

# 3M

W-2806/07006\*

## Compressed Air Filter and Regulator Panel

User Instructions  
\* Automotive Part Number

## Panneau de filtration et de régulation d'air comprimé

Directives d'Utilisation  
\* Numéro de pièce automobile

## Filtro panel regulador con aire comprimido

Instrucciones  
\* Número de parte automotriz

## Painel Filtrante do Ar Comprimido e Regulador

Instruções de uso  
\* Número da Peça Automotiva

**IMPORTANT:** Before use, read and understand these *User Instructions*. Keep these *User Instructions* for reference.

**IMPORTANT - Avant de se servir du produit,** l'utilisateur doit lire et comprendre les présentes *Directives d'Utilisation*. Conserver ces *Directives d'Utilisation* à titre de référence.

**IMPORTANTE:** Antes de usar el producto, el usuario debe leer y entender estas *Instrucciones*. Conserve estas *Instrucciones* para referencia futura.

**IMPORTANTE:** Antes do uso, le o entender estas *Instruções de uso*. Manter estas *Instruções de uso* para fins de referência.

## FORWORD

**Contact Information**  
Read all instructions and warnings before using. Keep these *User Instructions* for reference. If you have questions regarding these products contact 3M Technical Service.

**In United States:**  
Website: [www.3m.com/PPE/Safety](http://www.3m.com/PPE/Safety)  
Technical Assistance: 1-800-243-4630

**In Canada:**  
Website: [www.3m.com/CA/PE/Safety](http://www.3m.com/CA/PE/Safety)  
Technical Assistance: 1-800-267-4414

## Product Description

The 3M™ Air Filter and Regulator Panel W-2806 is intended to filter and regulate compressed air to be used without auxiliary respiratory protection systems. Air supply pumps, fittings, and compressors must have the capacity to deliver sufficient air volume to operate each air regulating valve at the required pressure specified in the air control device *User Instructions*.

## List of Warnings and Cautions within these User Instructions

### ▲ WARNING

- The W-2806 is intended to filter and regulate compressed air to be used without auxiliary respiratory protection systems. **Misuse may result in sickness or death.** For proper use, see supervisor or *User Instructions*; or call 3M U.S.A., 1-800-243-4630. In Canada, call Technical Service at 1-800-267-4414.
- The W-2806 must not be used when there is oxygen deficient air. Use with oxygen deficient air may result in sickness or death.
- To meet NIOSH requirement 42 CFR 84, subpart 84.150 for minimum and maximum airflow (4-15 cfm, 113-425 lpm), the air control valves approved for use with 3M respirators must be operated within the supply pressure ranges and hose lengths stated in their *User Instructions*. The line pressure must be kept within specified limits. **Failure to do so may adversely affect respirator performance and result in sickness or death.**
- In the USA, you must comply with OSHA standard 29 CFR 1910.134, which states that: "Airline couplings shall be incompatible with other gas systems to prevent inadvertent servicing of airline respirators with non-respirable gases or oxygen." In Canada, refer to the requirements of CSA standard 2100.1. **Failure to do so may result in sickness or death.**
- There is no assurance that by using the W-2806, the filtered compressed air will meet breathing air requirements for respiratory protection. Your employer must provide breathing air that meets at least the requirements of the specification for Grade D breathing air as described in the Compressed Gas Association Specification G-7.1 in the United States. In Canada, refer to CSA standard 2100.1, table 1 for the quality of compressed breathing air. **Always verify the compressed air meets these requirements. Failure to do so may result in sickness or death.**
- Dirt, oil and water vapors trapped or filtered out, may contain downstream in concentrated form and adversely affect the performance of the respirator and may result in sickness or death.
- The user equipment described in these *User Instructions* must be in accordance with applicable health and safety standards. Respirator selection tables contained in such publications as OSHA 29 CFR 1910.134, CSA Standard Z94.4, or pursuant to the recommendations of an industrial hygienist or the appropriate regulatory authority.
- The employer must have a written respiratory program in place which is in accordance with the OSHA respiratory protection standard found in 29 CFR 1910.134 prior to using any respirator in Canada. See OSHA Standard Z94.4 for the requirements of the authority having jurisdiction in your region.
- Each person using this equipment must read and understand the information in these *User Instructions*. Use of this equipment by untrained or unqualified persons, or use that is not in accordance with these *User Instructions*, may adversely affect product performance and may result in sickness or death.
- Do not use for respiratory protection where atmospheric concentrations of contaminants are unknown or immediately dangerous to life or health (IDLH), unless used in conjunction with a back-up escape system or a self-contained breathing apparatus/supplied air respirator (CSA/SABA). **Failure to do so may result in sickness or death.**
- Always turn off air supply and bleed air pressure before disassembling the filter and regulator panel or serious injury could result.
- Always supply piping, fittings, and compressors must have the capacity to deliver sufficient air volume to operate each air regulating valve at the recommended pressure. **Failure to do so may result in sickness or death.**
- Never alter or modify this assembly. Do not use if any parts are missing or damaged. **Failure to do so may result in sickness or death.**

