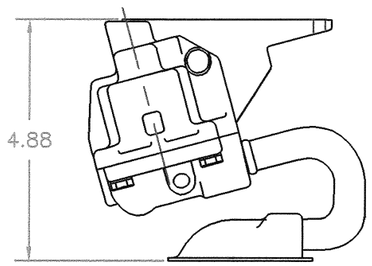
M98007
REV. C

INSTALLATION INSTRUCTIONS



During installation check for proper clearance between the oil pump and the cap on the #4 connecting rod. GM 2.2L engines prior to 1994 had connecting rod caps with multiple sizes of rectangular balance pads. In some cases this results in marginal or no clearance between the oil pump and the connecting rod cap. When this occurs grind the corner off the oil pump being careful not to allow any contamination into the oil pump assembly. After grinding clean off the outside of the oil pump and check for proper clearance before installing the pickup screen.

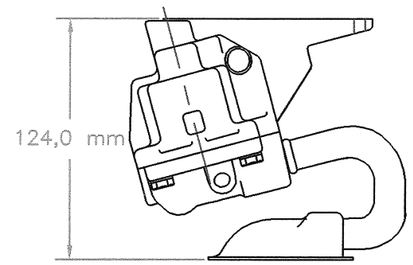
When installing the pickup screen review the clearance between the bottom of the screen and the oil pan. The dimension shown above will aid in locating the screen properly from the bottom of the oil pan.

5.50

4.25

FRONT

INSTRUCCIONES DE INSTALACION



Durante la instalacion checar el claro adecuado entre la bomba de aceite y la tapa en la biela No. 4.

Los motores GM 2,2L anteriores a 1994 tienen tapas de biela con tamanos multiples de patrones de balance rectangular.

En algunos casos esto resulta en un claro marginal o ninguno enter la bomba de aceite y la tapa de la biela. Cuando esto suceda, esmerilar la esquina de la bomba de aceite teniendo cuidado de no permitir ninguna contaminacion dentro del ensamble bomba de aceite. Despues de esmerilar limpiar perfectamente el exterior de la bomba y verificar el claro adecuado antes de instalar el colador.

Al instalar el colador verificar el claro enter la parte inferior del colador y el carter. La dimension mostrada arriba le ayudara para posicionar adecuadamente el colador a la base del carter.

BACK

SUPERSCEDES ALL PRINTS PRIOR TO THIS DATE: _____

ENGINEERING APPROVAL OF FIRST PRODUCTION SHIPMENT FROM EACH SUPPLIER IS REQUIRED PRIOR TO AUTHORIZATION FOR USE ON MELLING PRODUCTION. NEW SAMPLES REQUIRED BEFORE ANY CHANGE IN PRODUCTION PROCESSING FOR ENGINEERING FUNCTIONAL TEST AND APPROVAL.

MATERIAL:

White Paper: 4.25" Wide x 5.50" High

LTR	DATE	REVISION	ECR	LOC
C	3/25/03	CHANGED . TO , IN SPANISH NUMBERS	2688	--
B	3/25/03	CHANGED SPANISH DIM. TO MM	2688	--
A	5/7/99	SPANISH ADDED	2130	--

THE FOLLOWING ITEMS APPLY UNLESS OTHERWISE SPECIFIED: FOR FEATURES OF SIZE, PERFECT STRAIGHTNESS NOT REQUIRED AT MMC. FOR DIAMETRAL FEATURES, ROUNDNESS, MUST BE WITHIN THE MMC. AND LMC(LEAST MATERIAL CONDITION) BOUNDARY. TRUE POSITION TOLERANCES, AND RELATED DATUMS(EXCEPT PLANE SURFACES), APPLY AT MMC. OTHER GEOMETRIC TOLERANCES, AND RELATED DATUMS, APPLY AT RFS. SEPARATE TRUE POSITION CALLOUTS MAY BE GAGED SEPARATELY, REGARDLESS OF DATUM REFERENCE.

GEOMETRIC DRAWING SYMBOLS

FLAT	TRUE POSITION	ROUND	CYLINDRICAL
STRAIGHT	RUNOUT	ANGULAR	CONCENTRIC
SQUARE	DIAMETER		SYMMETRICAL
PARALLEL	PROFILE OF SURFACE		PROFILE OF A LINE
MAXIMUM MATERIAL CONDITION(MMC)			BASIC DIMENSION
REGARDLESS OF FEATURE SIZE			(xxx) REFERENCE
PROJECTED TOLERANCE ZONE			

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED THE FOLLOWING TOLERANCES APPLY:

METRIC DIMENSIONS

±.25 ALLOWED ON ONE PLACE DECIMALS
±.13 ALLOWED ON TWO PLACE DECIMALS
±.013 ALLOWED ON THREE PLACE DECIMALS
±0°30' ON ANGULAR DIMENSIONS.

ENGLISH DIMENSIONS

±.015 ALLOWED ON ONE PLACE DECIMALS
±.010 ALLOWED ON TWO PLACE DECIMALS.
±.005 ALLOWED ON THREE PLACE DECIMALS.
±.0005 ALLOWED ON FOUR PLACE DECIMALS
±0°30' ON ANGULAR DIMENSIONS.

MELLING TOOL COMPANY
P.O. BOX 1188, JACKSON, MICHIGAN 49204
ENGINEERING COMPONENTS
PRODUCT ENGINEERING

REF. M98 | SHT. 1 OF 1

DRAWN BY	COMPLETED	CHECKED	APPROVED	SCALE
MJO	5/7/99	MMT	3/25/03	FULL

DO NOT SCALE

TOLERANCES NOT OTHERWISE SPECIFIED
MACHINED DIM.± STAMPED DIM.±
ANGULAR DIM.± DIM.±

MATERIAL: SEE NOTE
APP. MMT
DATE 3/25/03

NAME SHEET-INSTALLATION

PART NO. M98007