N 270-059-00	5' Cable	Quantity 1 *
P/N 270-059-12	12' Cable	Quantity 1 *

\* Only one cable is required

**Special Tools:** None

**Weight:** 15 ounces

**Electrical Load:** 0.15 amps

**Publications affected:** None

**Accomplishment Instructions:**

1. Place the "ELECTRONIC WEIGHING SYSTEM" circuit breaker in the off position.
2. Install the Analog Slave Meter in the desired location.
3. Locate the existing Weighing System Internal Harness and the connector labeled DATA.
4. Attach the 270-059-00 or 270-059-12 cable to the DATA connector and to the Meter.
5. Secure the cable clear of flight control rods and hydraulic lines.
6. Install the placard 215-012-00 "TURN THE WEIGHING SYSTEM OFF WHEN NAVIGATION EQUIPMENT IN USE" "NO AIRCRAFT OPERATION SHOULD BE PREDICATED ON THE READING OF THE ONBOARD WEIGHING SYSTEM" next to the Meter.
7. After the system has been properly installed, activate the circuit breaker to turn the system on. Refer to the Owners Manual supplied with the Load Weigh System.
8. The installers authorized inspector (AI) must accomplish both a satisfactory ground and flight EMI test for each installation. (Ref AC: 25-10 paragraph 5(m) and 5(n) Special emphasis is needed for those helicopters equipped with electronic fuel control, electronic stability augmentation systems, electronic flight controls, or any other electronic device which could affect the rotor craft safety.
9. Make logbook entry.



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**Figure 1 Installation**