98-0090-0098-5, 2  
34-5717-2394-2

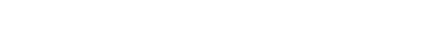
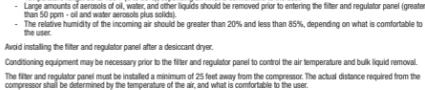
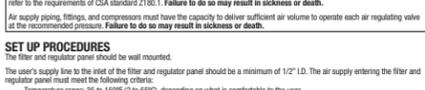
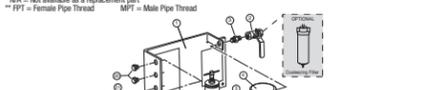
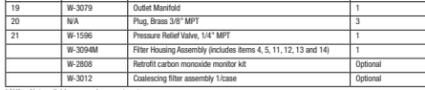
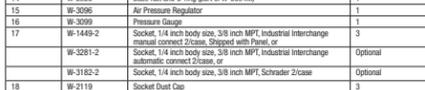
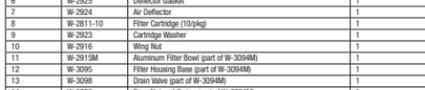
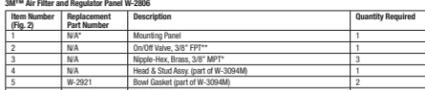
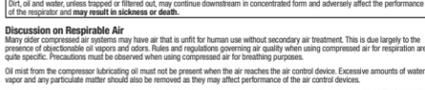
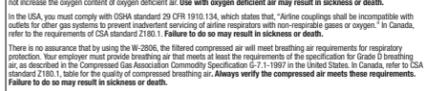
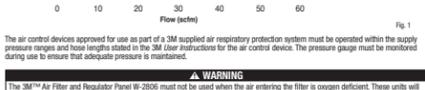
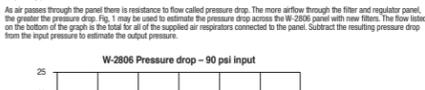
## Limitations of Use

- Leave the contaminated area immediately if any of the following conditions occur:
- Any part of the system becomes damaged.
  - Air flow into the respirator decreases or stops.
  - Breathing becomes difficult.
  - You feel dizzy or your vision is impaired.
  - You taste or smell contaminants.
  - Your face, eyes, nose or mouth become(s) irritated.
  - You suspect that the concentration of contaminants may have reached levels at which the respirator may no longer provide adequate protection.

## General Description

- A 3M™ Air Filter and Regulator Panel, W-2806 will operate as follows (Fig. 1).
- Air enters the panel through the **Air Inlet-Outlet Valve (A)**. When the On/Off Valve is down, airflow is restricted from entering the filter assembly. When the On/Off Valve is up, air flows freely to the filter assembly.
  - The **filter assembly (B)** reduces the amount of particles that may be present in the compressed air system, including water and oil mist. The treated carbon filter material traps and holds any benzene, toluene or light-hydrocarbon vapors.
  - Water and oil condensed by the filtering process is removed by opening the **manual drain valve (C)** on the bottom of the filter bowl.
  - The air is then passed through the **regulator (D)**, where the pressure is adjusted to the NIOSH approved pressure range for the compressed air system being used. The locking nut on the **adjustment line (E)** may be tightened to prevent accidental adjustment of the outlet pressure.
  - The filtered and regulated air can now be sent to the outlet ports or to the optional carbon monoxide sampling port (F). This plug may be removed to secure a sampling line kit as a CO monitor. This will provide continuous, minute monitoring of the carbon monoxide level in the air.
  - Next, the air is directed to the quick-disconnect outlets where the NIOSH approved compressed air hose(s) are secured to the panel. **These industrial interchange female sockets do not meet the requirements of CSA standard 2100.1.** OSHA requires that these female couplings be incompatible with outlets for other gas systems to prevent inadvertent servicing of air respirators with nonrespirable gases or oxygen. 3M offers an optional quick-disconnect design for this purpose.
  - The final component of the panel, the **pressure relief valve (G)**, prevents pressure at the hose connection from exceeding 105 psig (5.5 barg).

The air control devices approved for use as part of a 3M supplied respiratory protection system must be operated within the supply pressure ranges and hose lengths stated in the 3M *User Instructions* for the air control device. The pressure gauge must be monitored regularly to ensure that adequate pressure is maintained.



## OPERATING INSTRUCTIONS

**▲ WARNING**  
Use of equipment described in these *User Instructions* must be in accordance with applicable health and safety standards, respirator selection tables contained in such publications as OSHA 29 CFR 1910.134, CSA Standard Z94.4, or pursuant to the recommendations of an industrial hygienist or the appropriate regulatory authority.

The employer must have a written respiratory program in place which is in accordance with the OSHA respiratory protection standard found in 29 CFR 1910.134 prior to using any respirator in Canada. Follow OSHA Standard Z94.4 or the requirements of the authority having jurisdiction in your region.

Each person using this equipment must read and understand the information in these *User Instructions*. Use of this equipment by untrained or unqualified persons, or use that is not in accordance with these *User Instructions*, may adversely affect product performance and may result in sickness or death.

Do not use for respiratory protection when atmospheric concentrations of contaminants are unknown or immediately dangerous to life or health (IDLH), unless used in conjunction with a back-up escape system or a self-contained breathing apparatus/supplied air respirator (CSA/SABA). **Failure to do so may result in sickness or death.**

To meet NIOSH requirement 42 CFR 84, subpart 84.150 for minimum and maximum airflow (4-15 cfm, 113-425 lpm), the air control valves approved for use with the 3M respirators must be operated within the supply pressure ranges and hose lengths stated in their *User Instructions*. **Failure to do so may adversely affect respirator performance and result in sickness or death.**

Leave work areas immediately if:

- Any part of the system becomes damaged.
- Air flow into the respirator decreases or stops.
- Breathing becomes difficult.
- You feel dizzy or your vision is impaired.
- You taste or smell contaminants.
- Your face, eyes, nose or mouth become(s) irritated.
- You suspect that the concentration of contaminants may have reached levels at which the respirator may no longer provide adequate protection.

The following instructions are intended to serve as a guideline for the use of the 3M™ Air Filter and Regulator Panel W-2806. It is not to be operated in a hazardous use. It is intended to replace the policy and procedures for each facility. If you have any doubts about the applicability of the equipment to your job situation, consult an industrial hygienist or contact 3M PSD Technical Service toll free in US, 1-800-243-4630 or in Canada, call technical service at 1-800-267-4414.

## 3M™ Air Filter and Regulator W-2806

Remove any volume of regulation from supplied air line prior to connecting the system. Purge air through the system for a minimum of the (5) minutes on initial start-up.

**NOTE:** If excessive volume is present, install a separate coalescing prefilter such as the 3M™ Coalescing Filter Assembly W-3012 prior to the system filter.

Connect the inlet air supply and outlet compressed air hoses to the panel.

The pressure and set the regulator to the appropriate pressure required by the respirator air control device.

## REPLACEMENT PART INSTRUCTIONS

**▲ WARNING**  
Always turn off air supply and bleed air pressure before disassembling the filter and regulator panel or serious injury could result. Never alter or modify this assembly. Do not use if any parts are missing or damaged. **Failure to do so may result in sickness or death.**

### Filter Replacement

Presence of filter replacement will vary depending on rate of use, and the quality of air applied to the filter and regulator panel. Daily examination of the filter is recommended until a change schedule can be established.

The filter should be replaced if any of the following occur:

- The filter is damaged.
- The filter color begins to darken or appears oily.
- There is a drop in the pressure reading on the regulator gauge (at normal use conditions and the required pressure cannot be delivered to the respirator).
- There is a noticeable objectionable odor or taste inside the respirator.

### To Remove the Filter

- Turn the On/Off Valve handle to the "down," "OFF" position.
- Open the drain valve, W-3098 at the bottom of the Filter Housing Base, W-3095 to bleed the pressure down to zero.
- Remove the Socket, W-2921, or W-2922, or W-2923, or W-2924, or W-2925, or W-2926, or W-2927, or W-2928, or W-2929, or W-2930, or W-2931, or W-2932, or W-2933, or W-2934, or W-2935, or W-2936, or W-2937, or W-2938, or W-2939, or W-2940, or W-2941, or W-2942, or W-2943, or W-2944, or W-2945, or W-2946, or W-2947, or W-2948, or W-2949, or W-2950, or W-2951, or W-2952, or W-2953, or W-2954, or W-2955, or W-2956, or W-2957, or W-2958, or W-2959, or W-2960, or W-2961, or W-2962, or W-2963, or W-2964, or W-2965, or W-2966, or W-2967, or W-2968, or W-2969, or W-2970, or W-2971, or W-2972, or W-2973, or W-2974, or W-2975, or W-2976, or W-2977, or W-2978, or W-2979, or W-2980, or W-2981, or W-2982, or W-2983, or W-2984, or W-2985, or W-2986, or W-2987, or W-2988, or W-2989, or W-2990, or W-2991, or W-2992, or W-2993, or W-2994, or W-2995, or W-2996, or W-2997, or W-2998, or W-2999, or W-3000, or W-3001, or W-3002, or W-3003, or W-3004, or W-3005, or W-3006, or W-3007, or W-3008, or W-3009, or W-3010, or W-3011, or W-3012, or W-3013, or W-3014, or W-3015, or W-3016, or W-3017, or W-3018, or W-3019, or W-3020, or W-3021, or W-3022, or W-3023, or W-3024, or W-3025, or W-3026, or W-3027, or W-3028, or W-3029, or W-3030, or W-3031, or W-3032, or W-3033, or W-3034, or W-3035, or W-3036, or W-3037, or W-3038, or W-3039, or W-3040, or W-3041, or W-3042, or W-3043, or W-3044, or W-3045, or W-3046, or W-3047, or W-3048, or W-3049, or W-3050, or W-3051, or W-3052, or W-3053, or W-3054, or W-3055, or W-3056, or W-3057, or W-3058, or W-3059, or W-3060, or W-3061, or W-3062, or W-3063, or W-3064, or W-3065, or W-3066, or W-3067, or W-3068, or W-3069, or W-3070, or W-3071, or W-3072, or W-3073, or W-3074, or W-3075, or W-3076, or W-3077, or W-3078, or W-3079, or W-3080, or W-3081, or W-3082, or W-3083, or W-3084, or W-3085, or W-3086, or W-3087, or W-3088, or W-3089, or W-3090, or W-3091, or W-3092, or W-3093, or W-3094, or W-3095, or W-3096, or W-3097, or W-3098, or W-3099, or W-3100, or W-3101, or W-3102, or W-3103, or W-3104, or W-3105, or W-3106, or W-3107, or W-3108, or W-3109, or W-3110, or W-3111, or W-3112, or W-3113, or W-3114, or W-3115, or W-3116, or W-3117, or W-3118, or W-3119, or W-3120, or W-3121, or W-3122, or W-3123, or W-3124, or W-3125, or W-3126, or W-3127, or W-3128, or W-3129, or W-3130, or W-3131, or W-3132, or W-3133, or W-3134, or W-3135, or W-3136, or W-3137, or W-3138, or W-3139, or W-3140, or W-3141, or W-3142, or W-3143, or W-3144, or W-3145, or W-3146, or W-3147, or W-3148, or W-3149, or W-3150, or W-3151, or W-3152, or W-3153, or W-3154, or W-3155, or W-3156, or W-3157, or W-3158, or W-3159, or W-3160, or W-3161, or W-3162, or W-3163, or W-3164, or W-3165, or W-3166, or W-3167, or W-3168, or W-3169, or W-3170, or W-3171, or W-3172, or W-3173, or W-3174, or W-3175, or W-3176, or W-3177, or W-3178, or W-3179, or W-3180, or W-3181, or W-3182, or W-3183, or W-3184, or W-3185, or W-3186, or W-3187, or W-3188, or W-3189, or W-3190, or W-3191, or W-3192, or W-3193, or W-3194, or W-3195, or W-3196, or W-3197, or W-3198, or W-3199, or W-3200, or W-3201, or W-3202, or W-3203, or W-3204, or W-3205, or W-3206, or W-3207, or W-3208, or W-3209, or W-3210, or W-3211, or W-3212, or W-3213, or W-3214, or W-3215, or W-3216, or W-3217, or W-3218, or W-3219, or W-3220, or W-3221, or W-3222, or W-3223, or W-3224, or W-3225, or W-3226, or W-3227, or W-3228, or W-3229, or W-3230, or W-3231, or W-3232, or W-3233, or W-3234, or W-3235, or W-3236, or W-3237, or W-3238, or W-3239, or W-3240, or W-3241, or W-3242, or W-3243, or W-3244, or W-3245, or W-3246, or W-3247, or W-3248, or W-3249, or W-3250, or W-3251, or W-3252, or W-3253, or W-3254, or W-3255, or W-3256, or W-3257, or W-3258, or W-3259, or W-3260, or W-3261, or W-3262, or W-3263, or W-3264, or W-3265, or W-3266, or W-3267, or W-3268, or W-3269, or W-3270, or W-3271, or W-3272, or W-3273, or W-3274, or W-3275, or W-3276, or W-3277, or W-3278, or W-3279, or W-3280, or W-3281, or W-3282, or W-3283, or W-3284, or W-3285, or W-3286, or W-3287, or W-3288, or W-3289, or W-3290, or W-3291, or W-3292, or W-3293, or W-3294, or W-3295, or W-3296, or W-3297, or W-3298, or W-3299, or W-3300, or W-3301, or W-3302, or W-3303, or W-3304, or W-3305, or W-3306, or W-3307, or W-3308, or W-3309, or W-3310, or W-3311, or W-3312, or W-3313, or W-3314, or W-3315, or W-3316, or W-3317, or W-3318, or W-3319, or W-3320, or W-3321, or W-3322, or W-3323, or W-3324, or W-3325, or W-3326, or W-3327, or W-3328, or W-3329, or W-3330, or W-3331, or W-3332, or W-3333, or W-3334, or W-3335, or W-3336, or W-3337, or W-3338, or W-3339, or W-3340, or W-3341, or W-3342, or W-3343, or W-3344, or W-3345, or W-3346, or W-3347, or W-3348, or W-3349, or W-3350, or W-3351, or W-3352, or W-3353, or W-3354, or W-3355, or W-3356, or W-3357, or W-3358, or W-3359, or W-3360, or W-3361, or W-3362, or W-3363, or W-3364, or W-3365, or W-3366, or W-3367, or W-3368, or W-3369, or W-3370, or W-3371, or W-3372, or W-3373, or W-3374, or W-3375, or W-3376, or W-3377, or W-3378, or W-3379, or W-3380, or W-3381, or W-3382, or W-3383, or W-3384, or W-3385, or W-3386, or W-3387, or W-3388, or W-3389, or W-3390, or W-3391, or W-3392, or W-3393, or W-3394, or W-3395, or W-3396, or W-3397, or W-3398, or W-3399, or W-3400, or W-3401, or W-3402, or W-3403, or W-3404, or W-3405, or W-3406, or W-3407, or W-3408, or W-3409, or W-3410, or W-3411, or W-3412, or W-3413, or W-3414, or W-3415, or W-3416, or W-3417, or W-3418, or W-3419, or W-3420, or W-3421, or W-3422, or W-3423, or W-3424, or W-3425, or W-3426, or W-3427, or W-3428, or W-3429, or W-3430, or W-3431, or W-3432, or W-3433, or W-3434, or W-3435, or W-3436, or W-3437, or W-3438, or W-3439, or W-3440, or W-3441, or W-3442, or W-3443, or W-3444, or W-3445, or W-3446, or W-3447, or W-3448, or W-3449, or W-3450, or W-3451, or W-3452, or W-3453, or W-3454, or W-3455, or W-3456, or W-3457, or W-3458, or W-3459, or W-3460, or W-3461, or W-3462, or W-3463, or W-3464, or W-3465, or W-3466, or W-3467, or W-3468, or W-3469, or W-3470, or W-3471, or W-3472, or W-3473, or W-3474, or W-3475, or W-3476, or W-3477, or W-3478, or W-3479, or W-3480, or W-3481, or W-3482, or W-3483, or W-3484, or W-3485, or W-3486, or W-3487, or W-3488, or W-3489, or W-3490, or W-3491, or W-3492, or W-3493, or W-3494, or W-3495, or W-3496, or W-3497, or W-3498, or W-3499, or W-3500, or W-3501, or W-3502, or W-3503, or W-3504, or W-3505, or W-3506, or W-3507, or W-3508, or W-3509, or W-3510, or W-3511, or W-3512, or W-3513, or W-3514, or W-3515, or W-3516, or W-3517, or W-3518, or W-3519, or W-3520, or W-3521, or W-3522, or W-3523, or W-3524, or W-3525, or W-3526, or W-3527, or W-3528, or W-3529, or W-3530, or W-3531, or W-3532, or W-3533, or W-3534, or W-3535, or W-3536, or W-3537, or W-3538, or W-3539, or W-3540, or W-3541, or W-3542, or W-3543, or W-3544, or W-3545, or W-3546, or W-3547, or W-3548, or W-3549, or W-3550, or W-3551, or W-3552, or W-3553, or W-3554, or W-3555, or W-3556, or W-3557, or W-3558, or W-3559, or W-3560, or W-3561, or W-3562, or W-3563, or W-3564, or W-3565, or W-3566, or W-3567, or W-3568, or W-3569, or W-3570, or W-3571, or W-3572, or W-3573, or W-3574, or W-3575, or W-3576, or W-3577, or W-3578, or W-3579, or W-3580, or W-3581, or W-3582, or W-3583, or W-3584, or W-3585, or W-3586, or W-3587, or W-3588, or W-3589, or W-3590, or W-3591, or W-3592, or W-3593, or W-3594, or W-3595, or W-3596, or W-3597, or W-3598, or W-3599, or W-3600, or W-3601, or W-3602, or W-3603, or W-3604, or W-3605, or W-3606, or W-3607, or W-3608, or W-3609, or W-3610, or W-3611, or W-3612, or W-3613, or W-3614, or W-3615, or W-3616, or W-3617, or W-3618, or W-3619, or W-3620, or W-3621, or W-3622, or W-3623, or W-3624, or W-3625, or W-3626, or W-3627, or W-3628, or W-3629, or W-3630, or W-3631, or W-3632, or W-3633, or W-3634, or W-3635, or W-3636, or W-3637, or W-3638, or W-3639, or W-3640, or W-3641, or W-3642, or W-3643, or W-3644, or W-3645, or W-3646, or W-3647, or W-3648, or W-3649, or W-3650, or W-3651, or W-3652, or W-3653, or W-3654, or W-3655, or W-3656, or W-3657, or W-3658, or W-3659, or W-3660, or W-3661, or W-3662, or W-3663, or W-3664, or W-3665, or W-3666, or W-3667, or W-3668, or W-3669, or W-3670, or W-3671, or W-3672, or W-3673, or W-3674, or W-3675, or W-3676, or W-3677, or W-3678, or W-3679, or W-3680, or W-3681, or W-3682, or W-3683, or W-3684, or W-3685, or W-3686, or W-3687, or W-3688, or W-3689, or W-3690, or W-3691, or W-3692, or W-3693, or W-3694, or W-3695, or W-3696, or W-3697, or W-3698, or W-3699, or W-3700, or W-3701, or W-3702, or W-3703, or W-3704, or W-3705, or W-3706, or W-3707, or W-3708, or W-3709, or W-3710, or W-3711, or W-3712, or W-3713, or W-3714, or W-3715, or W-3716, or W-3717, or W-3718, or W-3719, or W-3720, or W-3721, or W-3722, or W-3723, or W-3724, or W-3725, or W-3726, or W-3727, or W-3728, or W-3729, or W-3730, or W-3731, or W-3732, or W-3733, or W-3734, or W-3735, or W-



 Requester: Farrel Allen Creator: deZinnia_18727 File Name: 34871723945.indd Structure #: SS-42095 Date: 10/08/15	Printed Colors - Front: 
	Printed Colors - Back: 
	Match Colors:
Scale:  1 Inch	This artwork has been created as requested by 3M. 3M is responsible for the artwork AS APPROVED and assumes full responsibility for its correctness.